



MOLECULAR DIAGNOSTICS

# ONCOLOGY AND GENETICS

2021 Product Catalog





<b>ASR (Analyte Specific Reagent)</b>	<i>Analytical and performance characteristics are not established</i>
<b>CE (CE Marked)</b>	<i>Conformité Européenne</i>
<b>GPR (General Purpose Reagent)</b>	<i>For Laboratory use</i>
<b>RUO (Research Use Only)</b>	<i>Not for diagnostic use</i>
<b>IVD (In Vitro Diagnostics)</b>	

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# Abbott is transforming laboratory partnerships and productivity—today and into the future

As a leader in molecular diagnostics, Abbott is committed to providing solution-oriented offerings that enable labs to provide clinically actionable results, achieving measurably better healthcare performance. Abbott delivers innovations to help manage the most challenging diseases and laboratory demands.

Our commitment to improving clinical medicine is evident in the development and delivery of innovative systems and assay solutions that aid physicians in the diagnosis of disease, selection of therapies and monitoring of patients.

The product offerings in this catalog have been designed in partnership with laboratories, directly incorporating the feedback we've gathered from you. These options expand the Vysis FISH and Abbott RealTime portfolios, each aimed at increasing productivity and enabling customization of solution on a lab-by-lab basis.

In this product catalog, you will find a comprehensive list of our offering by technology. If you need more information, please visit our website's offering section: <https://www.molecular.abbott/int/en/products>





VISIT THE DIGITAL PRODUCT CATALOG AT:

<https://www.molecular.abbott/int/en/offerings/download-product-catalog>



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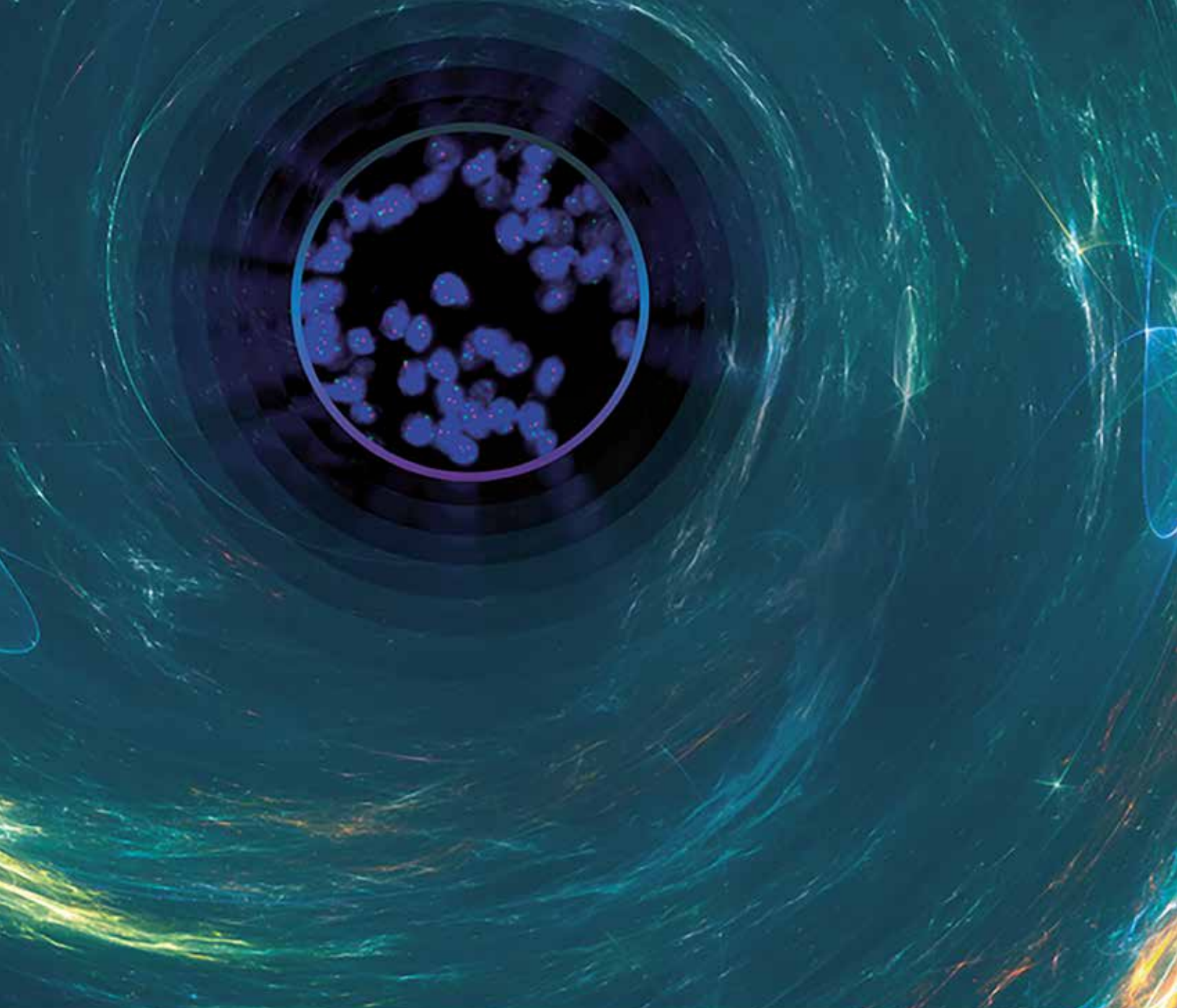
## **ORDERING INFORMATION:**

424	Ordering and Contact Information
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VYSIS  
IntelliFISH  
SOLUTION

Easier. Faster. Smarter. FISH redefined.  
Vysis IntelliFISH Solutions offers smart  
features with processing flexibility,  
simplified workflow and reduced inventory  
management to help reduce operating costs.



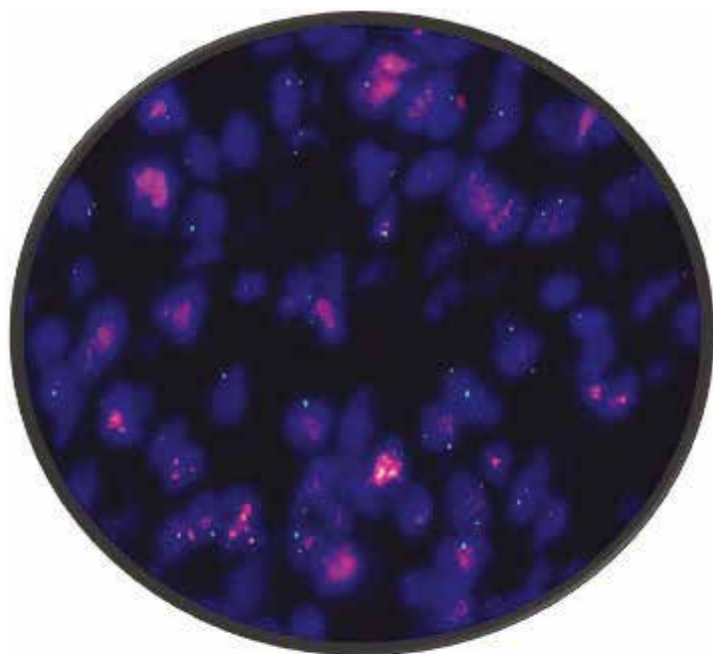
**4 components** that address all FISH needs from sample to result:



PRODUCT	PG
<b>VYSIS INTELLIFISH SOLUTION</b>	
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## Vysis IntelliFISH Hybridization Buffer



VYSIS  
**IntelliFISH**  
 SOLUTION

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis IntelliFISH Hybridization Buffer <b>(GPR)</b>	1 vial, 250 µL	08N87-001	00884999044715
Vysis IntelliFISH Hybridization Buffer <b>(GPR)</b>	5 vials, 250 µL	08N87-005	00884999044722
Vysis IntelliFISH Hybridization Buffer (1 Vial) <b>(CE)</b>	1 vial, 250 µL	08N87-010	00884999048744
Vysis IntelliFISH Hybridization Buffer (5 Vials) <b>(CE)</b>	5 vials, 250 µL	08N87-015	00884999048751

## PRODUCT DESCRIPTION

Vysis IntelliFISH Hybridization Buffer provides high quality results in a single shift.

- Delivers equal or better quality results\*
- Decreases time required to generate a result
- Allows labs flexibility – buffer can be used in single shift or overnight hybridizations without negatively affecting performance

To learn more about Vysis IntelliFISH please visit: <https://www.molecular.abbott/int/en/products/vysis-intellifish>

\* Abbott Data on File

# Vysis IntelliFISH Universal Pretreatment



VYSIS  
IntelliFISH  
SOLUTION

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis IntelliFISH Universal FFPE Tissue Pretreatment and Wash Reagents (GPR)	1 kit	08N85-005	00884999044210
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease – Manual processing (GPR)	5 vials, 75mg	08N85-010	00884999044227
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease – Automated processing (GPR)	1 vial, 750mg	08N85-015	00884999044234
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease (75 mg) Kit (CE)	5 vials, 75mg	08N85-083	00884999046825
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease (750 mg) Kit (CE)	1 vial, 750mg	08N85-084	00884999046832
Vysis IntelliFISH Universal FFPE Tissue Pretreatment and Wash Reagent Kit (CE)	1 kit	08N85-085	00884999046849

## PRODUCT DESCRIPTION

Vysis IntelliFISH Universal Pretreatment for Solid Tumors Provides a Standard Protocol with a Single Set of Reagents for FFPE Specimens:

- Delivers successful FISH performance across a diverse set of FFPE tissue types.
- Decreases time required to bring up new FFPE assays.
- Simplifies reagent inventory management.
- Works with both manual and VP 2000 protocols.

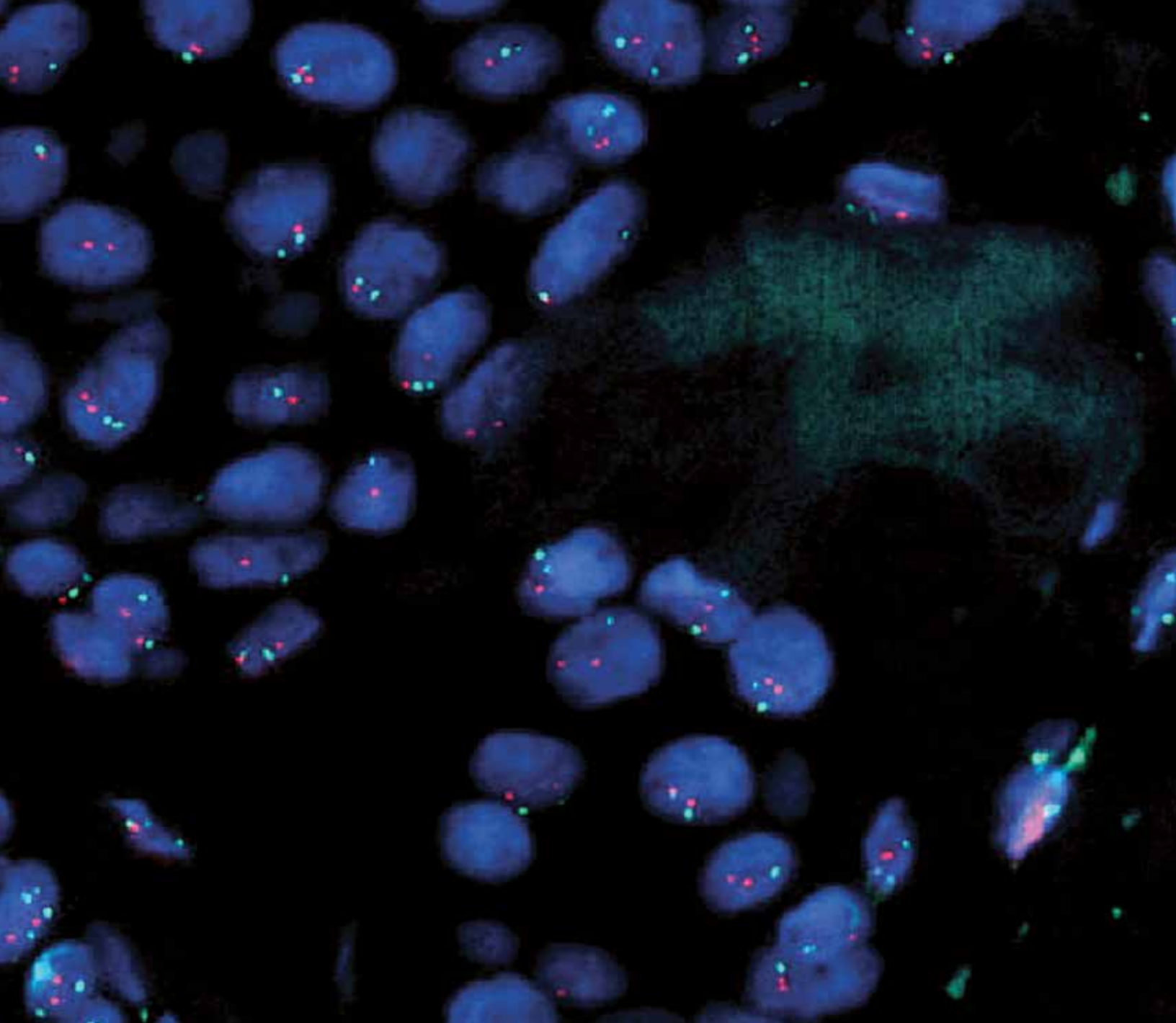
To learn more about Vysis IntelliFISH Universal Pretreatment please visit: <https://www.molecular.abbott/int/en/products/vysis-intellifish>

# VYSIS FISH PROBES: IVD PRODUCTS

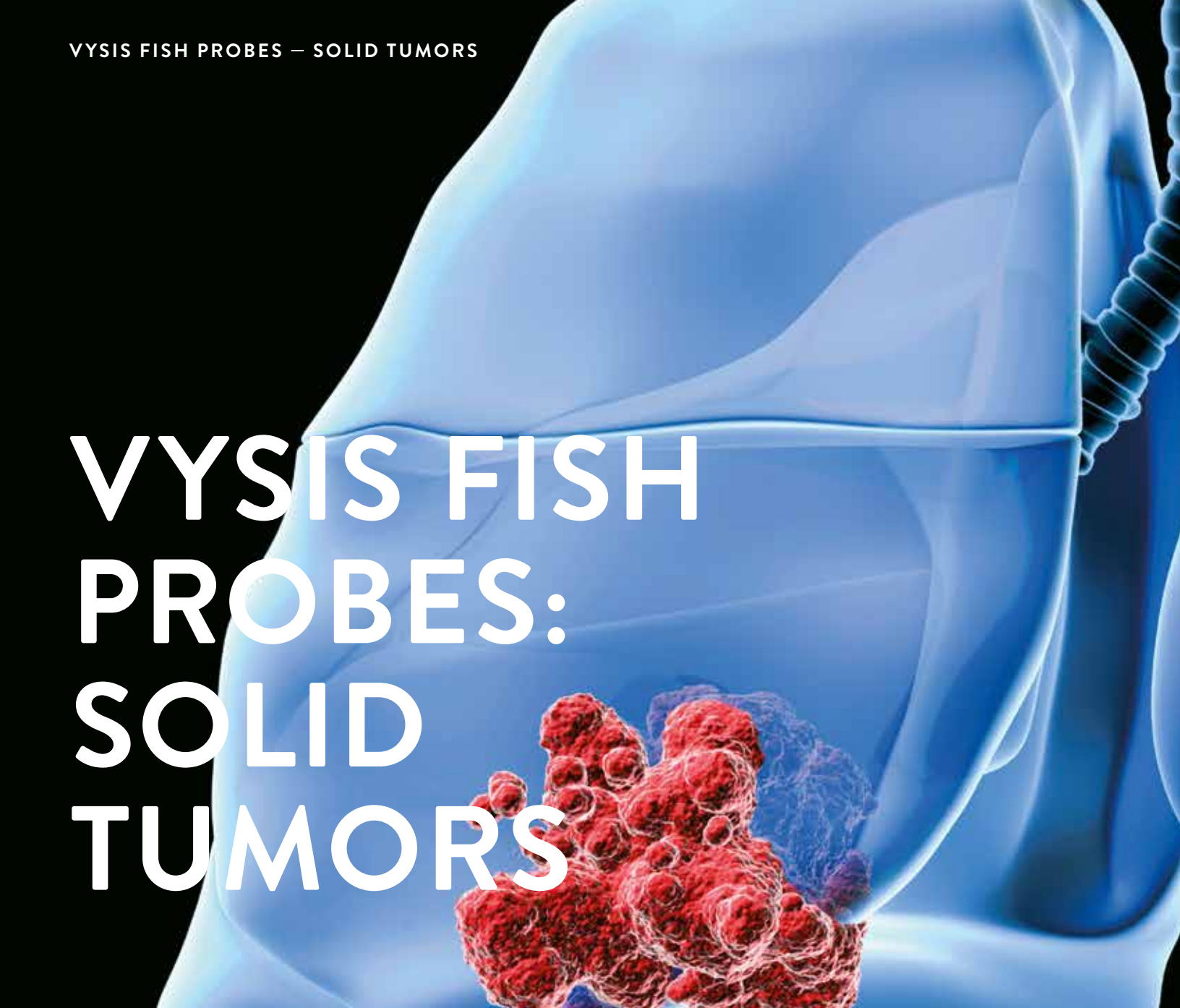
16 Solid Tumors

74 Hematology

196 Genetics







# VYSIS FISH PROBES: SOLID TUMORS

Accurate and reliable detection of genetic aberrations in solid tumors with DNA fluorescence in situ hybridization (FISH) probe technology is a powerful means to aid in diagnoses and treatment decisions.

Abbott offers a comprehensive line of direct-labeled Vysis DNA probes for solid tumors assessment. Single- and multi-color probe sets offer researchers and clinicians a variety of ways to identify chromosome or locus deletions, gains, or translocations that have been associated with specific types of solid tumors. These probes can be applied to a variety of sample types prepared for metaphase or interphase analysis.





**VYSIS FISH TECHNOLOGY FOR ONCOLOGY,  
CYTOLOGY, AND PATHOLOGY PROVIDES THE  
FOLLOWING ADVANTAGES:**

Specific high-intensity signals with direct-labeled probes

Low background for easy analysis

Rapid, convenient and easy-to-use assays

Many probes designed for gene amplification detection include internal control probes

Protocols that offer hybridization as quickly as two hours on the Thermobrite Denaturation and Hybridization System

Solid tumor probes have been optimized for paraffin-embedded tissues

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>BLADDER CANCER</b>				
UroVysion Bladder Cancer Kit (CE)	20 Assays	02J27-020	00884999002135	20
UroVysion Bladder Cancer Kit (CE)	100 Assays	02J27-099	00884999002197	20
UroVysion Bladder Cancer Kit (Japan Only) (IVD)	20 Assays	02J27-021	00884999048461	20
ProbeChek Control Slides for UroVysion Bladder Cancer Kit (CE)	3 Slides	02J27-010	00884999002111	20
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470	23
<b>BREAST CANCER</b>				
PathVysion HER-2 DNA Probe Kit II (CE)	20 Assays	06N46-030	00884999035867	24
PathVysion HER-2 DNA Probe Kit II (CE)	50 Assays	06N46-035	00884999035874	24
PathVysion HER-2 DNA Probe Kit II (CE)	100 Assays	06N46-036	00884999035881	24
ProbeChek Control Slides for PathVysion HER-2 DNA Probe Kit - Cut-off Control Slides (CE)	5 Slides	02J04-030	00884999001831	24
ProbeChek Control Slides for PathVysion HER-2 DNA Probe Kit - Normal Control Slides (CE)	5 Slides	02J05-030	00884999001855	24
Vysis LSI TOP2A/CEP 17 FISH Probe Kit (CE)	200 µL	03N89-020	00884999006270	26
Vysis LSI TOP2A / HER-2 / CEP 17 FISH Probe Kit (CE)	200 µL	03N90-020	00884999006287	27
Vysis ZNF217 SpectrumGold FISH Probe Kit (CE)	20 µL	05N15-020	00884999014602	28
Vysis ZNF217 SpectrumOrange FISH Probe Kit (CE)	20 µL	03N91-020	00884999006294	28
Vysis ZNF217 SpectrumRed FISH Probe Kit (CE)	10 µL	05N16-010	00884999014619	28
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256	30
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907	31
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470	32
<b>GLIOMAS</b>				
Vysis CDKN2A / CEP 9 FISH Probe Kit (CE)	20 µL	04N61-020	00884999009295	33
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (CE)	2 vials, 200 µl each	04N60-020	00884999009288	35
Vysis LSI PTEN/CEP 10 FISH Probe Kit (CE)	20 µL	04N62-020	00884999009301	37
<b>LUNG CANCER</b>				
Vysis ALK Break Apart FISH Probe Kit (CE)	20 Assays	06N38-023	00884999042766	39
Vysis ALK Break Apart FISH Probe Kit (CE)	50 Assays	06N38-050	00884999037205	39
ProbeChek ALK Negative Control Slides (CE)	5 slides	06N38-005	00884999025721	39
Vysis ProbeChek ALK Negative Control II (only use with 06N38-50) (CE)	5 slides	06N38-006	00884999038196	39

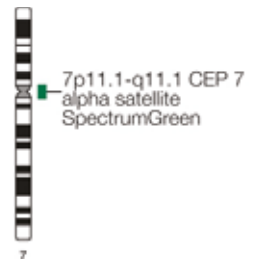
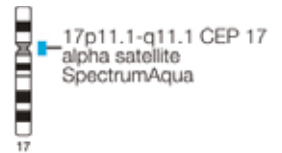
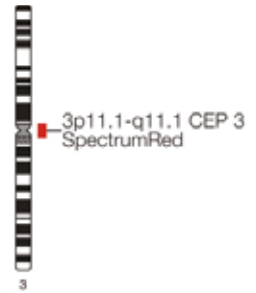
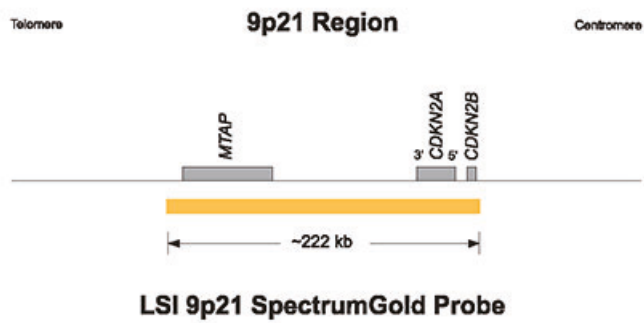
PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>LUNG CANCER</b>				
ProbeChek ALK Positive Control Slides (CE)	5 slides	06N38-010	00884999025738	39
Vysis Paraffin Pretreatment IV & Post-Hybridization Wash Buffer Kit (CE)	1 Kit	01N31-005	00884999000735	39
Vysis ROS-1 Break Apart FISH Probe Kit (CE)	10 Tests	08N29-021	00884999048485	41
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999025028	43
Vysis EGFR / CEP 7 FISH Probe Kit (CE)	20 µL	01N35-020	00884999000773	45
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256	46
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907	47
Vysis MET SpectrumRed FISH Probe Kit (CE)	20 µL	06N05-020	00884999024984	48
<b>MELANOMA</b>				
Vysis Melanoma FISH Probe Kit (CE)	200 µL	01N89-020	00884999001312	49
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999025028	51
<b>OTHER SOLID TUMOR CANCERS</b>				
Vysis EGFR / CEP 7 FISH Probe Kit (CE)	20 µL	01N35-020	00884999000773	53
Vysis Esophageal FISH Probe Kit (CE)	20 µL	04N19-020	00884999008021	55
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555	57
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470	58
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256	59
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907	60
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999000773	61
Vysis MET SpectrumRed FISH Probe Kit (CE)	20 µL	06N05-020	00884999024984	63
Vysis CDKN2A / CEP 9 FISH Probe Kit (CE)	20 µL	04N61-020	00884999009295	64
<b>SARCOMAS</b>				
Vysis DDIT3 Break Apart FISH Probe Kit (CE)	20 µL	03N57-020	00884999005778	66
Vysis FOXO1 Break Apart FISH Probe Kit (CE)	20 µL	03N60-020	00884999005808	68
Vysis LSI EWSR1 Break Apart FISH Probe Kit (CE)	20 µL	03N59-020	00884999005792	69
Vysis LSI FUS Break Apart FISH Probe Kit (CE)	20 µL	03N58-020	00884999005785	71
Vysis MDM2/CEP 12 FISH Probe Kit (CE)	10 µL	01N15-010	00884999035362	72
Vysis LSI SS18 Break Apart FISH Probe Kit (CE)	20 µL	03N61-020	00884999005815	73

Bladder Cancer

UroVysion Bladder Cancer Kit

# UROVYSION

## BLADDER CANCER KIT



PRODUCT	QUANTITY	ORDER #	GTIN
UroVysion Bladder Cancer Kit (CE)	20 Assays	02J27-020	00884999002135
UroVysion Bladder Cancer Kit (CE)	100 Assays	02J27-099	00884999002197
UroVysion Bladder Cancer Kit (Japan Only) (IVD)	20 Assays	02J27-021	00884999048461
ProbeChek Control Slides for UroVysion Bladder Cancer Kit (CE)	3 Slides	02J27-010	00884999002111

## PRODUCT DESCRIPTION (CE)

### Urovysion Kit Contents

The UroVysion Bladder Cancer Kit probes are directly labeled with one of the Vysis fluorophores; SpectrumRed, SpectrumGreen, SpectrumAqua or SpectrumGold.

The UroVysion Bladder Cancer Kit consists of:

- Three alpha-satellite repeat sequence probes; CEP 3 SpectrumRed, CEP 7 SpectrumGreen, and CEP 17 SpectrumAqua that hybridize to the centromere regions of chromosomes 3, 7, and 17, respectively. In addition, a unique sequence probe, LSI p16 (9p21) SpectrumGold, is included that hybridizes to the p16 gene at 9p21.
- This probe set is premixed in hybridization buffer.

## INDICATIONS AND LIMITATIONS OF USE

### Intended Use

The UroVysion Bladder Cancer Kit (UroVysion Kit) is designed to detect aneuploidy for chromosomes 3, 7, 17, and loss of the 9p21 locus via fluorescence in situ hybridization (FISH) in urine specimens from persons with hematuria suspected of having bladder cancer. Results from the UroVysion Kit are intended for use, in conjunction with and not in lieu of current standard diagnostic procedures, as an aid for initial diagnosis of bladder carcinoma in patients with hematuria and subsequent monitoring for tumor recurrence in patients previously diagnosed with bladder cancer.

### Limitations

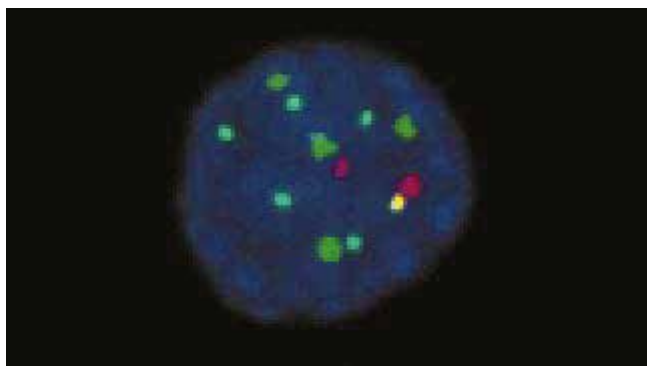
1. The UroVysion Kit has been optimized for identifying and quantitating chromosomes 3, 7, and 17, and locus 9p21 in human urine specimens.
2. The performance of the UroVysion Kit was validated using the procedures provided in this package insert only. Modifications to these procedures may alter the performance of the assay.
3. The clinical interpretation of any test results should be evaluated within the context of the patient's medical history and other diagnostic laboratory test results.
4. UroVysion assay results may not be informative if the specimen quality and/or specimen slide preparation is inadequate, e.g., the presence of excessive granulocytes or massive bacteruria.
5. Technologists performing the UroVysion signal enumeration must be capable of visually distinguishing between the red and green signals.
6. Positive UroVysion results in the absence of other signs or symptoms of bladder cancer recurrence may be evidence of other urinary tract related cancers, e.g., ureter, urethra, renal, and/or prostate in males, and further patient follow-up is justified. In a study conducted on patients with hematuria (see "Symptomatic Patients: Performance vs. Standard of Care" for details on this clinical study) 3 patients, whose initial bladder cystoscopy was negative, were subsequently diagnosed with renal cancer within 6 months of this initial study visit. All 3 of these cases were positive by UroVysion.
7. If UroVysion results are negative but standard clinical or diagnostic tests (e.g., cytology, cystoscopy) are positive, the standard procedures take precedence over the UroVysion test. Although the UroVysion Kit was designed to detect genetic changes associated with most bladder cancers, there will be some bladder cancers whose genetic changes cannot be detected by the UroVysion test.
8. Ta stage solitary tumors smaller than 5mm could not be detected by UroVysion FISH. UroVysion FISH results are dependent on the amount of tumor cells that are deposited on the slide.

**CAUTION:** United States Federal law restricts this device to sale and distribution to or on the order of a physician or to a clinical laboratory; use is restricted to, by, or on the order of a physician.

To learn more about UroVysion please visit: <https://www.molecular.abbott/int/en/products/oncology/urovysion-bladder-cancer-kit>

## RESULTS OF HYBRIDIZATION

Determination of results is conducted by enumeration of CEP 3, 7 and 17, and LSI p16 (9p21) signals through microscopic examination of the nucleus. Hybridization is viewed using a fluorescence microscope equipped with appropriate excitation and emission filters allowing visualization of the red, green, aqua, and gold fluorescent signals. Samples hybridized with the UroVysion Bladder Cancer Kit will exhibit signals indicative of the copy number of chromosomes 3, 7, and 17 and of the p16 gene. The UroVysion Bladder Cancer Kit can be used with the Vysis VP 2000™ Processor for specimen pretreatment and the ThermoBrite™ Denaturation/ Hybridization unit for modular automation.



**Normal Hybridization:** Aneusomic interphase cell obtained from a sample showing two copies of chromosome 3 (red), four copies of chromosome 7 (green), five copies of chromosome 17 (aqua) and one copy of p16 gene (gold) after the UroVysion Bladder Cancer Kit (UroVysion Kit) hybridization.

## INTENDED USE (JAPAN)

UroVysion Bladder Cancer Kit is intended to be used for detection of aneuploidy for chromosome 3, 7, 17 and loss of the 9p21 locus, as an aid for diagnosis of recurrence of bladder cancer.



Bladder Cancer

Vysis LSI AURKA SpectrumGold FISH Probe Kit



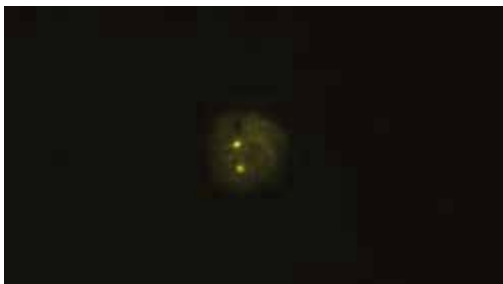
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470

PRODUCT DESCRIPTION

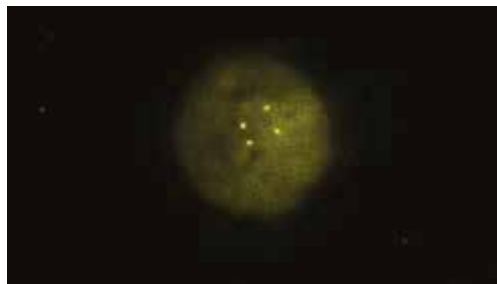
The Vysis LSI AURKA SpectrumGold FISH Probe Kit is designed to detect the copy number of Aurora Kinase A (AURKA) locus localized in chromosome 20 at the 20q13.2 band via fluorescence in situ hybridization (FISH) in human urine specimens.

The approximately 650 Kb SpectrumGold AURKA (20q13.2) probe encompasses the entire 23 Kb AURKA gene on chromosome 20 and adjacent regions, extending from a point centromeric of the AURKA gene to a point telomeric of the AURKA gene.

RESULTS OF HYBRIDIZATION



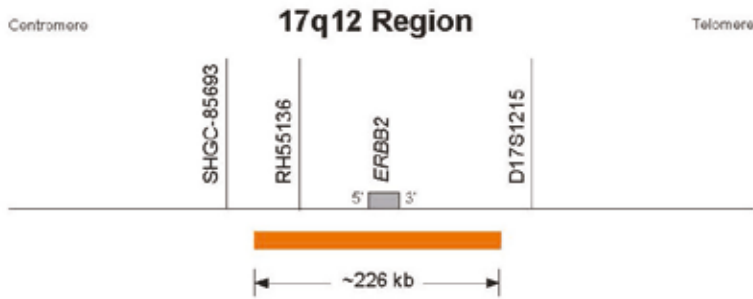
**Normal Hybridization:** In a nucleus with a normal copy number of the AURKA gene, two gold signals will be observed.



**Abnormal Hybridization:** Abnormal copy number of the AURKA gene is indicated by more than two copies of the gold probe signal. Disregard nuclei with less than 2 copies of the gold probe signal.

Breast Cancer

# PathVysion HER-2 DNA Probe Kit II



## LSI HER-2/*neu* (ERBB2) SpectrumOrange Probe

PRODUCT	QUANTITY	ORDER #	GTIN
PathVysion HER-2 DNA Probe Kit II (CE)	20 Assays	06N46-030	00884999035867
PathVysion HER-2 DNA Probe Kit II (CE)	50 Assays	06N46-035	00884999035874
PathVysion HER-2 DNA Probe Kit II (CE)	100 Assays	06N46-036	00884999035881
ProbeChek Control Slides for PathVysion HER-2 DNA Probe Kit - Cut-off Control Slides (CE)	5 Slides	02J04-030	00884999001831
ProbeChek Control Slides for PathVysion HER-2 DNA Probe Kit - Normal Control Slides (CE)	5 Slides	02J05-030	00884999001855

## PRODUCT DESCRIPTION

The PathVysion HER-2 DNA Probe Kit II (PathVysion Kit II) is designed to detect amplification of the HER-2/neu gene via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin-embedded human breast and gastric cancer tissue specimens.

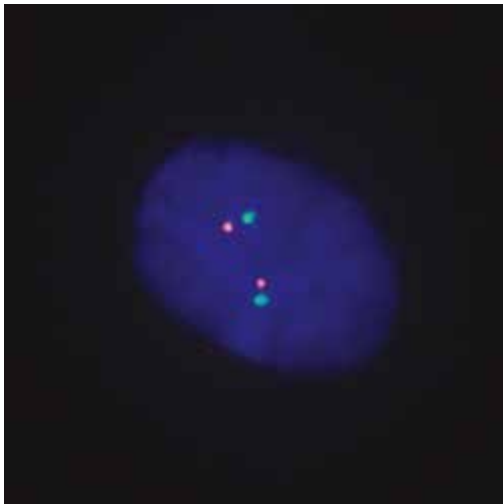
For breast cancer indication, results from the PathVysion Kit II are intended for use as an adjunct to existing clinical and pathologic information currently used as prognostic factors in stage II, node-positive breast cancer patients. The PathVysion Kit II is further indicated as an aid to predict disease-free and overall survival in patients with stage II, node-positive breast cancer treated with adjuvant cyclophosphamide, doxorubicin and 5-fluorouracil (CAF) chemotherapy. The PathVysion Kit II is indicated as an aid in the assessment of breast cancer patients for whom HERCEPTIN (trastuzumab) treatment is being considered (see HERCEPTIN package insert). PathVysion 02J01 is available in some countries and does not contain the gastric indication.

To learn more about PathVysion HER-2 DNA Probe Kit II please visit: <https://www.molecular.abbott/int/en/products/oncology/pathvysion-her-2-dna-probe-kit-ii>

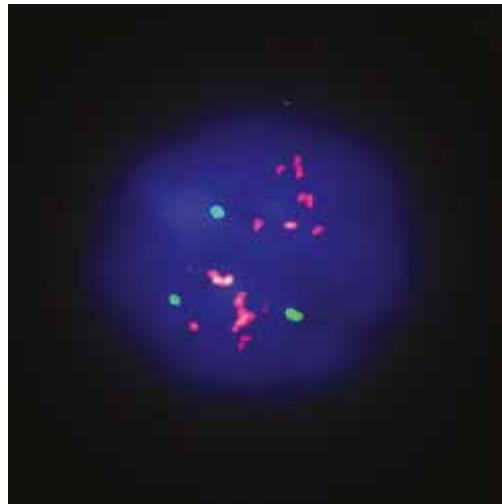
## RESULTS OF HYBRIDIZATION

PathVysion HER-2 DNA Probe Kit hybridized to breast tissue showing multiple copies of the HER-2 gene as represented by multiple orange signals. The ratio of orange to green probe signals is greater than 2.0 indicating HER-2 amplification.

Results on enumeration of 20 interphase nuclei from tumor cells per target are reported as the ratio of average HER-2/neu copy number to that of CEP 17. Our clinical study found that specimens with amplification showed a LSI HER-2/neu and CEP 17 signal ratio of greater than or equal to 2.0; normal specimens showed a ratio of less than 2.0. Results at or near the cut-off point (1.8-2.2) should be interpreted with caution.



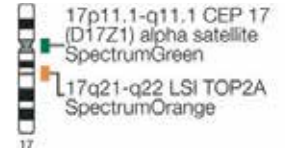
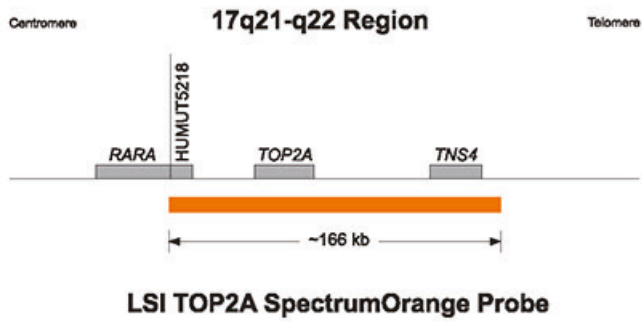
Normal Hybridization



Abnormal Hybridization

Breast Cancer

Vysis TOP2A / CEP 17 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TOP2A/CEP 17 FISH Probe Kit (CE)	200 µL	03N89-020	00884999006270

**PRODUCT DESCRIPTION**

The Vysis LSI TOP2A/CEP 17 FISH Probe Kit is intended to determine TOP2A and chromosome 17 copy numbers, and hence can distinguish TOP2A amplification and deletion from chromosome 17 aneusomy.

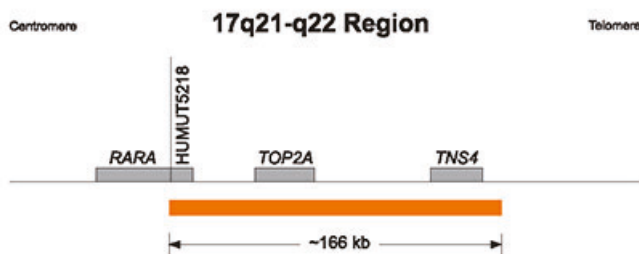
The Vysis LSI TOP2A SpectrumOrange/CEP 17 SpectrumGreen Probes vial contains a mixture of 2 probes. The TOP2A probe is a single approximately 166 kb unique sequence probe direct labeled in SpectrumOrange, that hybridizes to the 17q21-q22 region of chromosome 17 and includes the 30 kb topoisomerase II-α gene. The CEP 17 probe hybridizes to alpha satellite DNA on chromosome 17 (17p11.1-q11.1) and is directly labeled in SpectrumGreen. This probe set is premixed in hybridization buffer.

**RESULTS OF HYBRIDIZATION**

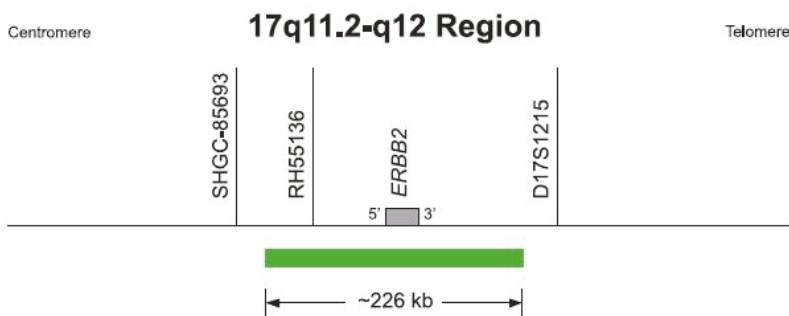
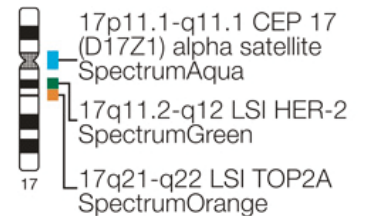
In a cell with the normal quantity (two copies) of the TOP2A gene, two orange signals will be observed. If amplification or deletion of the TOP2A gene has occurred, more or less than two signals will be present.

Breast Cancer

# Vysis TOP2A / HER-2 / CEP 17 FISH Probe Kit



**LSI TOP2A SpectrumOrange Probe**



**LSI HER-2 (ERBB2) SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TOP2A / HER-2 / CEP 17 FISH Probe Kit (CE)	200 µL	03N90-020	00884999006287

## PRODUCT DESCRIPTION

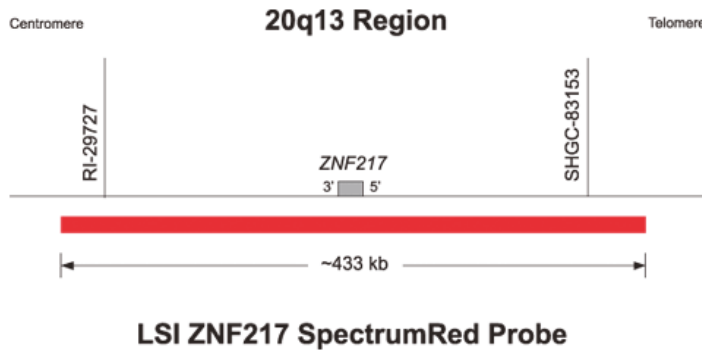
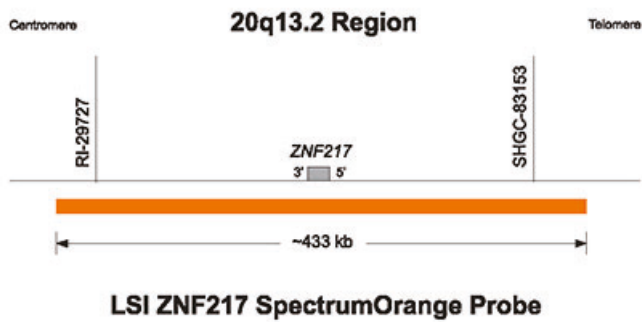
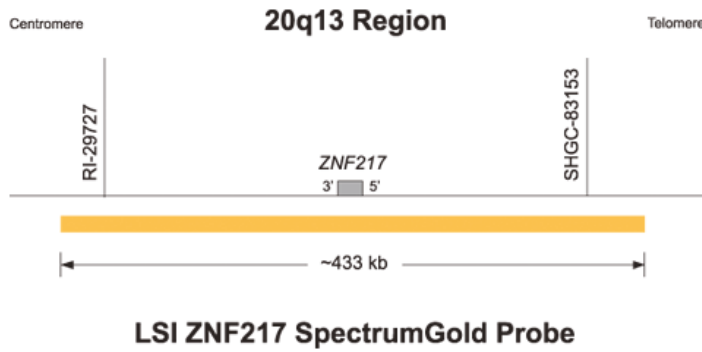
This FISH probe is intended to determine TOP2A, HER-2, and chromosome 17 copy numbers, and hence can distinguish TOP2A and HER-2 amplification and deletion from chromosome 17 aneusomy. The Vysis LSI TOP2A SpectrumOrange/HER-2 SpectrumGreen/CEP17 SpectrumAqua Probes vial contains a mixture of 3 probes premixed in Hybridization buffer. The TOP2A probe is a single approximately 166 kb (chr17:35754766-35920915; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) unique sequence probe direct labeled in SpectrumOrange, that hybridizes to the 17q21-q22 region of chromosome 17 and includes the 30 kb topoisomerase II- $\alpha$  gene. The HER-2 probe, which spans the entire HER-2 gene at 17q11.2-q12, is an ~226 kb unique sequence probe. This probe is labeled with SpectrumGreen. The CEP17 probe hybridizes to alpha satellite DNA on chromosome 17 (17p11.1-q11.1) and is directly labeled in SpectrumAqua. This probe set is premixed in hybridization buffer.

## RESULTS OF HYBRIDIZATION

LSI TOP2A/HER-2/CEP 17 Multi-color Probe: As with TOP2A and chromosome 17, a nucleus with a normal quantity (two copies) of HER-2 will appear with two green signals. Simultaneous enumeration of all three probes will reveal the copy number of each as well as the amplification or deletion status of TOP2A and HER-2 relative to chromosome 17 copy number. The ability to distinguish true gene amplification or deletion from aneusomy of chromosome 17 or nuclei truncation is an added benefit of this multi-color probe.

Breast Cancer

Vysis LSI SpectrumGold, SpectrumOrange, SpectrumRed FISH Probe Kits



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ZNF217 SpectrumGold FISH Probe Kit (CE)	20 µL	05N15-020	00884999014602
Vysis ZNF217 SpectrumOrange FISH Probe Kit (CE)	20 µL	03N91-020	00884999006294
Vysis ZNF217 SpectrumRed FISH Probe Kit (CE)	10 µL	05N16-010	00884999014619



## PRODUCT DESCRIPTION

**The Vysis LSI ZNF217 SpectrumGold Probe** is intended to determine copy number of ZNF217 on chromosome 20q13.2.

The ZNF217 gene is a candidate oncogene suggested to play a key role during neoplastic transformation. ZNF217 is located at 20q13, a region that is frequently amplified in a variety of tumor types. Amplification of ZNF217 in breast cancer is associated with aggressive tumor behavior and poor clinical prognosis. The Vysis LSI ZNF217 SpectrumOrange Probe was used in a study that indicated distinct differences in the role of genes known to be amplified in female breast cancer and their relevance for the pathogenesis of male breast cancer. FISH was performed on 128 male breast tumors using the Vysis LSI ZNF217 SpectrumOrange Probe in addition to other Vysis probes including, LSI HER-2, LSI CCND1, LSI MYC, and the corresponding centromeric probes. Another study used the Vysis LSI ZNF217 SpectrumOrange Probe to identify gain of ZNF217 as an important abnormality and prognostic factor in larynx tumorigenesis. For this study a tissue microarray consisting of 863 larynx carcinomas was analysed. The Vysis LSI ZNF217 SpectrumGold Probe is a single, approximately 433 kb, unique sequence probe direct labeled in SpectrumGold, that hybridizes to the 20q13.2 region of chromosome 20 and includes the 16.1 kb ZNF217 gene (chr20:51617017-51633114; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

**The Vysis LSI ZNF217 SpectrumOrange Probe** is intended to determine copy number of ZNF217 on chromosome 20q13.2.

The ZNF217 gene is a candidate oncogene suggested to play a key role during neoplastic transformation. ZNF217 is located at 20q13, a region that is frequently amplified in a variety of tumor types. Amplification of ZNF217 in breast cancer is associated with aggressive tumor behavior and poor clinical prognosis. The Vysis LSI ZNF217 (20q13.2) SpectrumOrange Probe was used in a study that indicated distinct differences in the role of genes known to be amplified in female breast cancer and their relevance for the pathogenesis of male breast cancer. FISH was performed on 128 male breast tumors using the Vysis SpectrumOrange LSI ZNF217 in addition to other Vysis probes including, LSI HER-2, LSI CCND1, LSI MYC, and the corresponding centromeric probes. Another study used the Vysis LSI ZNF217 (20q13.2) SpectrumOrange Probe to identify gain of ZNF217 as an important abnormality and prognostic factor in larynx tumorigenesis. For this study, a tissue microarray consisting of 863 larynx carcinomas was analysed. The Vysis LSI ZNF217 SpectrumOrange Probe is a single approximately 433 kb unique sequence probe direct labeled in SpectrumOrange, that hybridizes to the 20q13.2 region of chromosome 20 and includes the 16.1 kb ZNF217 gene.

**The Vysis LSI ZNF217 SpectrumRed Probe** is intended to determine copy number of ZNF217 on chromosome 20q13.2.

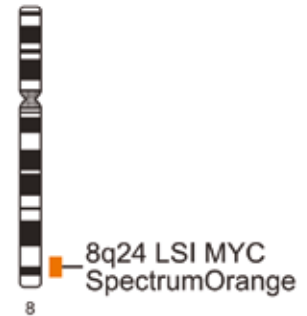
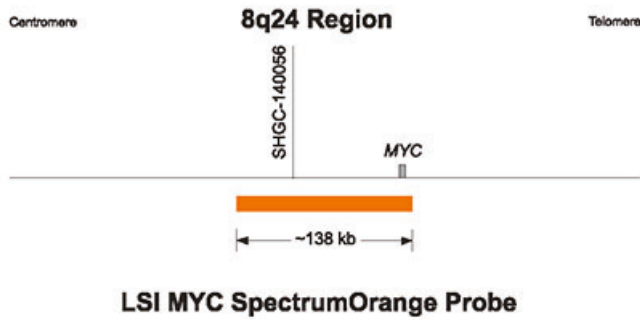
The ZNF217 gene is a candidate oncogene suggested to play a key role during neoplastic transformation. ZNF217 is located at 20q13, a region that is frequently amplified in a variety of tumor types. Amplification of ZNF217 in breast cancer is associated with aggressive tumor behavior and poor clinical prognosis. The Vysis LSI ZNF217 SpectrumOrange Probe was used in a study that indicated distinct differences in the role of genes known to be amplified in female breast cancer and their relevance for the pathogenesis of male breast cancer. Fluorescence in situ hybridization was performed on 128 male breast tumors using the Vysis LSI ZNF217 SpectrumOrange Probe in addition to other Vysis probes including LSI HER-2, LSI CCND1, LSI MYC, and the corresponding centromeric probes. Another study used the Vysis LSI ZNF217 SpectrumOrange Probe to identify gain of ZNF217 as an important abnormality and prognostic factor in larynx tumorigenesis. For this study, a tissue microarray consisting of 863 larynx carcinomas was analyzed. The Vysis LSI ZNF217 SpectrumRed Probe is a single approximately 433 kb unique sequence probe direct labeled in SpectrumRed, that hybridizes to the 20q13.2 region of chromosome 20 and includes the 17.5 kb ZNF217 gene.

## RESULTS OF HYBRIDIZATION

When hybridized with the LSI ZNF217 Probe, a normal cell containing two copies of the 20q13.2 region will exhibit two gold signals. In a cell harboring amplification of the ZNF217 gene or 20q13.2 region, multiple copies of the gold signal will be observed.

Breast Cancer

# Vysis LSI MYC SpectrumOrange FISH Probe Kit



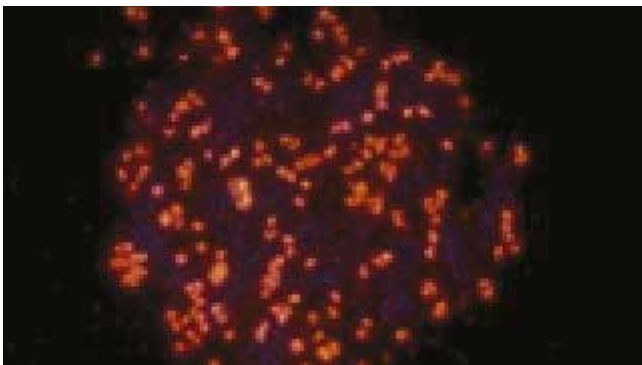
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256

## PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect gain of the MYC (C-MYC) locus located on chromosome 8q24.12-q24.13. The Vysis LSI MYC Probe is an approximately 138 kb SpectrumOrange labeled probe comprising ~5 kb of the MYC gene from Exon 1 to Exon 3, thus covering essentially the entire coding region.

## RESULTS OF HYBRIDIZATION

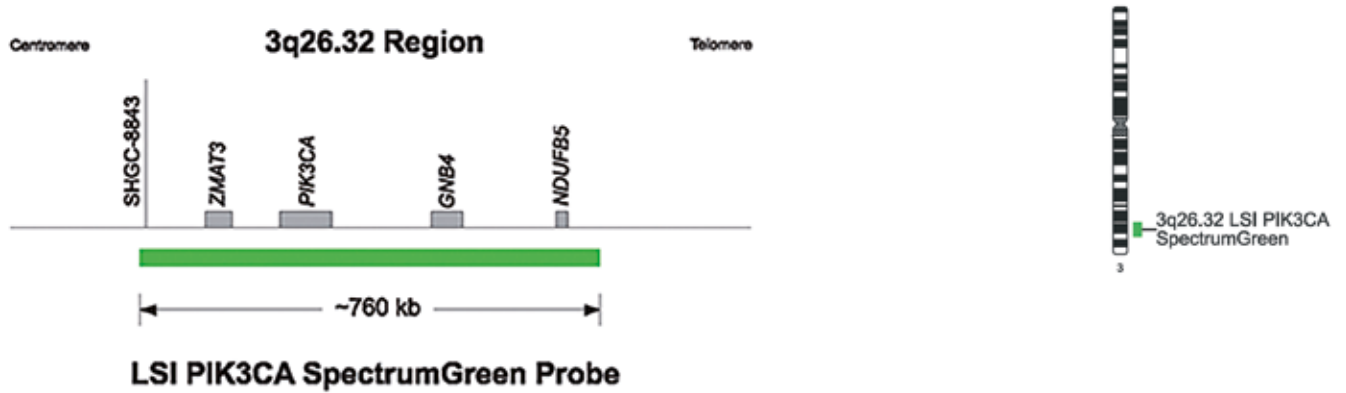
In a cell with amplification of the C-MYC locus, multiple copies of the orange signal may be seen when hybridized with the C-MYC probe.



**Normal Hybridization:** LSI C-MYC Probe hybridized to a cell. Multiple orange signals are visible.

Breast Cancer

Vysis PIK3CA SpectrumGreen Probe Kit



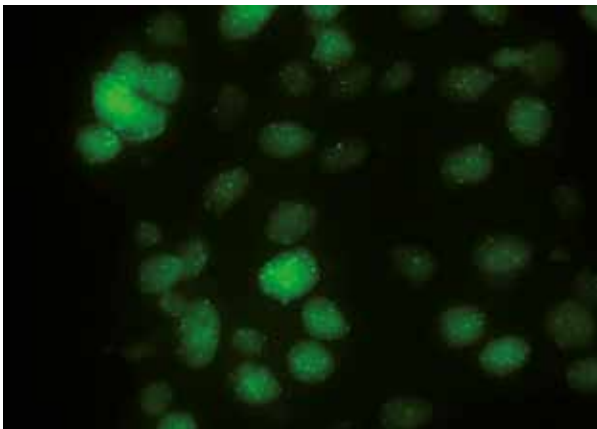
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907

PRODUCT DESCRIPTION

The Vysis PIK3CA SpectrumGreen FISH Probe Kit is designed to detect copy number of 3q26.32 via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin-embedded (FFPE) lung cancer tissue. The PIK3CA gene locus has been shown to be frequently amplified in many cancers, including lung, ovarian, cervical, gastric, colorectal, breast, head and neck.

RESULTS OF HYBRIDIZATION

Normal diploid nuclei are expected to exhibit two green fluorescent PIK3CA signals. A chromosome set that has an extra copy (copies) of PIK3CA will exhibit more than two green fluorescent signals.



Breast Cancer

Vysis LSI AURKA SpectrumGold FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470

PRODUCT DESCRIPTION

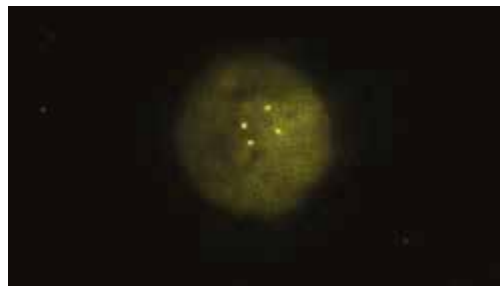
The Vysis LSI AURKA SpectrumGold FISH Probe Kit is designed to detect the copy number of Aurora Kinase A (AURKA) locus localized in chromosome 20 at the 20q13.2 band via fluorescence in situ hybridization (FISH) in human urine specimens.

The approximately 650 Kb SpectrumGold AURKA (20q13.2) probe encompasses the entire 23 Kb AURKA gene on chromosome 20 and adjacent regions, extending from a point centromeric of the AURKA gene to a point telomeric of the AURKA gene.

RESULTS OF HYBRIDIZATION



**Normal Hybridization:** In a nucleus with a normal copy number of the AURKA gene, two gold signals will be observed.



**Abnormal Hybridization:** Abnormal copy number of the AURKA gene is indicated by more than two copies of the gold probe signal. Disregard nuclei with less than 2 copies of the gold probe signal.

Gliomas

## Vysis CDKN2A / CEP 9 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CDKN2A / CEP 9 FISH Probe Kit (CE)	20 µL	04N61-020	00884999009295

### PRODUCT DESCRIPTION

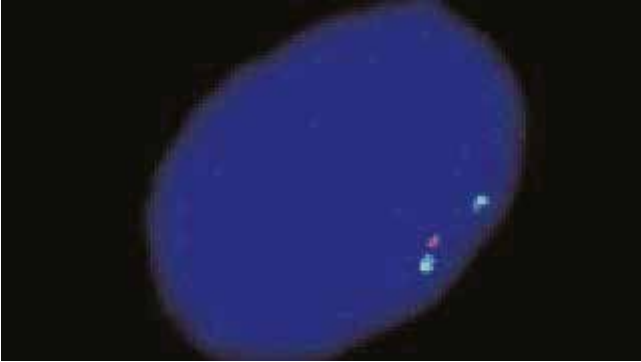
This fluorescence in situ hybridization (FISH) probe is intended to detect deletion of the LSI CDKN2A (p16) probe target within the 9p21 chromosome region.

Alterations of the 9p21 locus including the tumor suppressor gene CDKN2A (p16) are implicated in different Meningiomas and Gliomas. Studies support the association of CDKN2A homozygous deletion with malignant progression and suggest that it is a marker of worse prognosis in anaplastic oligodendrogliomas. The Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes have been used in several cytogenetic studies to detect losses of the CDKN2A gene. Using this probe set as well as other relevant markers (eg, p53, RB1, 1p36, 19q13, all Vysis FISH probes), Kramar, et al investigated 82 samples from 81 patients with histologically confirmed glial tumors. In a study using the Vysis LSI CDKN2A SpectrumOrange/ CEP 9 SpectrumGreen Probes on 189 confirmed glioblastoma patients less than 50 years old, Korshunov, et al found 9p21 deletion to be correlated with an unfavorable prognosis.

Vysis LSI CDKN2A/CEP 9 Probes are provided in one vial as a mixture of the LSI CDKN2A (p16) probe labeled with SpectrumOrange and the CEP 9 probe labeled with SpectrumGreen. The LSI CDKN2A probe spans approximately 222 kb and contains a number of genes including MTAP, CDKN2A, and CDKN2B. The LSI CDKN2A contains a number of genetic loci including D9S1749, p16 (INK4B), p14 (ARF), D9S1748, p15(INK4B), and D9S1752. The CEP 9 SpectrumGreen probe hybridizes to alpha satellite sequences specific to chromosome 9

## RESULTS OF HYBRIDIZATION

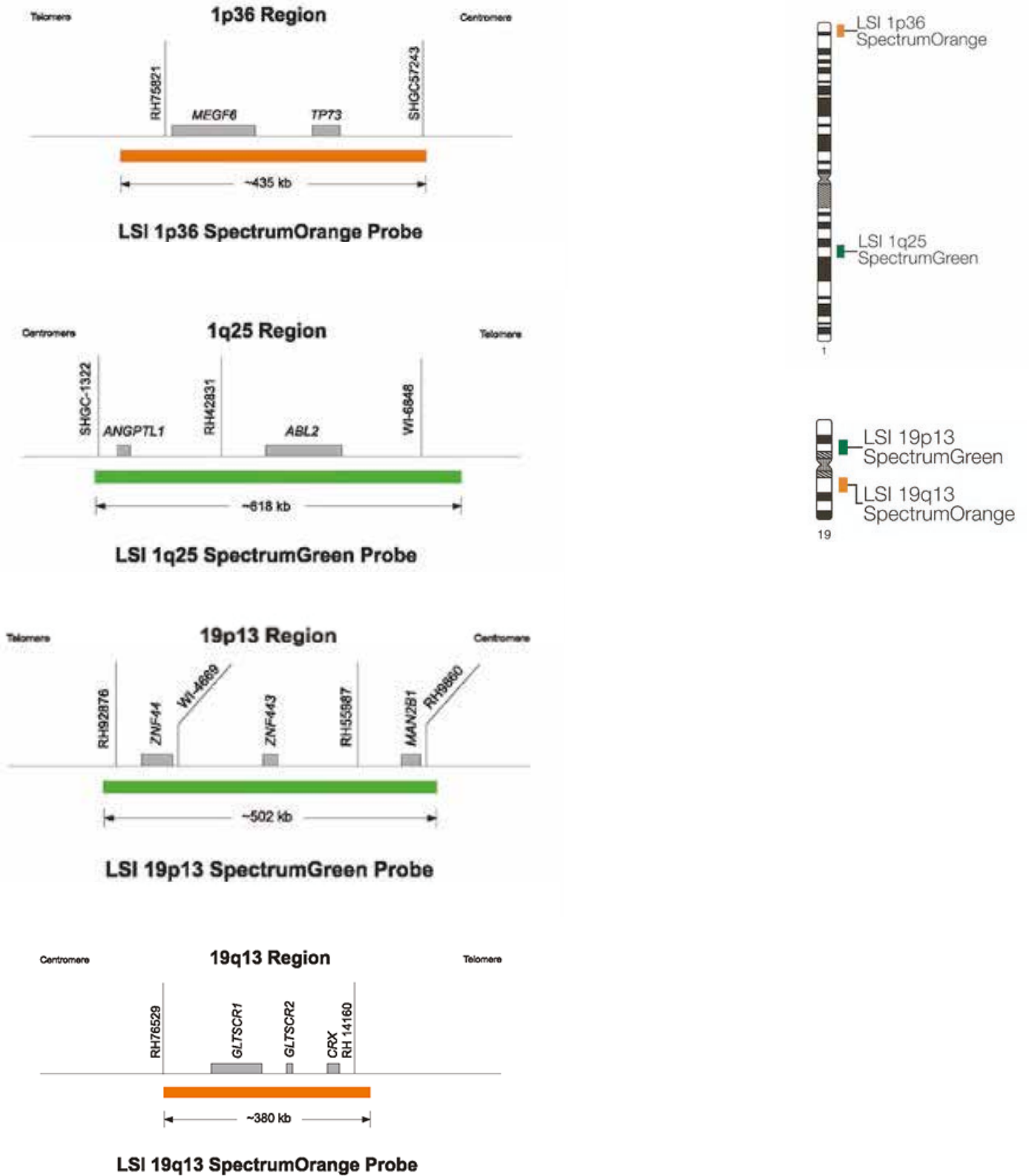
In a normal sample, the expected pattern for a nucleus hybridized with the Vysis LSI CDKN2A / CEP 9 Probe is the two orange, two green (2O2G) signal pattern. If a deletion at the 190 kb region covered by the LSI p16 probe occurs on one chromosome 9 homolog and both centromeres from chromosome 9 are retained, the one orange, two green (1O2G) signal pattern is expected. Very small deletions may occur that do not delete the entire LSI p16 probe target and therefore will not be detected.



**Abnormal Hybridization:** Vysis LSI CDKN2A / CEP 9 Probe hybridized to a nucleus exhibiting the one orange and two green signal (1O2G) pattern. One p16 gene locus is deleted and both chromosome 9 homologs are present as indicated by one orange and two green signals, respectively.

Gliomas

Vysis LSI 1p36 SpectrumOrange / 1q25 SpectrumGreen Probes and  
 Vysis LSI 19q13 SpectrumOrange / 19p13 SpectrumGreen Probes





PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (CE)	2 vials, 200 µl each	04N60-020	00884999009288

**PRODUCT DESCRIPTION**

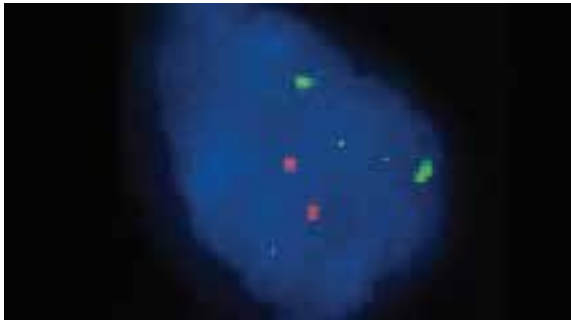
This fluorescence in situ hybridization (FISH) probe is intended to detect deletion of 1p36 and 19q13 chromosome regions.

The Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes are provided in 1 vial as a mixture of a ~435 kb SpectrumOrange-labeled 1p36 probe and a ~618 kb SpectrumGreen-labeled 1q25 probe premixed in hybridization buffer. The LSI 1p36 probe contains sequences that extend from near SHGC-57243 locus, through the TP73 and MEGF6 genes, and ends at a point telomeric to the MEGF6 locus. The LSI 1q25 probe contains sequences that extend from a point telomeric to the ABL2 gene, through the ABL2 and ANGPTL1 genes, and ends proximally near the SHGC-1322 locus.

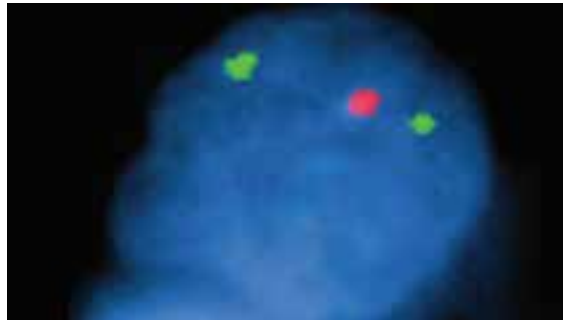
The Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes are provided in 1 vial as a mixture of a ~380 kb SpectrumOrange-labeled 19q13 probe and a ~502 kb SpectrumGreen-labeled 19p13 probe premixed in hybridization buffer. The LSI 19p13 probe contains sequences that extend from a point centromeric to the MAN2B1 locus, through MAN2B1, ZNF443 and ZNF44 genes, and ends at a point telomeric to the ZNF44 locus. The LSI 19q13 probe contains sequences that extend from a point telomeric to the CRX locus, through the CRX, GLTSCR2 and GLTSCR1 genes, and ends proximally at a point centromeric to the GLTSCR1 locus.

**RESULTS OF HYBRIDIZATION**

**Vial 1** This probe allows status assessment of the following two chromosome regions: 1p36 and 1q25.

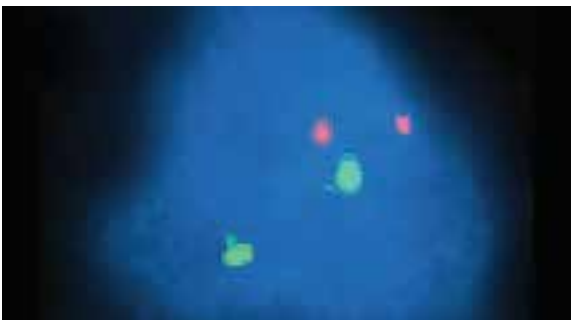


**Normal Hybridization:** In a normal cell hybridized with the LSI 1p36 and LSI 1q25, two orange and two green signals will be observed indicative of two intact copies of chromosome 1.

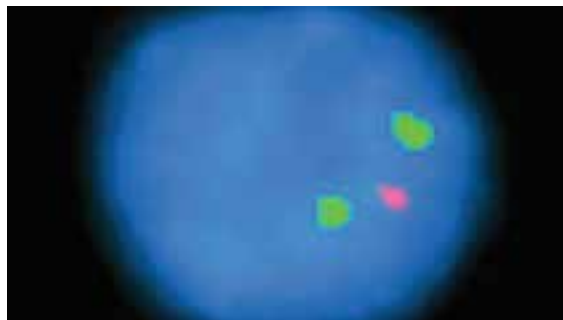


**Abnormal Hybridization:** In an abnormal cell with a deletion in the 1p36 region fewer than two orange signals will be observed.

**Vial 2** This probe allows status assessment of the following two chromosome regions: 19q13 and 19p13.



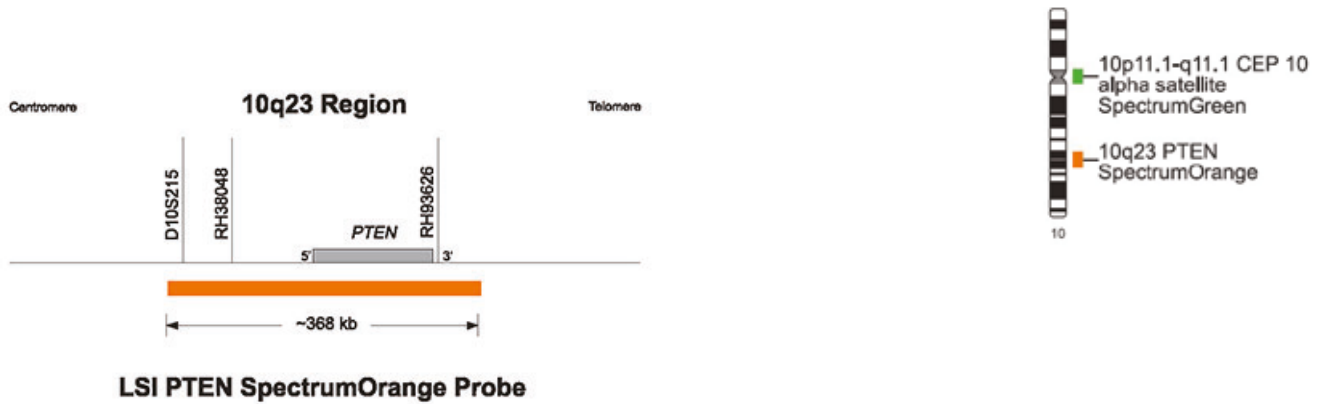
**Normal Hybridization:** In a normal cell with two intact copies of chromosome 19, two orange and two green signals will be observed.



**Abnormal Hybridization:** In an abnormal cell with a deletion in the 19q13 region, fewer than two orange signals will be observed.

Gliomas

# Vysis LSI PTEN / CEP 10 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PTEN/CEP 10 FISH Probe Kit (CE)	20 µL	04N62-020	00884999009301

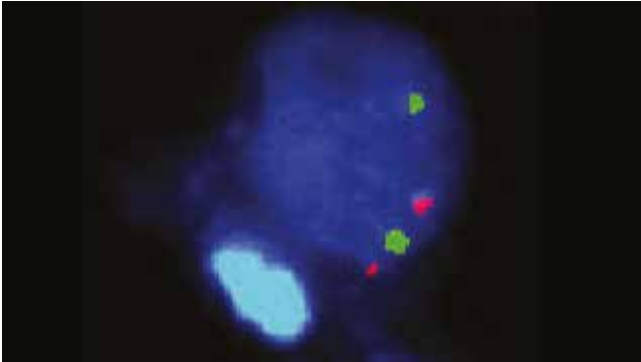
## PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect deletions of the PTEN gene located on chromosome 10q23. Vysis LSI PTEN SpectrumOrange/CEP 10 SpectrumGreen Probes are provided in 1 vial as a mixture of LSI PTEN (10q23) probe, labeled with SpectrumOrange, and the CEP 10 probe, labeled with SpectrumGreen. The LSI PTEN (10q23) SpectrumOrange Probe is a ~368 kb probe that hybridizes to the 10q23 region on chromosome 10 and contains sequences that flank both the 5' and 3' ends of the PTEN gene. The CEP 10 SpectrumGreen probe hybridized to alpha satellite sequences specific to chromosome 10.

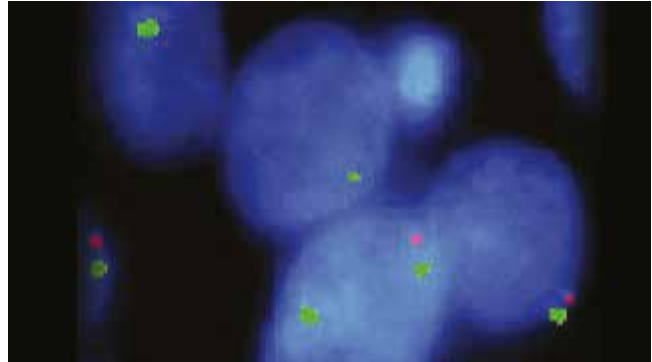
## RESULTS OF HYBRIDIZATION

In a normal cell with two intact copies of chromosome 10, two green and two orange signals will be observed.

In an abnormal cell with a deletion of the PTEN (10q23) gene region, fewer than two orange signals will be observed.



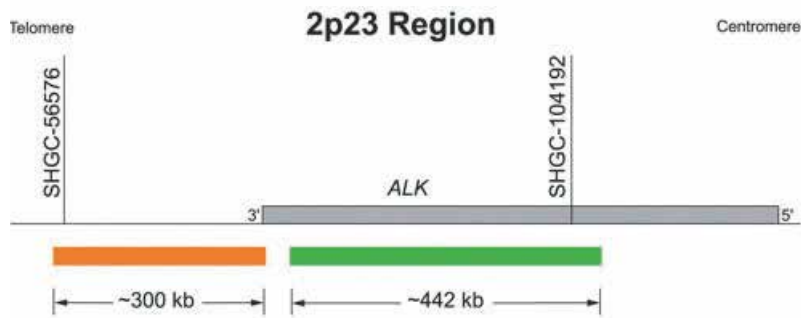
**Normal Hybridization:** Result of the hybridization of the Vysis LSI PTEN /CEP 10 Probes as observed in normal interphase cells.  
(Photo courtesy of Dr. Arie Perry, Washington University.)



**Abnormal Hybridization:** An abnormal cell hybridized with the Vysis LSI PTEN / CEP 10 Probes. The cell in this image shows the one orange, two green signal pattern indicative of a PTEN (10q23) deletion. (Photo courtesy of Dr. Arie Perry, Washington University.)

Lung Cancer

Vysis ALK Break Apart FISH Probe Kit



**LSI ALK Dual Color, Break Apart Rearrangement Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ALK Break Apart FISH Probe Kit (CE)	20 Assays	06N38-023	00884999042766
Vysis ALK Break Apart FISH Probe Kit (CE)	50 Assays	06N38-050	00884999037205
ProbeChek ALK Negative Control Slides (CE)	5 slides	06N38-005	00884999025721
Vysis ProbeChek ALK Negative Control II (only use with 06N38-50) (CE)	5 slides	06N38-006	00884999038196
ProbeChek ALK Positive Control Slides (CE)	5 slides	06N38-010	00884999025738
Vysis Paraffin Pretreatment IV & Post-Hybridization Wash Buffer Kit (CE)	1 Kit	01N31-005	00884999000735

## PRODUCT DESCRIPTION

### Intended Use

The Vysis ALK Break Apart FISH Probe Kit is a qualitative test to detect rearrangements involving the ALK gene via fluorescence in situ hybridization (FISH) in formalin-fixed paraffin-embedded (FFPE) non-small cell lung cancer (NSCLC) tissue specimens to aid in identifying those patients eligible for treatment with Xalkori® (Crizotinib)

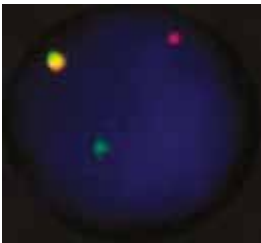
### Limitations

1. The Vysis ALK Break Apart FISH Probe Kit has been optimized only for identifying and quantifying rearrangements of the ALK gene from formalin-fixed, paraffin-embedded human NSCLC tissue specimens. The assay should be used only on 10% neutral buffered FFPE human lung tumor tissue. Other types of specimens or fixatives should not be used.
2. The performance of the Vysis ALK Break Apart FISH Probe Kit was established using the procedures provided in the package insert only. Modifications to these procedures may alter the performance of the assay.
3. The clinical interpretation of any test results should be evaluated within the context of the patient's medical history and other diagnostic laboratory test results.
4. FISH assay results may not be informative if the specimen quality and/or specimen slide preparation is inadequate.
5. Technologists performing the FISH signal enumeration must be capable of visually distinguishing between the orange, green and yellow signals.

To learn more about Vysis ALK Break Apart FISH Probe Kit please visit: <https://www.molecular.abbott/int/en/products/oncology/vysis-alk-break-apart-fish-probe-kit>

## RESULTS OF HYBRIDIZATION

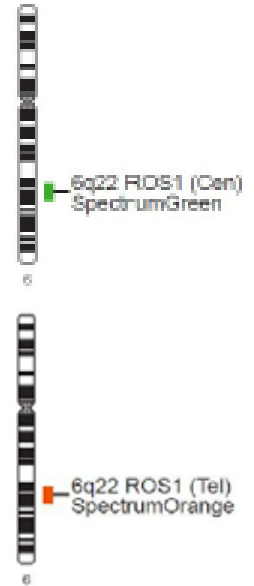
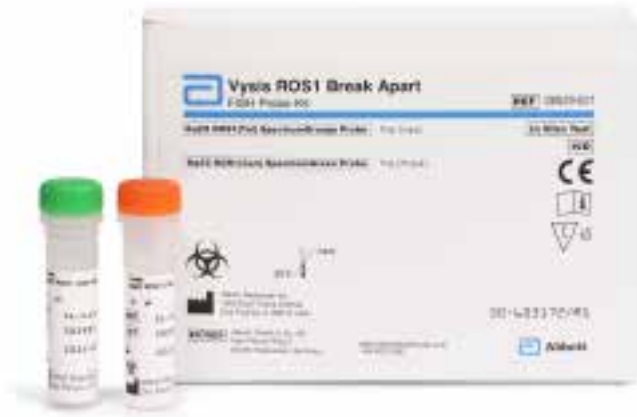
When hybridized with the LSI ALK Dual Color, Break Apart Rearrangement Probe, the 2p23 ALK region in its native state will be seen as two immediately adjacent or fused orange/green (yellow) signals (2F). However, if a t(2;5) or other chromosome rearrangement at the 2p23 ALK breakpoint region has occurred, one orange and one green signal will be seen, while the native ALK region will remain as an orange/ green fusion signal (1O1G1F). The hybridization result of the LSI ALK Dual Color, Break Apart Rearrangement Probe containing the t(2;5) translocation will be the centromeric green probe remaining at 2p23, while the telomeric orange signal that covers the region is translocated to 5q35 on the derivative chromosome.



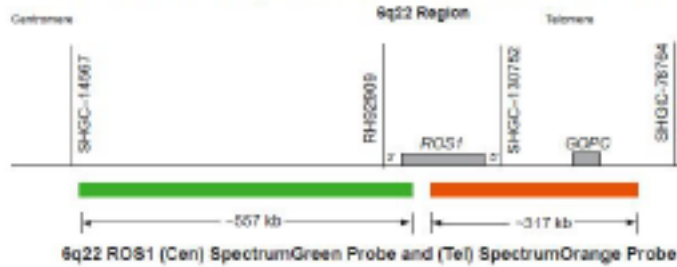
**Abnormal Hybridization:** Hybridization image demonstrating a break in the ALK locus. Vysis ALK Break abnormal (positive) signal pattern is represented by 1 green, 1 red and 1 fusion signal.

Lung Cancer

Vysis ROS1 Break Apart FISH Probe Kit



Relative Location of the Vysis 6q22 ROS1 (Cen) SpectrumGreen Probe and Vysis 6q22 ROS1 (Tel) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ROS1 Break Apart FISH Probe Kit (CE)	10µL	08N29-021	00884999048485
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease (75 mg) Kit (CE)	5 vials, 750mg	08N85-083	00884999046825
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease (750 mg) Kit (CE)	1 vial, 750mg	08N85-084	00884999046832
Vysis IntelliFISH Universal FFPE Tissue Pretreatment and Wash Reagent Kit (CE)	1 kit	08N85-085	00884999046849
Vysis IntelliFISH Hybridization Buffer (1 Vials) (CE)	1 vial, 250 µL	08N87-010	00884999048744
Vysis IntelliFISH Hybridization Buffer (5 Vials) (CE)	5 vials, 250 µL	08N87-015	00884999048751
Vysis IntelliFISH DAPI I Counterstain for FFPE Specimens (CE)	1 vial, 300 µL	09N54-010	00884999048232

## PRODUCT DESCRIPTION

The Vysis ROS1 Break Apart FISH Probe Kit uses Fluorescence in situ hybridization (FISH) technology to detect ROS1 gene rearrangements at 6q22 involving the receptor tyrosine kinase (ROS1) gene.

Rearrangement of the ROS1 gene occurs in:

- 0.2%-2.4% of Colorectal Cancers (CRC)
- 1%-2% of Non-Small Cell Lung Cancer (NSCLC) leading to its oncogenic activation
- Gastric Adenocarcinoma
- Various types of melanoma, inflammatory myofibroblastic tumor, and angiosarcoma
- Epithelioid hemangioendothelioma

### Intended Use

The Vysis ROS1 Break Apart FISH Probe Kit is a qualitative test designed to identify acquired pathogenetic alterations of the ROS1 gene at the 6q22 location via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin-embedded (FFPE) human specimens.

ROS1 analysis by FISH is used in conjunction with other clinical and diagnostic information and is not to be used as the sole basis for diagnosis or therapy decisions. This test can be performed manually or in semi-automated format.

### Probe Description

This probe kit consists of two fluorophore-labeled DNA probes in TE buffer containing blocking DNA:

- Vysis 6q22 ROS1 (Cen) SpectrumGreen probe [3']
- Vysis 6q22 ROS1(Tel) SpectrumOrange probe [5']

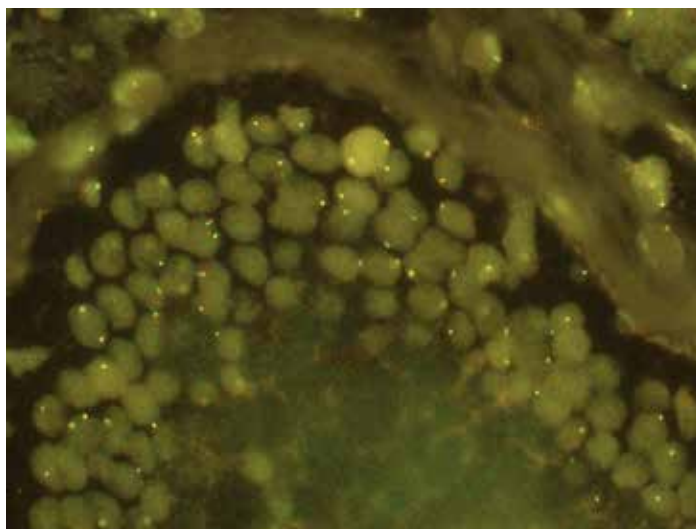
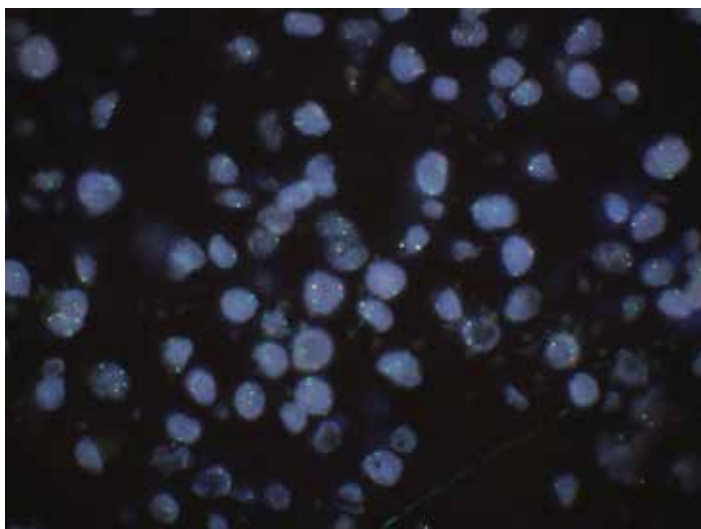
The Vysis ROS1 Break Apart FISH Probe Kit consists of two separate probes, located 3' and 5' of the common breakpoint region of the ROS1 gene.

To learn more about Vysis ROS1 Break Apart FISH Probe Kit, please visit: <https://www.molecular.abbott/int/en/products/oncology/vysis-ROS1-break-apart-fish-probe-kit>

## RESULTS OF HYBRIDIZATION

**Example of the Rearrangement Signal (Left):** The signal pattern observed in a cell line containing the ROS1 rearrangement is represented by at least one green/orange (yellow) fusion signal. In addition, a single green (1G) and a single orange (1O) is also visible (green and orange signals separated by a distance of 1 or more signal diameters).

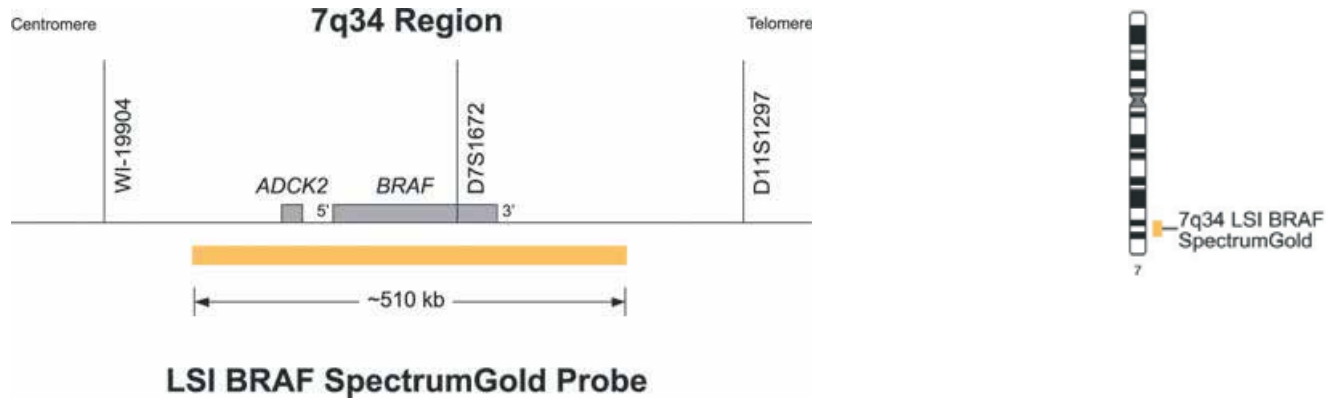
**Example of the Non-Rearrangement Signal (Right):** Fused green/orange signals are observed. The signals are either overlapping (appearing as a yellow signal), adjacent or are less than 1 signal diameter apart.





Lung Cancer

Vysis BRAF SpectrumGold FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999025028

**PRODUCT DESCRIPTION**

The Vysis BRAF SpectrumGold FISH Probe Kit is designed to detect copy number of 7q34 via fluorescence in situ hybridization (FISH) in formalin fixed paraffin embedded (FFPE) lung cancer tissue.

The Vysis BRAF FISH assay is based on the ability of BRAF locus specific identifier (LSI) probe to identify copy number changes of 7q34 chromosomal locus, using a FISH test.

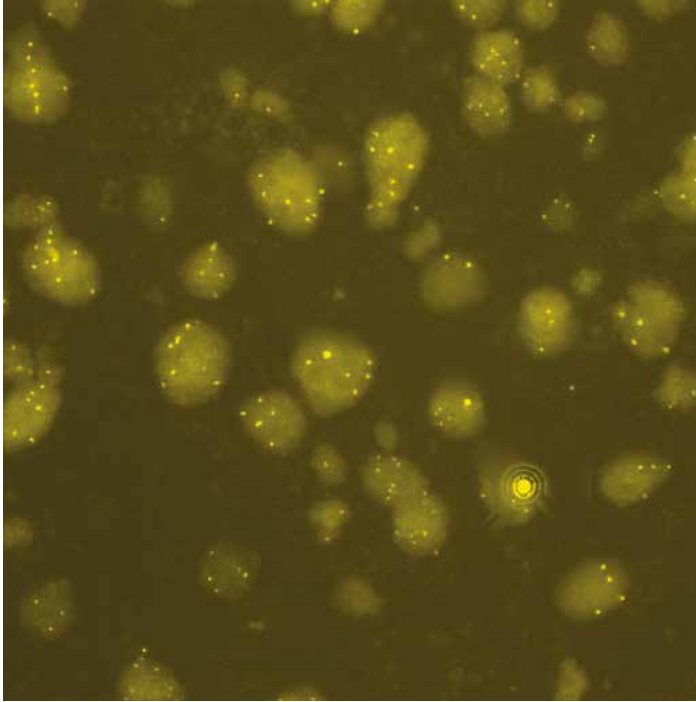
BRAF is one of three serine/threonine RAF-regulated kinases that have an important role in cellular proliferation, differentiation, and programmed cell death. It also participates in the RAS-RAF-MEK-ERK-BRAF in promoting tumorigenesis (malignant transformation of kinase BRAFs).

Mutationally activated BRAF-V600E is detected in melanoma (70%), colorectal (15%), papillary thyroid (40%), ovarian (30%), and non-small-cell lung cancers (NSCLCs) (3%). Melanoma with activating mutation of BRAF is more likely to have copy gains at the BRAF locus. BRAF copy number gains have been identified in both follicular thyroid cancer and malignant melanoma, and may occur through either gene amplification or chromosome 7 polysomy. The BRAF copy number gains are expected in lung cancer, where chromosome 7 is also amplified.

The approximately 510 kb (chr7:139912659-140422776; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) LSI BRAF (7q34) SpectrumGold probe contains the entire BRAF gene on chromosome 7.

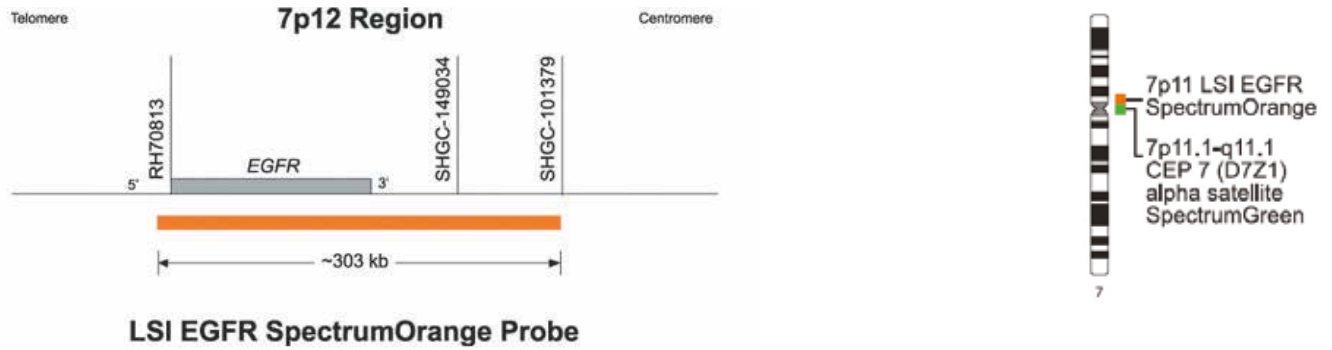
## RESULTS OF HYBRIDIZATION

Normal diploid nuclei or metaphase chromosome sets are expected to exhibit two gold fluorescent BRAF signals, which correspond to two target loci on chromosome homologues to which the BRAF fluorescent probe is bound: 7q34. A chromosome set that has an extra copy (copies) of BRAF (7q34) will exhibit more than two gold fluorescent signals.



Lung Cancer

Vysis EGFR / CEP 7 FISH Probe Kit



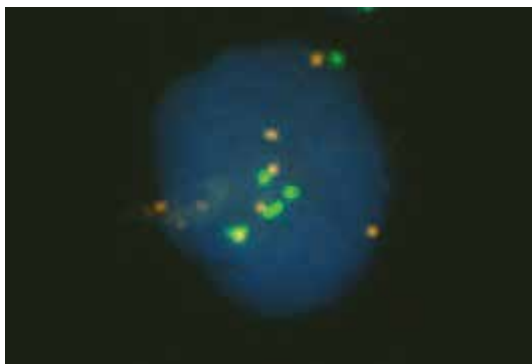
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis EGFR / CEP 7 FISH Probe Kit (CE)	20 µL	01N35-020	00884999000773

PRODUCT DESCRIPTION

The Vysis EGFR/CEP 7 FISH Probe Kit is designed to detect copy number of the EGFR gene and of centromere 7 via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin-embedded tissue specimens. This procedure has been optimized for use with formalin-fixed, paraffin-embedded (FFPE) lung tissue, but may not be applicable for other tissue types. Other tissue types may require adjusted pretreatment, hybridization, and/or wash conditions. The LSI EGFR Probe is labeled with SpectrumOrange and covers an approximately 303 kb region that contains the entire EGFR gene. The CEP 7 probe, labeled with SpectrumGreen, hybridizes to the alpha satellite DNA located at the centromere of chromosome 7 (7p11.1-q11.1). This probe set is premixed in Hybridization Buffer.

RESULTS OF HYBRIDIZATION

In a cell with normal copy number of the EGFR gene and chromosome 7, two orange signals (EGFR), and two green signals (chromosome 7) will be observed. Simultaneously, the copy number of chromosome 7 can be quantified by enumeration of the green signals observed within the same cell. Therefore, enumeration of both the orange EGFR and green CEP 7 signals provide a mechanism for determining EGFR copy number relative to total chromosome 7 copy number.



**Abnormal Hybridization:** An abnormal cell hybridized with the Vysis LSI EGFR SpectrumOrange /CEP 7 SpectrumGreen Probes. The cell contains multiple EGFR (orange) signals and chromosome 7 (green) signals.

Lung Cancer

Vysis LSI MYC SpectrumOrange FISH Probe Kit



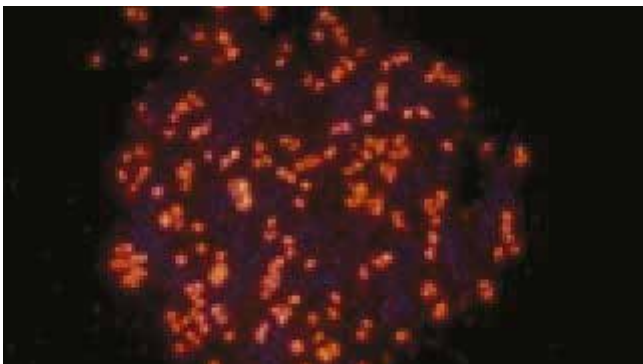
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256

PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect gain of the MYC (C-MYC) locus located on chromosome 8q24.12-q24.13. The Vysis LSI MYC Probe is an approximately 138 kb SpectrumOrange labeled probe comprising ~5 kb of the MYC gene from Exon 1 to Exon 3, thus covering essentially the entire coding region.

RESULTS OF HYBRIDIZATION

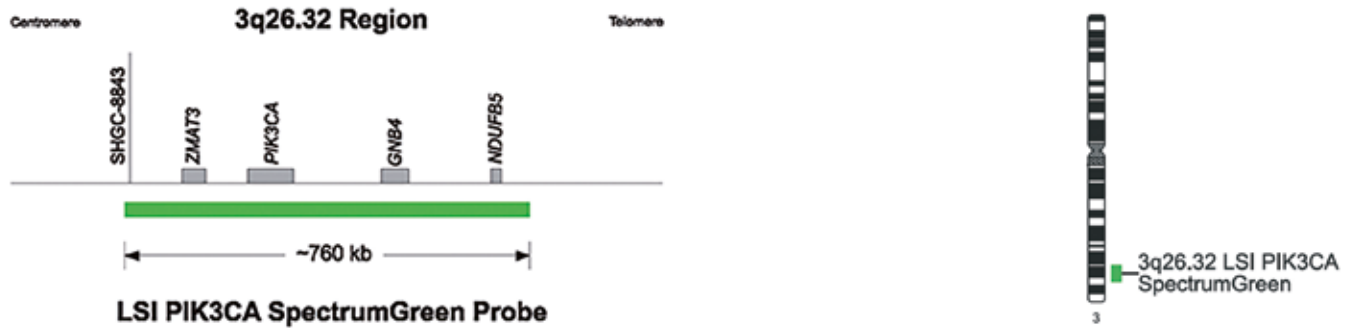
In a cell with amplification of the C-MYC locus, multiple copies of the orange signal may be seen when hybridized with the C-MYC probe.



**Normal Hybridization:** LSI C-MYC Probe hybridized to a cell. Multiple orange signals are visible.

Lung Cancer

Vysis PIK3CA SpectrumGreen Probe



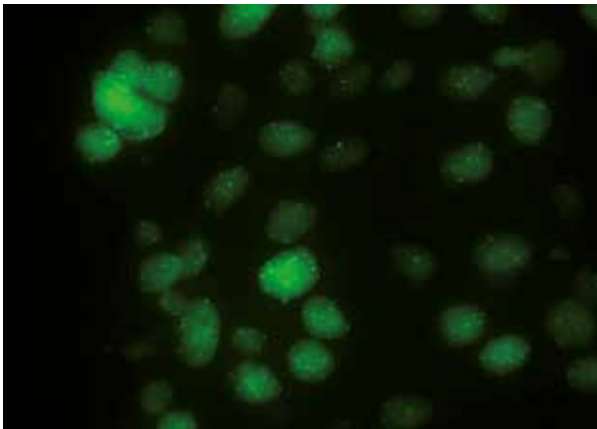
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907

PRODUCT DESCRIPTION

The Vysis PIK3CA SpectrumGreen FISH Probe Kit is designed to detect copy number of 3q26.32 via fluorescence in situ hybridization (FISH) in formalin- fixed, paraffin-embedded (FFPE) lung cancer tissue. The PIK3CA gene locus has been shown to be frequently amplified in many cancers, including lung, ovarian, cervical, gastric, colorectal, breast, head and neck.

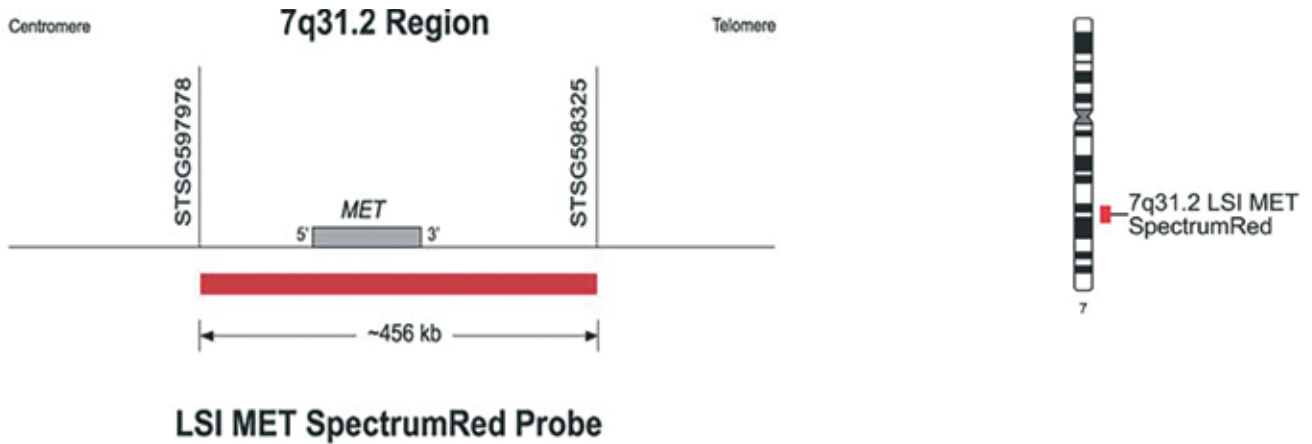
RESULTS OF HYBRIDIZATION

Normal diploid nuclei are expected to exhibit two green fluorescent PIK3CA signals. A chromosome set that has an extra copy (copies) of PIK3CA will exhibit more than two green fluorescent signals.



Lung Cancer

Vysis MET SpectrumRed FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MET SpectrumRed FISH Probe Kit (CE)	20 µL	06N05-020	00884999024984

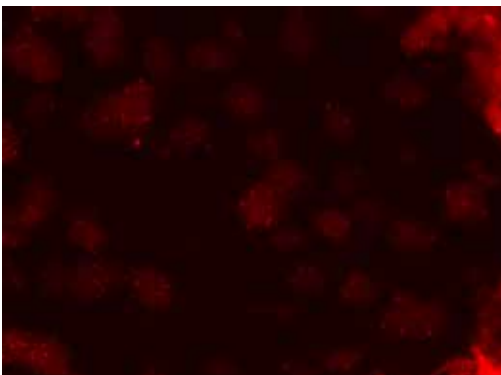
**PRODUCT DESCRIPTION**

The Vysis MET SpectrumRed FISH Probe Kit is designed to detect copy number of 7q31.2 via fluorescence in situ hybridization (FISH) in formalin fixed paraffin embedded (FFPE) lung cancer tissue.

The approximately 456 kb (chr7:115971431-116427460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumRed probe contains the entire MET gene on chromosome 7.

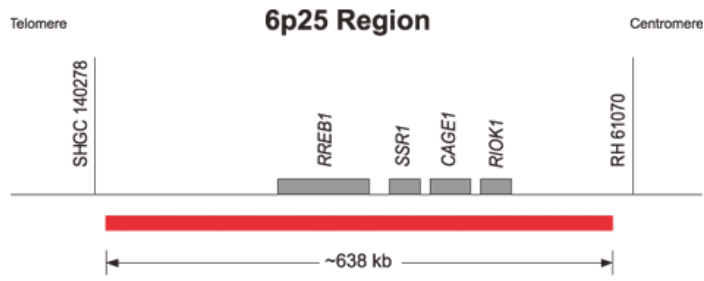
**RESULTS OF HYBRIDIZATION**

In a nucleus with normal copy number of the MET gene, two red signals will be observed. Abnormal copy number of the MET gene is indicated by more than two copies of the red probe signal.

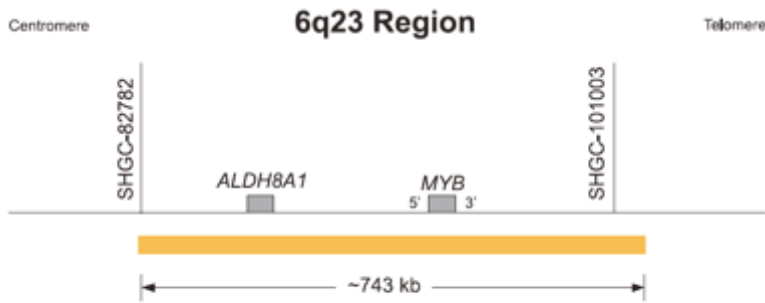


Melanoma

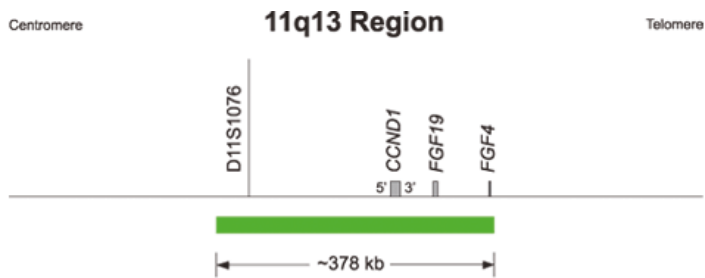
# Vysis Melanoma FISH Probe Kit



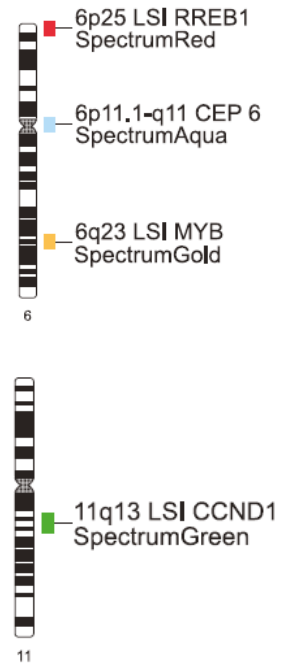
**LSI RREB1 SpectrumRed Probe**



**LSI MYB SpectrumGold Probe**



**LSI CCND1 SpectrumGreen Probe**



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Melanoma FISH Probe Kit (CE)	200 µL	01N89-020	00884999001312



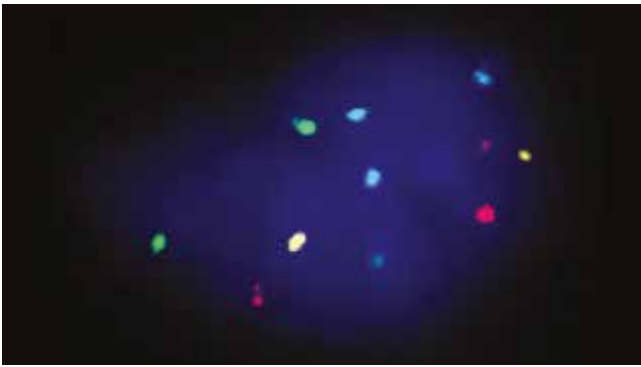
## PRODUCT DESCRIPTION

The Vysis Melanoma FISH Probe Kit is designed to detect copy number of the RREB1 (6p25), MYB (6q23), CCND1 (11q13) genes and of centromere 6 via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin embedded human skin tissue specimens. The Vysis Melanoma FISH Probe Kit is indicated as an aid in the diagnosis of melanoma in skin biopsy specimens.

The RREB1 (6p25) Probe is labeled with SpectrumRed and covers an approximately 638 kb region that contains the entire RREB1 gene. The MYB (6q23) probe is labeled with SpectrumGold and covers an approximately 740 kb region that contains the entire MYB gene. The CCND1 (11q13) probe is labeled with SpectrumGreen and covers an approximately 378 kb region that contains the entire CCND1 gene. The CEP 6 probe, labeled with SpectrumAqua, hybridizes to the alpha satellite DNA located at the centromere of chromosome 6 (6p11.1-q11.1).

## RESULTS OF HYBRIDIZATION

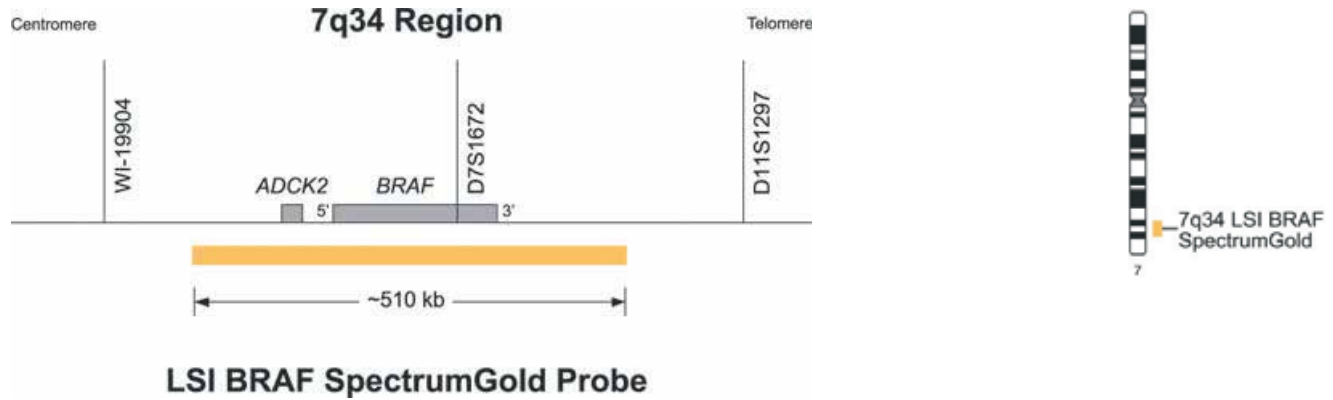
In a normal cell, two copies of each signal will be observed.



**Normal Hybridization:** Results of hybridization of the Vysis Melanoma FISH Probe Kit with an abnormal cell with multiple copies of RREB1 (red) and Chromosome 6 (Aqua).

Melanoma

# Vysis BRAF SpectrumGold FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999025028

## PRODUCT DESCRIPTION

The Vysis BRAF SpectrumGold FISH Probe Kit is designed to detect copy number of 7q34 via fluorescence in situ hybridization (FISH) in formalin fixed paraffin embedded (FFPE) lung cancer tissue.

The Vysis BRAF FISH assay is based on the ability of BRAF locus specific identifier (LSI) probe to identify copy number changes of 7q34 chromosomal locus, using a FISH test.

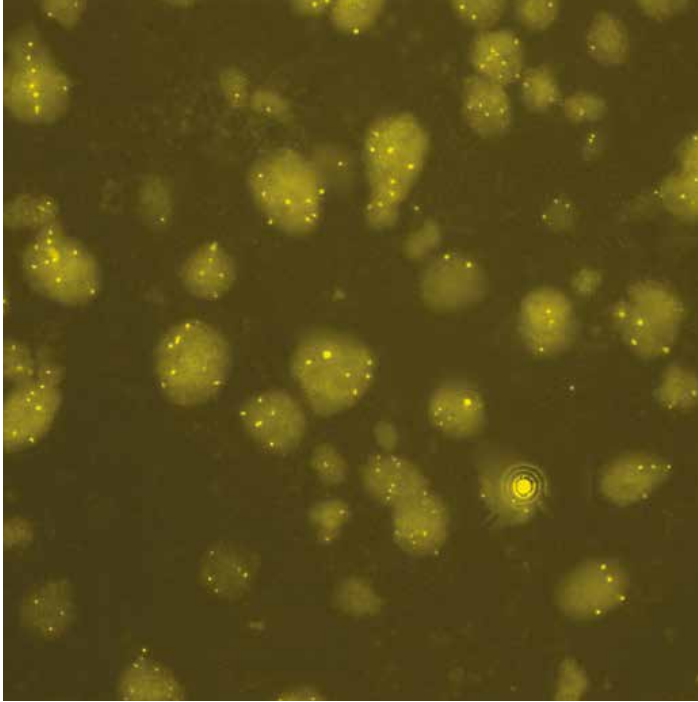
BRAF is one of three serine/threonine RAF-regulated kinases that have an important role in cellular proliferation, differentiation, and programmed cell death. It also participates in the RAS-RAF-MEK-ERK-BRAF in promoting tumorigenesis (malignant transformation of kinase BRAFs).

Mutationally activated BRAF-V600E is detected in melanoma (70%), colorectal (15%), papillary thyroid (40%), ovarian (30%), and non-small-cell lung cancers (NSCLCs) (3%). Melanoma with activating mutation of BRAF is more likely to have copy gains at the BRAF locus. BRAF copy number gains have been identified in both follicular thyroid cancer and malignant melanoma, and may occur through either gene amplification or chromosome 7 polysomy. The BRAF copy number gains are expected in lung cancer, where chromosome 7 is also amplified.

The approximately 510 kb (chr7:139912659-140422776; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) LSI BRAF (7q34) SpectrumGold probe contains the entire BRAF gene on chromosome 7.

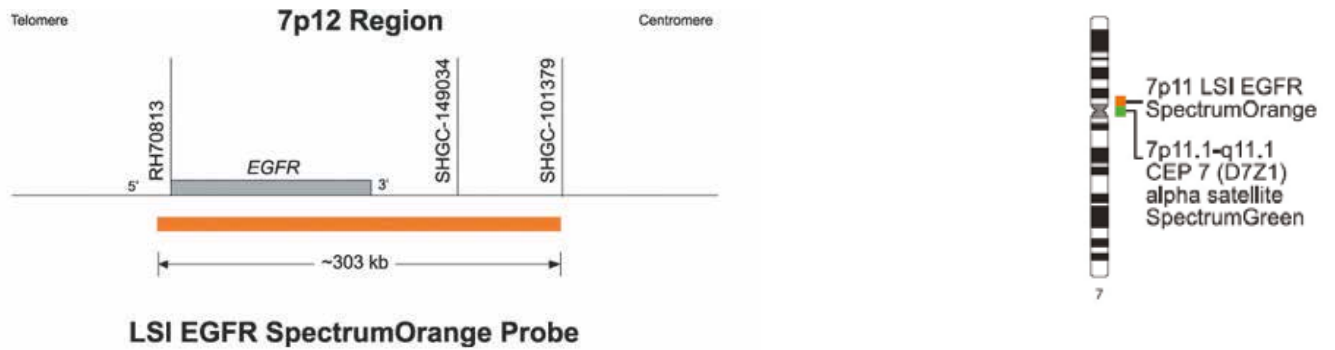
## RESULTS OF HYBRIDIZATION

Normal diploid nuclei or metaphase chromosome sets are expected to exhibit two gold fluorescent BRAF signals, which correspond to two target loci on chromosome homologues to which the BRAF fluorescent probe is bound: 7q34. A chromosome set that has an extra copy (copies) of BRAF (7q34) will exhibit more than two gold fluorescent signals.



Other Cancers

Vysis EGFR / CEP 7 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis EGFR / CEP 7 FISH Probe Kit (CE)	20 µL	01N35-020	00884999000773

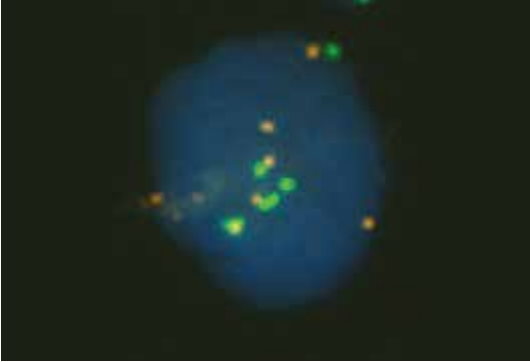
PRODUCT DESCRIPTION

The Vysis EGFR/CEP 7 FISH Probe Kit is designed to detect copy number of the EGFR gene and of centromere 7 via fluorescence in situ hybridization (FISH) in formalin-fixed, paraffin-embedded tissue specimens. This procedure has been optimized for use with formalin-fixed, paraffin-embedded (FFPE) lung tissue, but may be applicable for other tissue types. Other tissue types may require adjusted pretreatment, hybridization, and/or wash conditions.

The LSI EGFR Probe is labeled with SpectrumOrange and covers an approximately 303 kb region that contains the entire EGFR gene. The CEP 7 probe, labeled with SpectrumGreen, hybridizes to the alpha satellite DNA located at the centromere of chromosome 7 (7p11.1-q11.1). This probe set is premixed in Hybridization Buffer.

## RESULTS OF HYBRIDIZATION

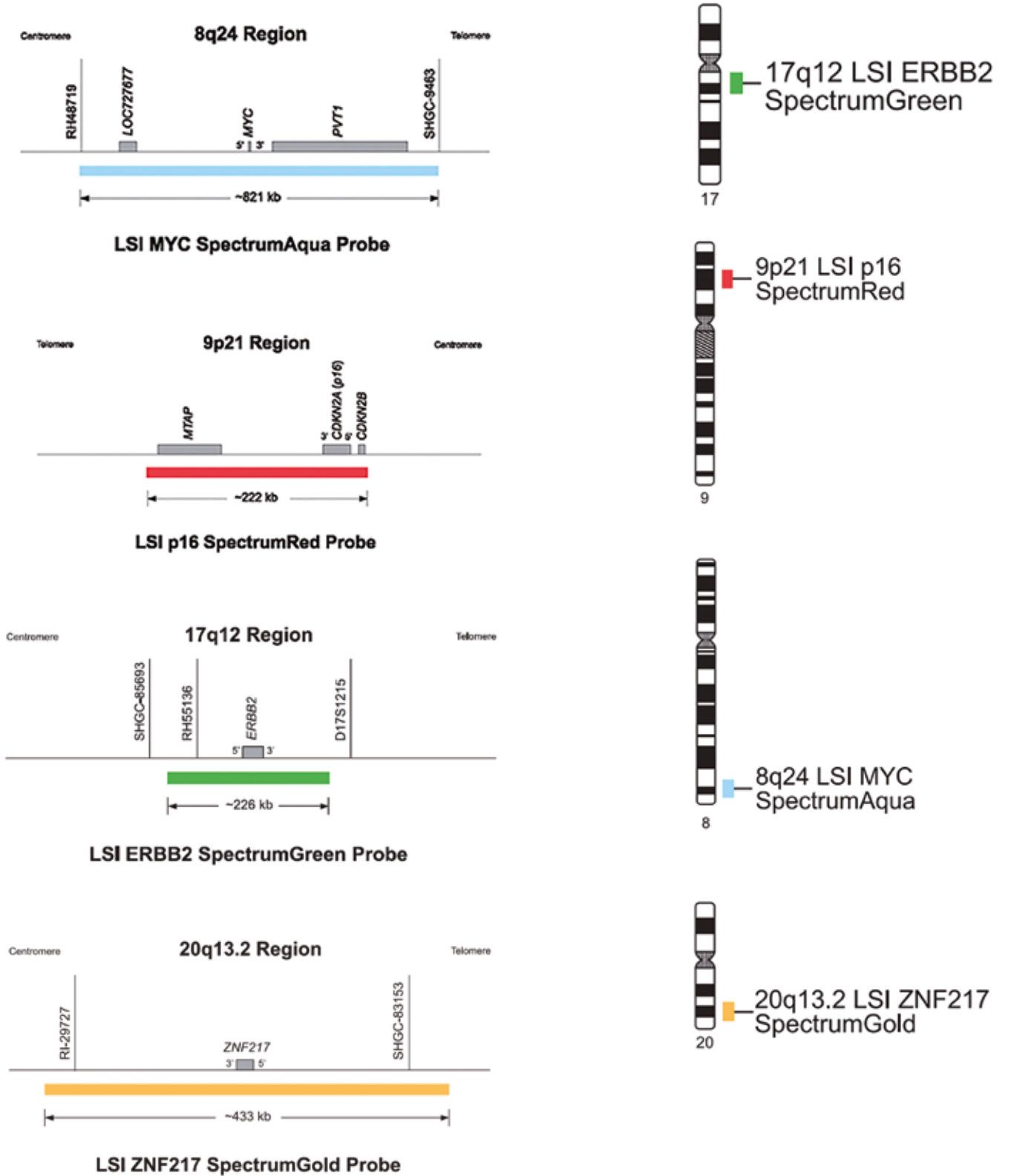
In a cell with normal copy number of the EGFR gene and chromosome 7, two orange signals (EGFR), and two green signals (chromosome 7) will be observed. Simultaneously, the copy number of chromosome 7 can be quantified by enumeration of the green signals observed within the same cell. Therefore, enumeration of both the orange EGFR and green CEP 7 signals provide a mechanism for determining EGFR copy number relative to total chromosome 7 copy number.



**Abnormal Hybridization:** An abnormal cell hybridized with the Vysis LSI EGFR SpectrumOrange /CEP 7 SpectrumGreen Probes. The cell contains multiple EGFR (orange) signals and chromosome 7 (green signals).

Other Cancers

Vysis Esophageal FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Esophageal FISH Probe Kit (CE)	20 µL	04N19-020	00884999008021

## PRODUCT DESCRIPTION

The Vysis Esophageal FISH Probe Kit is designed to detect copy number of ERBB2 (17q12), p16 (9p21), MYC (8q24) and ZNF217 (20q13.2) loci via fluorescence in situ hybridization (FISH) in cytology (esophageal brushing) specimens and in formalin-fixed, paraffin-embedded esophageal tissue specimens.

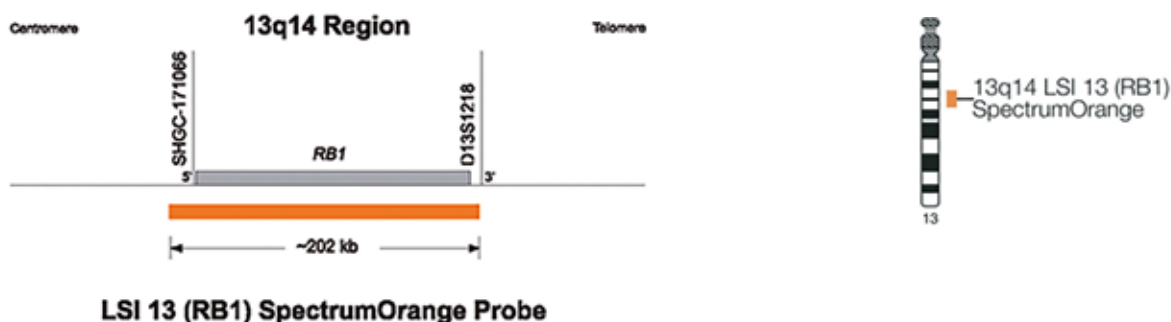
The Vysis Esophageal FISH Probe Kit uses 4 Locus-Specific Identifier (LSI) probes to identify copy number changes of the ERBB2 (17q12), p16 (9p21), MYC (8q24), and ZNF217 (20q13.2) chromosomal loci, using a multi-color FISH test. These 4 loci have been shown to be associated with dysplasia and esophageal adenocarcinoma (EAC) in patients with Barrett's esophagus (BE). BE is believed to increase the risk of EAC. The rise in incidence of this pre-malignant condition has been linked to a rapid increase in the incidence of EAC in Western European countries, Canada, and the US. The incidence of EAC has been growing at a rate exceeding that of any other cancer, 4 to 10% annually over the past 2 decades, while the 5-year survival rate remains less than 10%.

The Vysis Esophageal FISH Probe Kit contains fluorescently-labeled nucleic acid probes for use in in situ hybridization assays on esophageal brushing cytology specimens fixed on slides, or on formalin-fixed, paraffin-embedded human esophageal tissue. The Vysis Esophageal FISH Probe Kit is a 4-color mixture of 4 DNA probe sequences. The probes are pre-mixed in hybridization buffer for ease of use. Unlabeled blocking DNA is also included with the probes to suppress sequences contained within the target loci that are common to other chromosomes. When hybridized and visualized, these probes provide information on chromosome copy number. The ERBB2 probe is labeled with SpectrumGreen and covers an approximately 226 kb (chr17:35004678-35230380; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) region that encompasses the entire ERBB2 gene on chromosome 17. The p16 probe is labeled with SpectrumRed and covers an approximately 222 kb (chr9:21778963-22001169 March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) region that encompasses the entire p16 gene on chromosome 9 as well as adjacent regions. The MYC probe is labeled with SpectrumAqua and covers an approximately 821 kb (chr8:128432540-129253747; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) region that encompasses the entire MYC gene on chromosome 8 as well as adjacent regions. The ZNF217 probe is labeled with SpectrumGold and covers an approximately 433 kb (chr20:51,411,118-51,844,324; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) region that encompasses the entire ZNF217 gene on chromosome 20 as well as adjacent regions.



Other Cancers

# Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555

## PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect the deletion of the LSI RB1 probe target sequence containing the RB1 gene at chromosomal location 13q14.

The approximately 202 kb SpectrumOrange LSI RB1 probe contains the complete RB1 gene and is located at 13q14.

## RESULTS OF HYBRIDIZATION

In a normal cell, the expected result for a nucleus hybridized with the LSI 13 (RB1) probe is a two orange (2O) signal pattern. In a hybridized abnormal cell containing the deletion, a one orange (1O) signal pattern will be observed.



Other Cancers

Vysis LSI AURKA SpectrumGold FISH Probe Kit



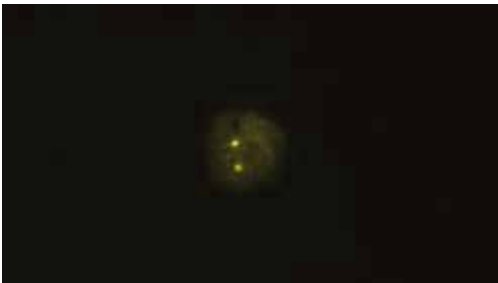
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470

PRODUCT DESCRIPTION

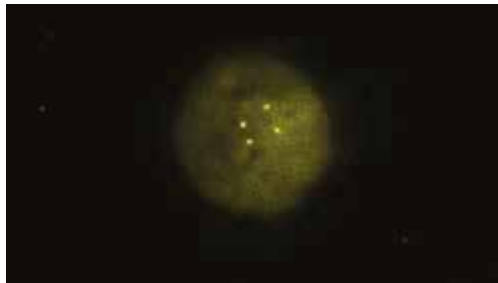
The Vysis LSI AURKA SpectrumGold FISH Probe Kit is designed to detect the copy number of Aurora Kinase A (AURKA) locus localized in chromosome 20 at the 20q13.2 band via fluorescence in situ hybridization (FISH) in human urine specimens.

The approximately 650 Kb SpectrumGold AURKA (20q13.2) probe encompasses the entire 23 Kb AURKA gene on chromosome 20 and adjacent regions, extending from a point centromeric of the AURKA gene to a point telomeric of the AURKA gene.

RESULTS OF HYBRIDIZATION



**Normal Hybridization:** In a nucleus with a normal copy number of the AURKA gene, two gold signals will be observed.



**Abnormal Hybridization:** Abnormal copy number of the AURKA gene is indicated by more than two copies of the gold probe signal. Disregard nuclei with less than 2 copies of the gold probe signal.

Other Cancers

Vysis LSI MYC SpectrumOrange FISH Probe Kit



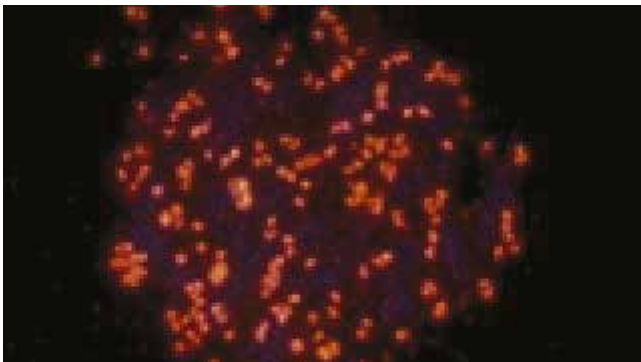
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256

PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect gain of the MYC (C-MYC) locus located on chromosome 8q24.12-q24.13. The Vysis LSI MYC Probe is an approximately 138 kb SpectrumOrange labeled probe comprising ~5 kb of the MYC gene from Exon 1 to Exon 3, thus covering essentially the entire coding region.

RESULTS OF HYBRIDIZATION

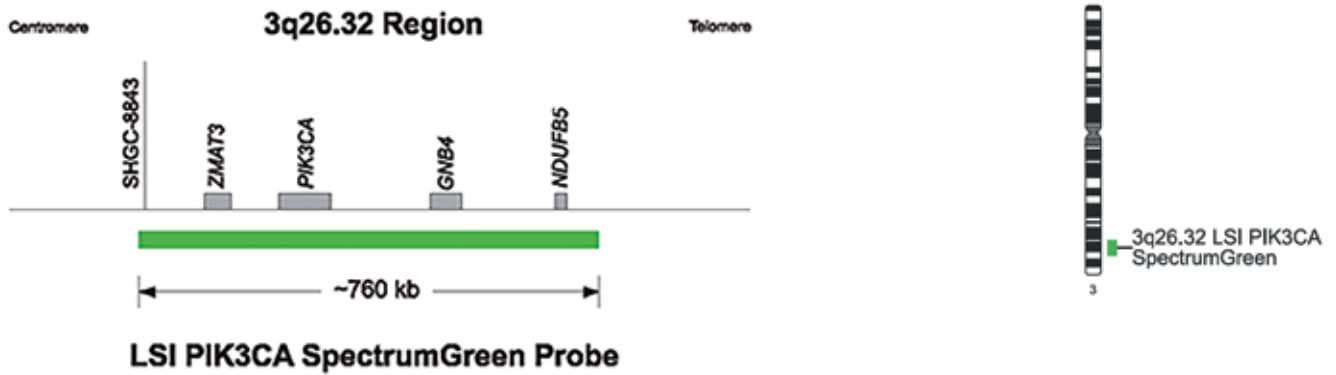
In a cell with amplification of the C-MYC locus, multiple copies of the orange signal may be seen when hybridized with the C-MYC probe.



**Normal Hybridization:** LSI C-MYC Probe hybridized to a cell. Multiple orange signals are visible.

Other Cancers

Vysis PIK3CA SpectrumGreen Probe Kit



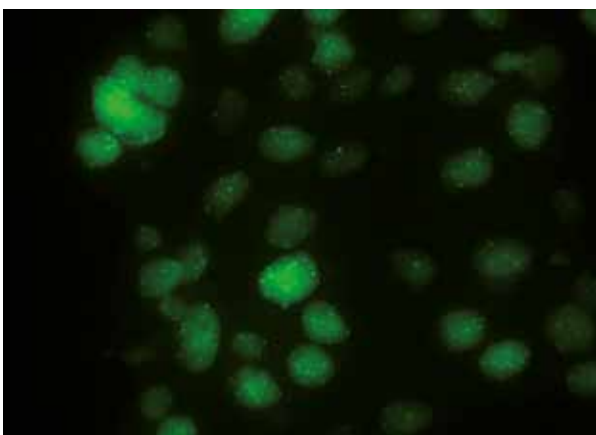
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907

**PRODUCT DESCRIPTION**

The Vysis PIK3CA SpectrumGreen FISH Probe Kit is designed to detect copy number of 3q26.32 via fluorescence in situ hybridization (FISH) in formalin- fixed, paraffin-embedded (FFPE) lung cancer tissue. The PIK3CA gene locus has been shown to be frequently amplified in many cancers, including lung, ovarian, cervical, gastric, colorectal, breast, head and neck.

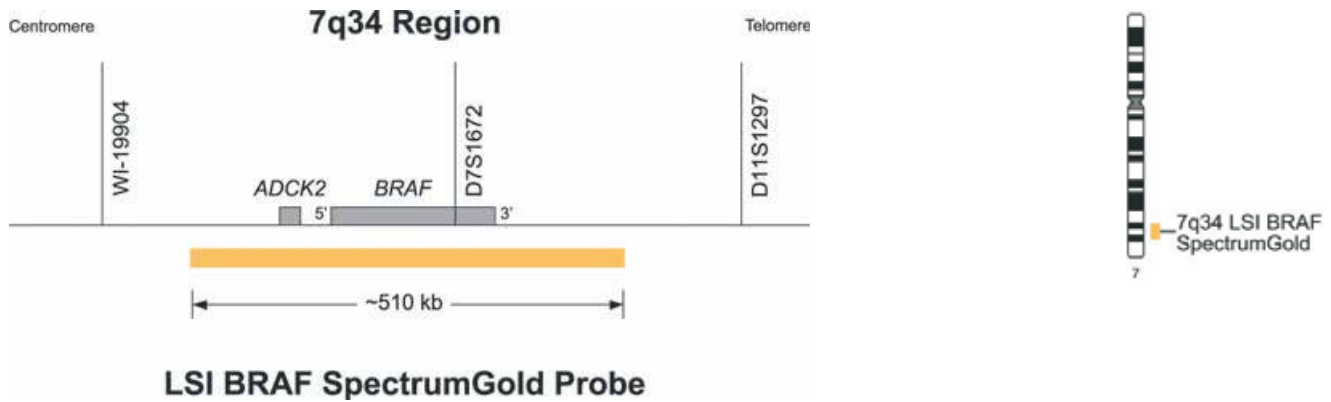
**RESULTS OF HYBRIDIZATION**

Normal diploid nuclei are expected to exhibit two green fluorescent PIK3CA signals. A chromosome set that has an extra copy (copies) of PIK3CA will exhibit more than two green fluorescent signals.



Other Cancers

# Vysis BRAF SpectrumGold FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999025028

## PRODUCT DESCRIPTION

The Vysis BRAF SpectrumGold FISH Probe Kit is designed to detect copy number of 7q34 via fluorescence in situ hybridization (FISH) in formalin fixed paraffin embedded (FFPE) lung cancer tissue.

The Vysis BRAF FISH assay is based on the ability of BRAF locus specific identifier (LSI) probe to identify copy number changes of 7q34 chromosomal locus, using a FISH test.

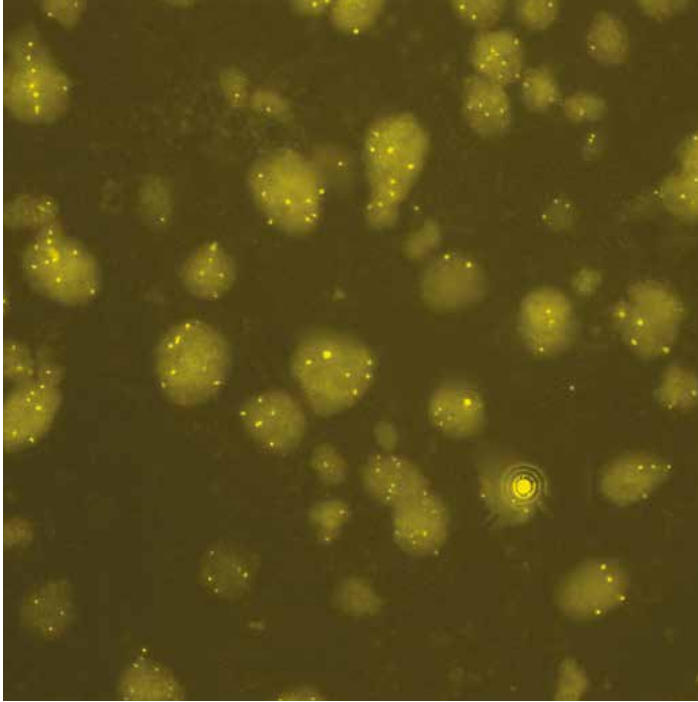
BRAF is one of three serine/threonine RAF-regulated kinases that have an important role in cellular proliferation, differentiation, and programmed cell death. It also participates in the RAS-RAF-MEK-ERK-BRAF in promoting tumorigenesis (malignant transformation of kinase BRAFs).

Mutationally activated BRAF-V600E is detected in melanoma (70%), colorectal (15%), papillary thyroid (40%), ovarian (30%), and non-small-cell lung cancers (NSCLCs) (3%). Melanoma with activating mutation of BRAF is more likely to have copy gains at the BRAF locus. BRAF copy number gains have been identified in both follicular thyroid cancer and malignant melanoma, and may occur through either gene amplification or chromosome 7 polysomy. The BRAF copy number gains are expected in lung cancer, where chromosome 7 is also amplified.

The approximately 510 kb (chr7:139912659-140422776; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) LSI BRAF (7q34) SpectrumGold probe contains the entire BRAF gene on chromosome 7.

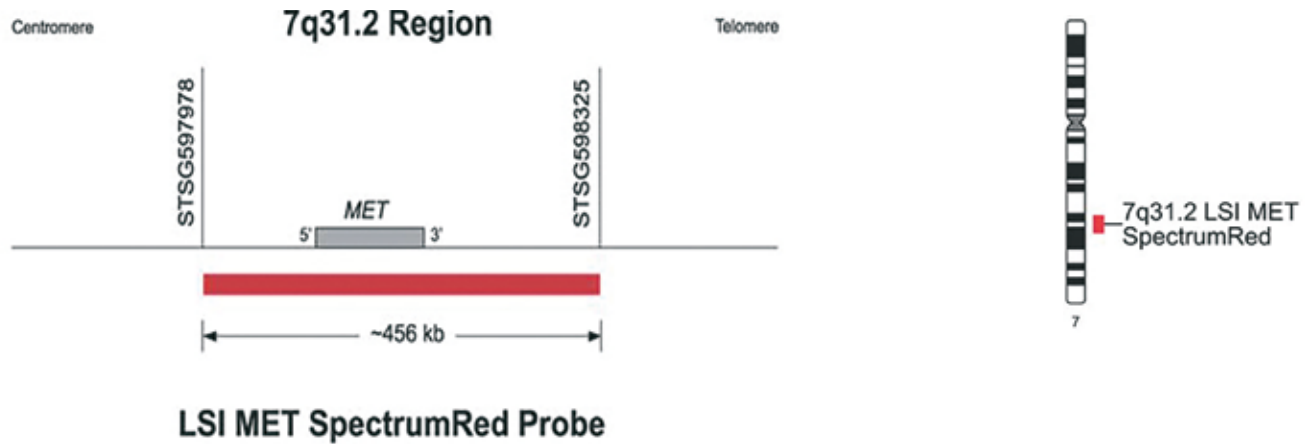
## RESULTS OF HYBRIDIZATION

Normal diploid nuclei or metaphase chromosome sets are expected to exhibit two gold fluorescent BRAF signals, which correspond to two target loci on chromosome homologues to which the BRAF fluorescent probe is bound: 7q34. A chromosome set that has an extra copy (copies) of BRAF (7q34) will exhibit more than two gold fluorescent signals.



Other Cancers

Vysis MET SpectrumRed FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MET SpectrumRed FISH Probe Kit (CE)	20 µL	06N05-020	00884999024984

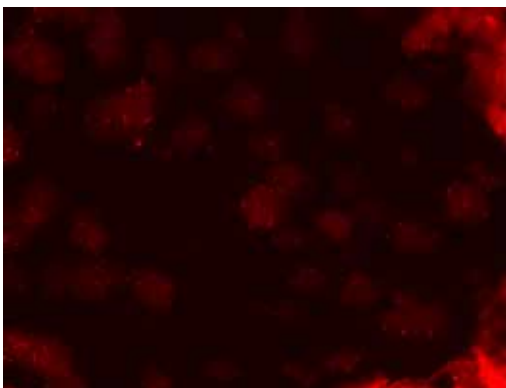
**PRODUCT DESCRIPTION**

The Vysis MET SpectrumRed FISH Probe Kit is designed to detect copy number of 7q31.2 via fluorescence in situ hybridization (FISH) in formalin fixed paraffin embedded (FFPE) lung cancer tissue.

The approximately 456 kb (chr7:115971431-116427460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumRed probe contains the entire MET gene on chromosome 7.

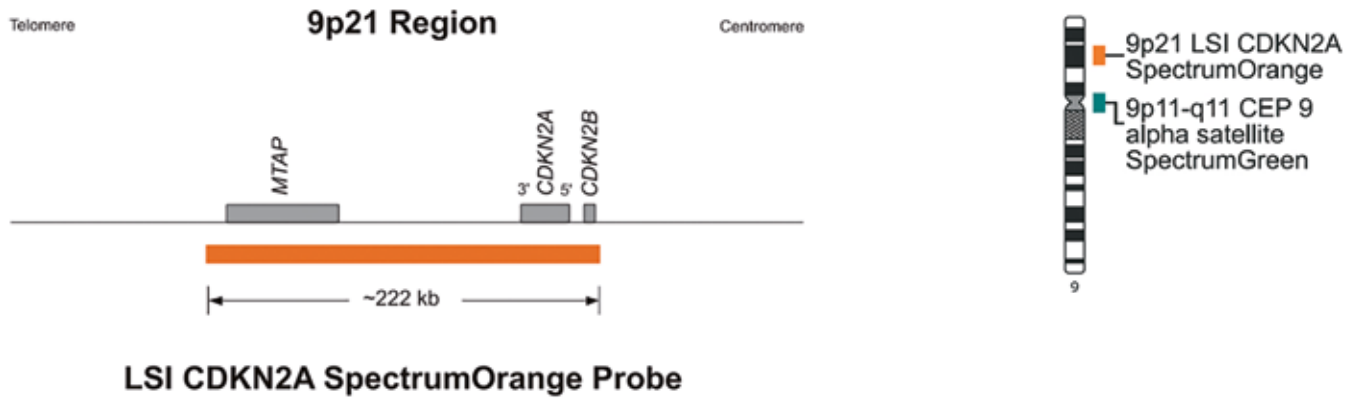
**RESULTS OF HYBRIDIZATION**

In a nucleus with normal copy number of the MET gene, two red signals will be observed. Abnormal copy number of the MET gene is indicated by more than two copies of the red probe signal.



Other Cancers

Vysis CDKN2A / CEP 9 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CDKN2A / CEP 9 FISH Probe Kit (CE)	20 µL	04N61-020	00884999009295

PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect deletion of the LSI CDKN2A (p16) probe target within the 9p21 chromosome region.

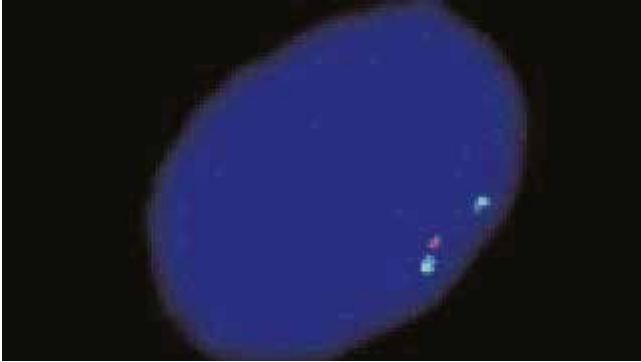
Alterations of the 9p21 locus including the tumor suppressor gene CDKN2A (p16) are implicated in different Meningiomas and Gliomas. Studies support the association of CDKN2A homozygous deletion with malignant progression and suggest that it is a marker of worse prognosis in anaplastic oligodendrogliomas. The Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes have been used in several cytogenetic studies to detect losses of the CDKN2A gene. Using this probe set as well as other relevant markers (eg, p53, RB1, 1p36, 19q13, all Vysis FISH probes), Kramar, et al investigated 82 samples from 81 patients with histologically confirmed glial tumors. In a study using the Vysis LSI CDKN2A SpectrumOrange/ CEP 9 SpectrumGreen Probes on 189 confirmed glioblastoma patients less than 50 years old, Korshunov, et al found 9p21 deletion to be correlated with an unfavorable prognosis.

Vysis LSI CDKN2A/CEP 9 Probes are provided in one vial as a mixture of the LSI CDKN2A (p16) probe labeled with SpectrumOrange and the CEP 9 probe labeled with SpectrumGreen. The LSI CDKN2A probe spans approximately 222 kb and contains a number of genes including MTAP, CDKN2A, and CDKN2B. The LSI CDKN2A contains a number of genetic loci including D9S1749, p16 (INK4B), p14 (ARF), D9S1748, p15(INK4B), and D9S1752. The CEP 9 SpectrumGreen probe hybridizes to alpha satellite sequences specific to chromosome 9.



## RESULTS OF HYBRIDIZATION

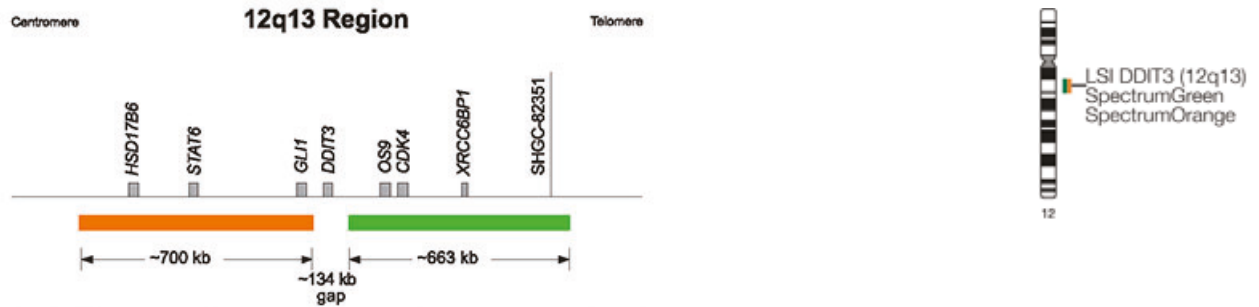
In a normal sample, the expected pattern for a nucleus hybridized with the Vysis LSI CDKN2A / CEP 9 Probe is the two orange, two green (2O2G) signal pattern. If a deletion at the 190 kb region covered by the LSI p16 probe occurs on one chromosome 9 homolog and both centromeres from chromosome 9 are retained, the one orange, two green (1O2G) signal pattern is expected. Very small deletions may occur that do not delete the entire LSI p16 probe target and therefore will not be detected.



**Abnormal Hybridization:** Vysis LSI CDKN2A / CEP 9 Probe hybridized to a nucleus exhibiting the one orange and two green signal (1O2G) pattern. One p16 gene locus is deleted and both chromosome 9 homologs are present as indicated by one orange and two green signals, respectively.

Sarcomas

# Vysis DDIT3 Break Apart FISH Probe Kit



**LSI DDIT3 Dual Color, Break Apart Rearrangement Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis DDIT3 Break Apart FISH Probe Kit (CE)	20 µL	03N57-020	00884999005778

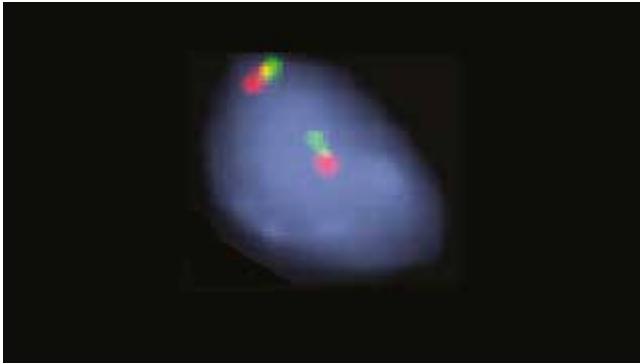
## PRODUCT DESCRIPTION

This fluorescence in situ Hybridization (FISH) probe is intended to detect chromosome rearrangements involving the DDIT3 (CHOP) gene located on chromosome 12q13.

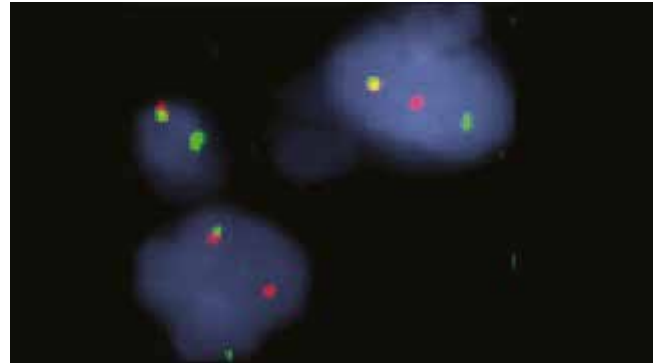
The Vysis LSI DDIT3 (12q13) Dual Color, Break Apart Rearrangement Probe consists of a mixture of 2 FISH DNA probes. The first probe, an ~700 kb probe labeled in SpectrumOrange lies proximal to the DDIT3 gene. The second probe labeled in SpectrumGreen extends distally from the DDIT3 gene and is ~663 kb in length.

## RESULTS OF HYBRIDIZATION

In a normal cell that lacks a t(12q13) in the DDIT3 gene region, a two fusion signal pattern will be observed which reflects the two intact copies of DDIT3. In an abnormal cell with a simple t(12q13), a one fusion, one green, and one orange signal pattern will be expected.



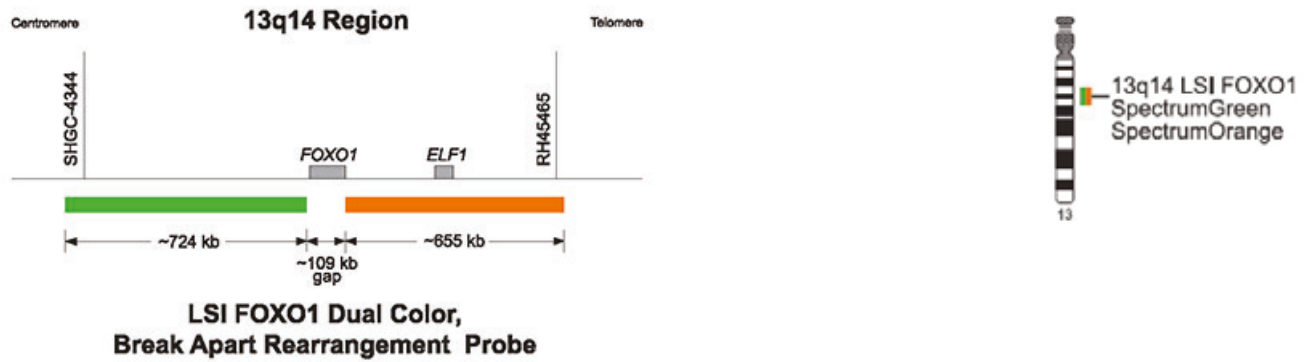
**Normal Hybridization:** Result of the hybridization of the Vysis LSI DDIT3 (12q13) Dual Color, Break Apart Rearrangement Probe, showing the two fusion signal pattern as observed in normal interphase cells.



**Abnormal Hybridization:** Abnormal cells hybridized with the Vysis LSI DDIT3 (12q13) Dual Color, Break Apart Rearrangement Probe. Two of the cells in this image show the one fusion, one orange, and one green signal pattern indicative of a rearrangement of one copy of the DDIT3 gene region.

Sarcomas

# Vysis FOXO1 Break Apart Fish Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis FOXO1 Break Apart FISH Probe Kit (CE)	20 µL	03N60-020	00884999005808

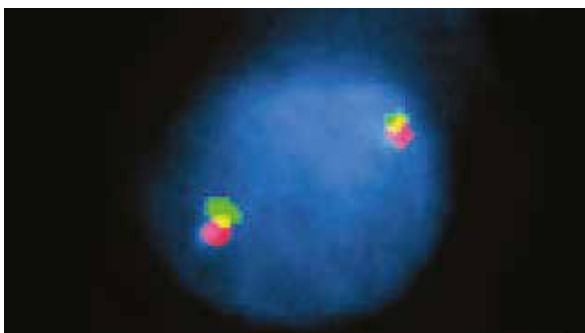
## PRODUCT DESCRIPTION

This fluorescence in situ Hybridization (FISH) probe is intended to detect chromosome rearrangements involving the FOXO1 (FKH1, FKHR) gene located on chromosome 13q14.

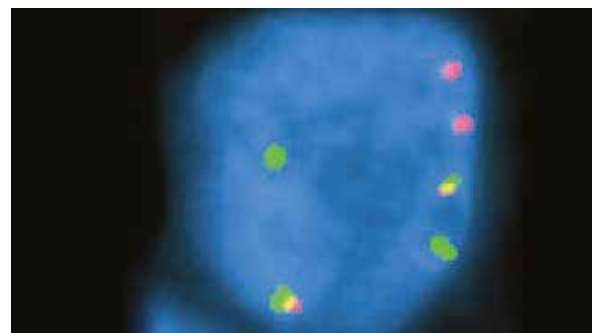
The Vysis LSI FOXO1 (13q14) Dual Color, Break Apart Rearrangement Probe consists of a mixture of 2 FISH DNA probes. The first probe, a 724 kb probe labeled in SpectrumGreen, lies proximal to the FOXO1 gene. The second probe, labeled in SpectrumOrange, extends distally from the FOXO1 gene and is approximately 655 kb in length. The telomeric SpectrumOrange probe contains the ELF1 gene.

## RESULTS OF HYBRIDIZATION

In a normal cell that lacks a t(13q14) in the FOXO1 gene region, a two fusion signal pattern will be observed.



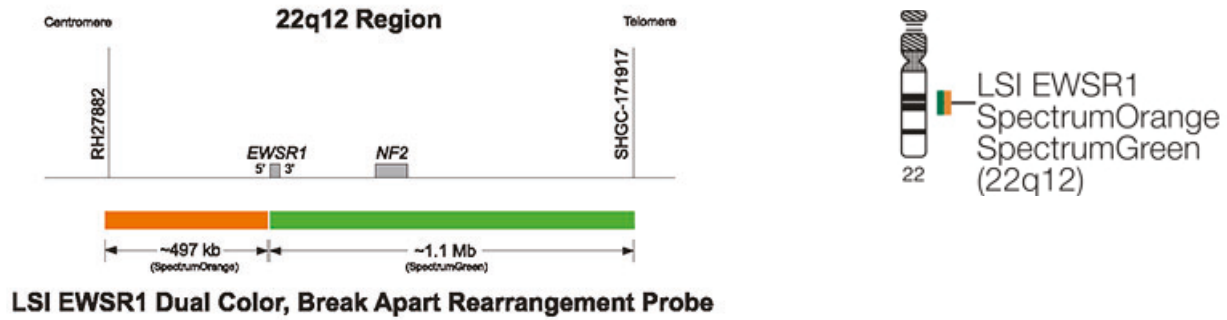
**Normal Hybridization:** Result of the hybridization of the Vysis LSI FOXO1 (13q14) Dual Color Break Apart Rearrangement Probe, showing the two fusion signal pattern as observed in normal interphase cells.



**Abnormal Hybridization:** Abnormal cells hybridized with the Vysis LSI FOXO1 (13q14) Dual Color Break Apart Rearrangement Probe. The cell in this image shows fusion, orange and green signals suggesting rearrangement of the FOXO1 gene region. The extra signals in the cell suggest aneuploidy.

Sarcomas

# Vysis LSI EWSR1 (22q12) Dual Color Break Apart Rearrangement FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI EWSR1 Break Apart FISH Probe Kit (CE)	20 µL	03N59-020	00884999005792

## PRODUCT DESCRIPTION

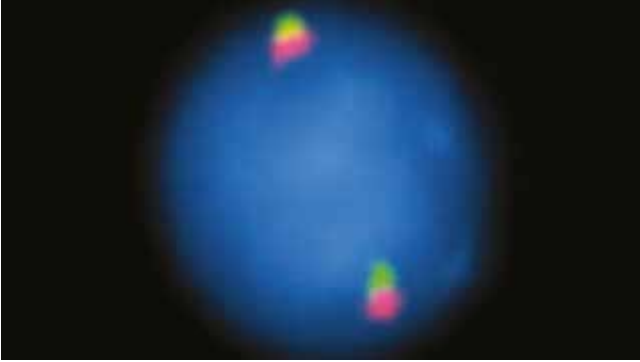
The Vysis LSI EWSR1 Dual Color Break Apart Rearrangement FISH Probe Kit is intended to detect chromosome rearrangements involving the EWSR1 gene region on chromosome 22q12.

This probe kit is a mixture of 2 FISH DNA probes. The first probe, a 497 kb probe labeled in SpectrumOrange, flanks the 5' side of the EWSR1 gene, and extends inward into intron 4. The second probe, a 1100 kb probe labeled in SpectrumGreen, flanks the 3' side of the EWSR1 gene. The known break points within the EWSR1 gene are restricted to introns 7 through 10.

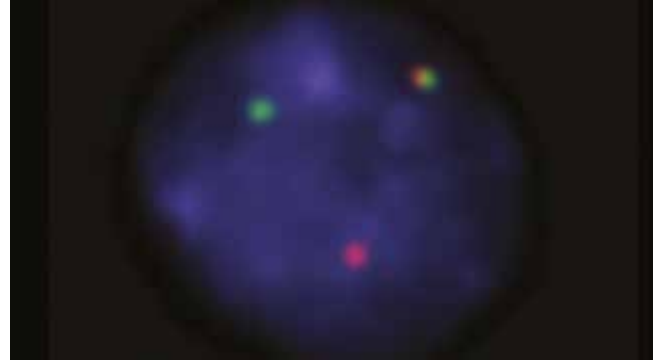
## RESULTS OF HYBRIDIZATION

In an abnormal cell with a simple t(22q12), a one fusion, one green, one orange signal pattern will be expected.

In a normal cell that lacks a t(22q12) in the EWSR1 gene region, a two fusion signal pattern will be observed reflecting the two intact copies of EWSR1.



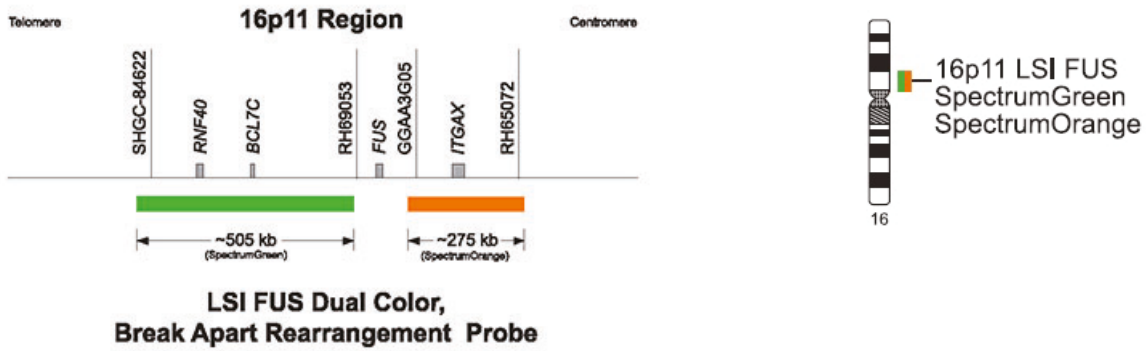
**Normal Hybridization:** Result of the hybridization of the Vysis LSI EWSR1 (22q12) Dual Color, Break Apart Rearrangement Probe as observed in a normal interphase cell.



**Abnormal Hybridization:** An abnormal cell hybridized with the Vysis LSI EWSR1 (22q12) Dual Color, Break Apart Rearrangement Probe. The cell in this image shows the one fusion, one orange, and one green signal pattern indicative of a rearrangement of one copy of the EWSR1 region.

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Vysis FUS Break Apart FISH Probe Kit



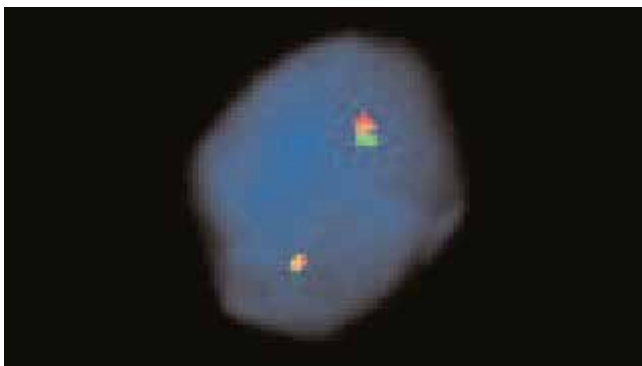
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI FUS Break Apart FISH Probe Kit (CE)	20 µL	03N58-020	00884999005785

PRODUCT DESCRIPTION

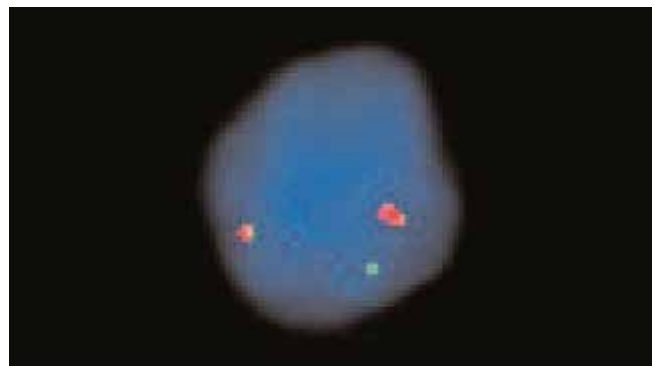
This fluorescence in situ hybridization (FISH) probe is intended to detect chromosome rearrangements involving the FUS gene located on chromosome 16p11. The Vysis LSI FUS (16p11) Dual Color, Break Apart Rearrangement Probe is a mixture of 2 probes. The first probe, a 505 kb probe labeled in SpectrumGreen, lies distal to the FUS gene. The second probe, labeled in SpectrumOrange, extends proximally from the FUS gene and is 275 kb in length.

RESULTS OF HYBRIDIZATION

The anticipated signal pattern in abnormal cells having a chromosomal breakpoint within the gap between the two probe targets on one chromosome 16 is one orange, one green, and one fusion signal. Other patterns may be observed if additional genetic alterations are present. Hybridization of this probe to interphase nuclei of normal cells is expected to produce two pair of overlapping, or nearly overlapping, orange and green (yellow fusion) signals.



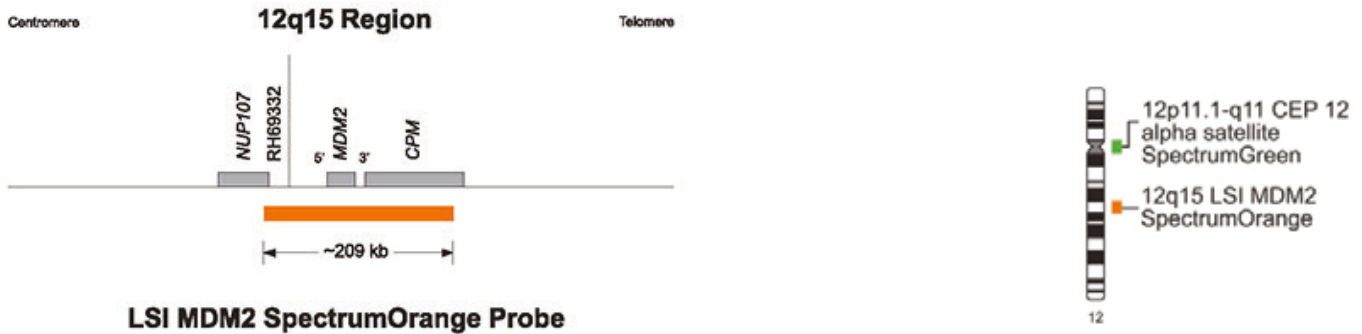
**Normal Hybridization:** Normal cell hybridization using the Vysis LSI FUS (16p11) Dual Color, Break Apart Rearrangement Probe.



**Abnormal Hybridization:** Abnormal cell hybridization using the Vysis LSI FUS (16p11) Dual Color, Break Apart Rearrangement Probe.

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Vysis MDM2 / CEP 12 FISH Probe Kit



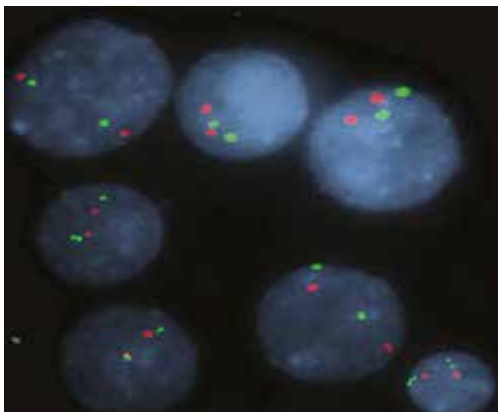
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MDM2/CEP 12 FISH Probe Kit (CE)	10 µL	01N15-010	00884999035362

PRODUCT DESCRIPTION

The Vysis MDM2/CEP 12 FISH Probe Kit is intended to detect the copy number of the LSI MDM2 probe target located at chromosome 12q15 using the fluorescence in situ hybridization (FISH) technique.

The approximately 209 kb (chr12:67,420,133-67,629,503; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe spans MDM2 gene on 12q15. The Spectrum Green CEP 12 probe hybridizes to alphoid sequences found within the centromere of chromosome 12 (12p11.1-q11).

RESULTS OF HYBRIDIZATION

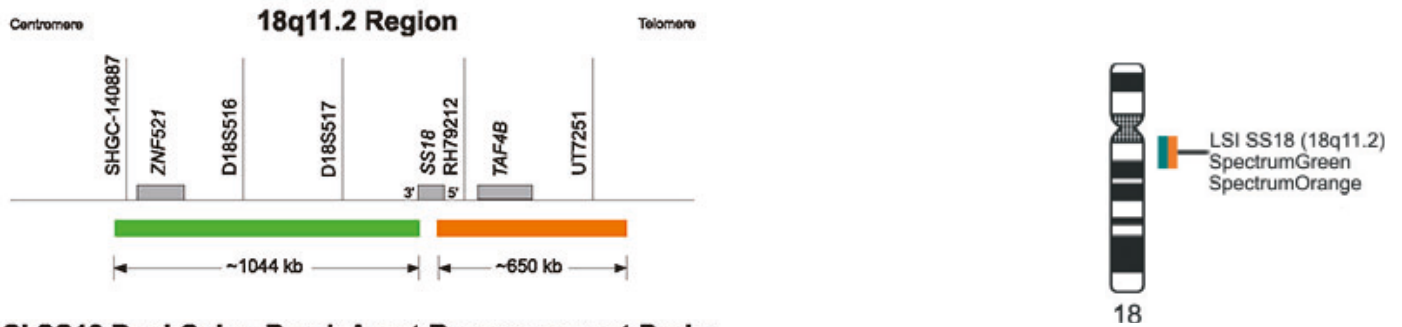


**Normal Hybridization:** Nuclei or metaphase chromosome sets lacking the MDM2 amplification are expected to exhibit two orange and two green signals. Amplification of MDM2 would exhibit more than two orange signals and amplification of centromere 12 would exhibit more than two green signals.



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# Vysis LSI SS18 Break Apart FISH Probe Kit



## LSI SS18 Dual Color, Break Apart Rearrangement Probe

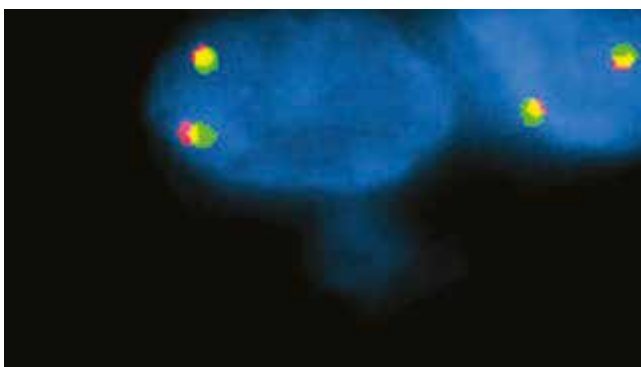
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SS18 Break Apart FISH Probe Kit (CE)	20 µL	03N61-020	00884999005815

### PRODUCT DESCRIPTION

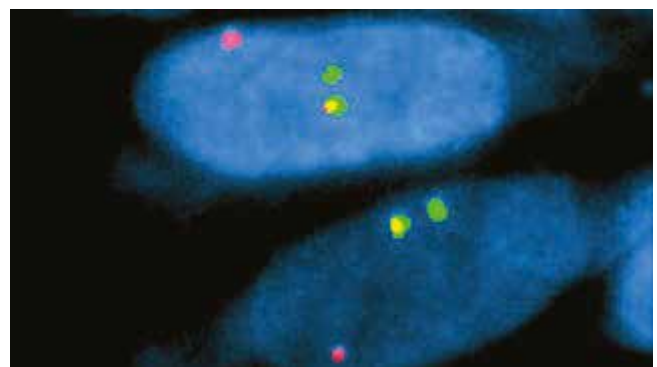
This fluorescence in situ hybridization (FISH) probe is intended to detect chromosome rearrangements involving the SS18 (SYT) gene located on chromosome 18q11.2. The Vysis SS18 Dual Color, Break Apart Rearrangement Probe consists of a mixture of 2 FISH DNA probes. The first probe, a ~650 kb probe labeled in SpectrumOrange, extends distally from the SS18 gene. The second probe labeled in SpectrumGreen lies 3' or proximal to the SS18 gene and is 1044kb in length.

### RESULTS OF HYBRIDIZATION

In a normal cell that lacks a t(18q11.2) in the SS18 gene region, a two fusion signal pattern will be observed, reflecting the two intact copies of SS18. In an abnormal cell with a simple t(18q11.2), a one fusion, one green and one orange signal pattern will be expected.



**Normal Hybridization:** Result of the hybridization of the Vysis LSI SS18 (18q11.2) Dual Color Break Apart Rearrangement Probe, showing the two fusion signal pattern as observed in normal interphase cells. (Photo courtesy of Arie Perry, M.D., Washington University School of Medicine.)

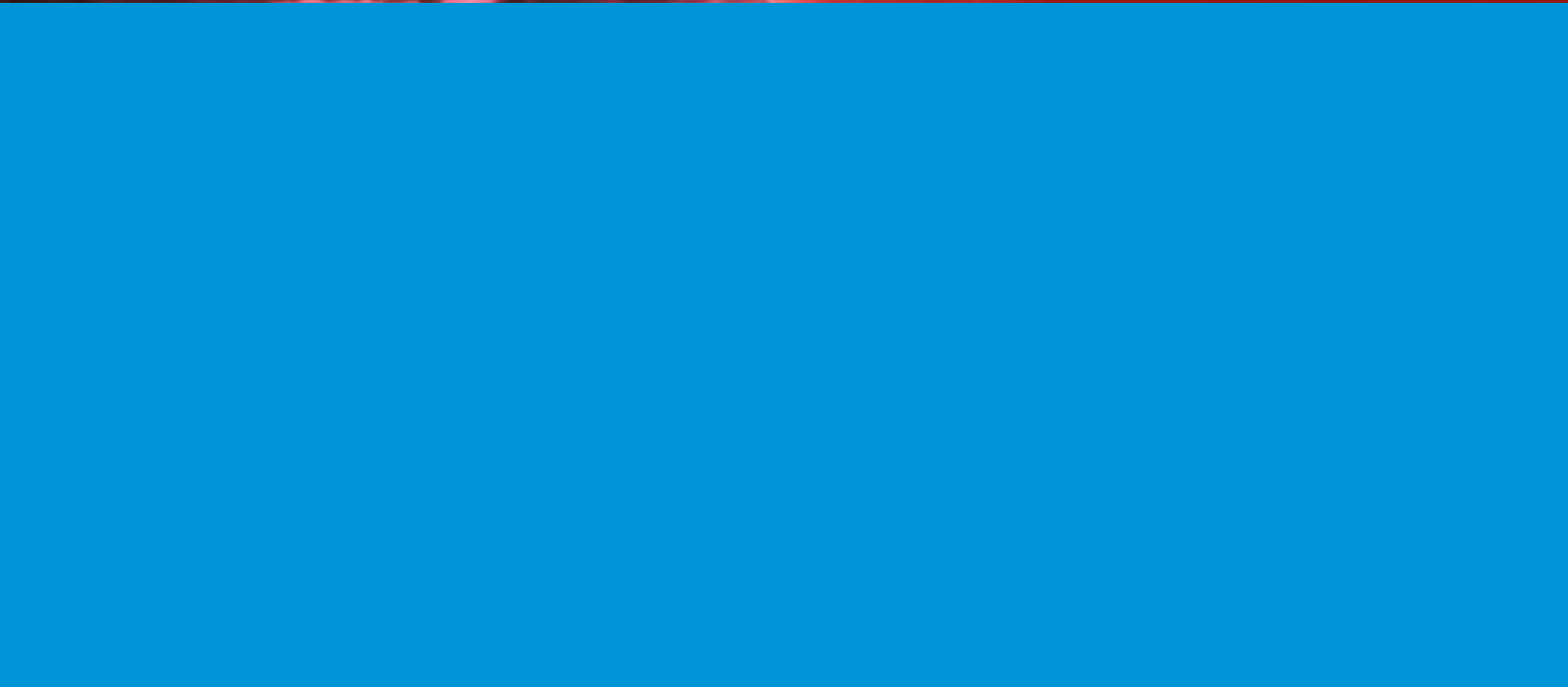
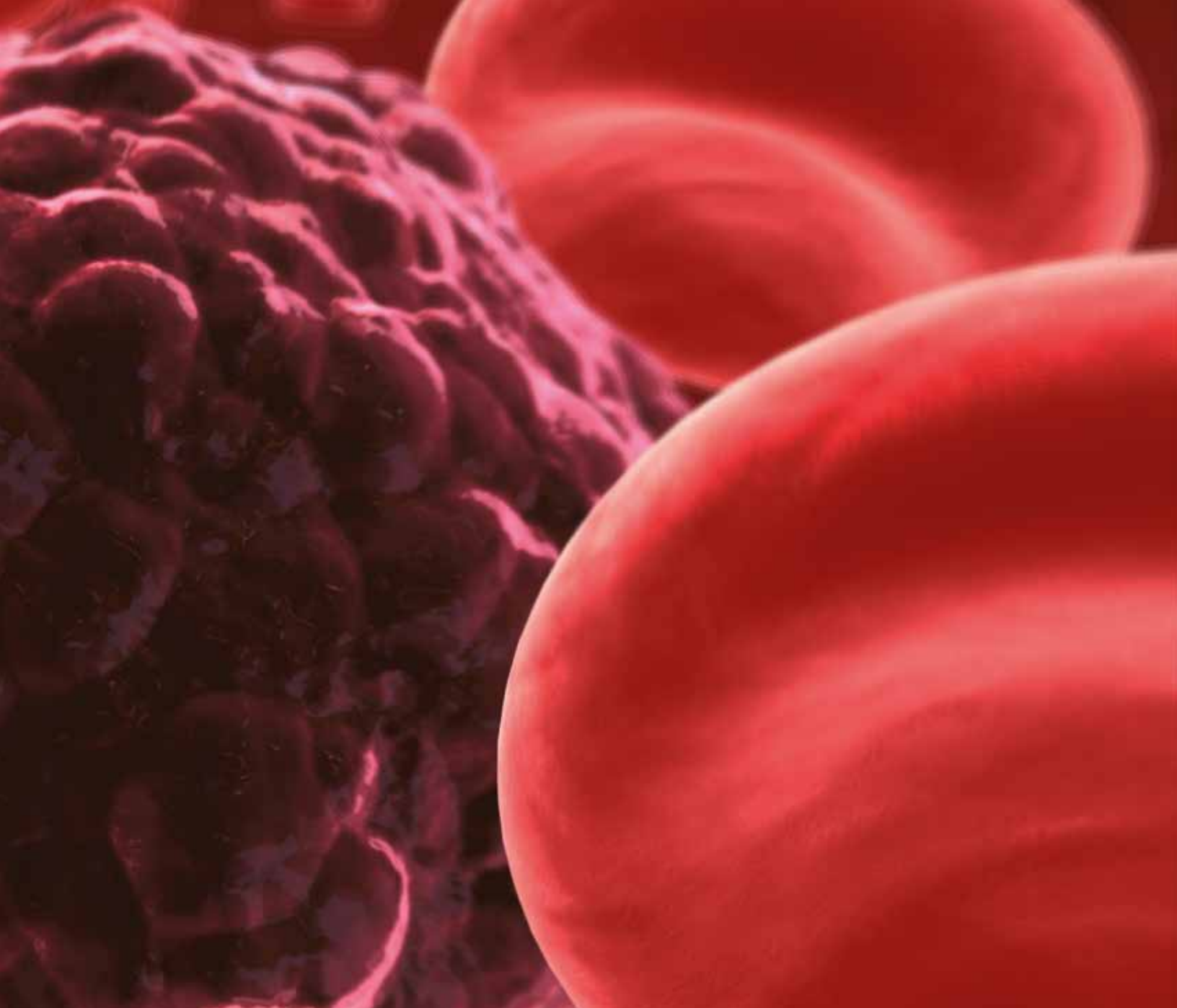


**Abnormal Hybridization:** Abnormal cells hybridized with the Vysis LSI SS18 (18q11.2) Dual Color, Break Apart Rearrangement Probe. The cells in this image show the one fusion, one orange and one green signal pattern indicative of a rearrangement of one copy of the SS18 gene region. (Photo courtesy of Arie Perry, M.D., Washington University School of Medicine.)

# VYSIS FISH PROBES: HEMATOLOGY

Abbott offers a wide range of DNA fluorescence *in situ* hybridization (FISH) products for the effective and rapid identification of genetic aberrations associated with hematopoietic disorders. Used as single probes, or in multi-color probe sets, these products are designed to identify

various chromosome translocations, deletions, chromosomal gains, as well as other rearrangements associated with specific hematopoietic disorders. These probes can be applied to a variety of sample types prepared for metaphase or interphase analysis.



PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>ACUTE LYMPHOCTIC LEUKEMIA</b>				
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029	80
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036	80
Vysis ETV6/RUNX1 DF FISH Probe Kit (CE)	10 µL	05N96-010	00884999015487	82
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Translocation Probe Set (CE)	20 µL	08L66-020	00884999031562	84
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L57-020	00884999031470	86
Vysis LSI TRA/D Dual Color Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N41-020	00884999014923	88
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-008	00884999027077	89
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-008	00884999027008	89
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 (CE)	5 Slides	07J21-001	00884999027039	89
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 (CE)	5 Slides	07J21-002	00884999027046	89
<b>ACUTE MYELOGENOUS LEUKEMIA</b>				
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329	91
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-008	00884999027077	92
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-008	00884999027008	92
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 (CE)	5 Slides	07J21-001	00884999027039	92
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 (CE)	5 Slides	07J21-002	00884999027046	92
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029	94
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036	94
Vysis EGR1 FISH Probe Kit - SC (Specimen Characterization) (CE)	20 µL	04N37-001	00884999038165	96
Vysis ETV6/RUNX1 DF FISH Probe Kit (CE)	10 µL	05N96-010	00884999015487	97
Vysis LSI CBF B Break Apart FISH Probe Kit (CE)	20 µL	05N44-020	00884999014930	98
Vysis LSI D7S522/CEP 7 FISH Probe Kit (CE)	20 µL	05N08-020	00884999014374	99
Vysis LSI D7S486/CEP 7 FISH Probe Kit (CE)	20 µL	05N07-020	00884999014367	100
Vysis LSI EGR1/D5S23, D5S721 Dual Color Probe Kit (CE)	20 µL	08L68-020	00884999031586	101
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L57-020	00884999031470	103

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>ACUTE MYELOGENOUS LEUKEMIA</b>				
Vysis LSI RPN1/MECOM DF FISH Probe Kit (CE)	10 µL	06N60-010	00884999034914	105
Vysis LSI RUNX1/RUNX1T1 DF FISH Probe Kit (CE)	20 µL	08L70-020	00884999031609	107
Vysis PML/RARA DC Single Fusion FISH Probe Kit (CE)	20 µL	05N45-020	00884999014947	109
<b>CHRONIC EOSINOPHILIC LEUKEMIA</b>				
Vysis 4q12 Tri-Color Rearrangement FISH Probe Kit (CE)	20 µL	05N52-020	00884999015005	111
<b>CHRONIC LYMPHOCTIC LEUKEMIA</b>				
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (CE)	20 µL	08L64-020	00884999031548	113
Vysis LSI D13S25 (13q14.3) SpectrumOrange Probe (CE)	20 µL	01N37-020	00884999000797	114
Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-012	00884999027084	115
Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-012	00884999027015	115
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 (CE)	5 Slides	07J21-001	00884999027039	115
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 (CE)	5 Slides	07J21-002	00884999027046	115
Vysis CLL FISH Probe Kit (CE)	20 Assays	04N02-022	00884999045101	117
Vysis LSI ATM (11q22.3) SpectrumOrange Probe (CE)	20 µL	01N33-020	00884999000759	120
Vysis LSI ATM/CEP 11 FISH Probe Kit (CE)	20 µL	05N55-020	00884999015043	122
Vysis LSI TP53/CEP 17 FISH Probe Kit (CE)	20 µL	05N56-020	00884999015050	123
Vysis LSI MYB SpectrumAqua FISH Probe Kit (CE)	20 µL	05N40-020	00884999014916	124
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555	125
Vysis MDM2/CEP 12 FISH Probe Kit (CE)	10 µL	01N15-010	00884999035362	126
<b>CHRONIC MYELOGENOUS LEUKEMIA</b>				
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-008	00884999027077	127
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA ProbeKit (without control slides) (CE)	20 Assays	07J20-008	00884999027008	127
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 (CE)	5 Slides	07J21-001	00884999027039	127
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 (CE)	5 Slides	07J21-002	00884999027046	127
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029	128

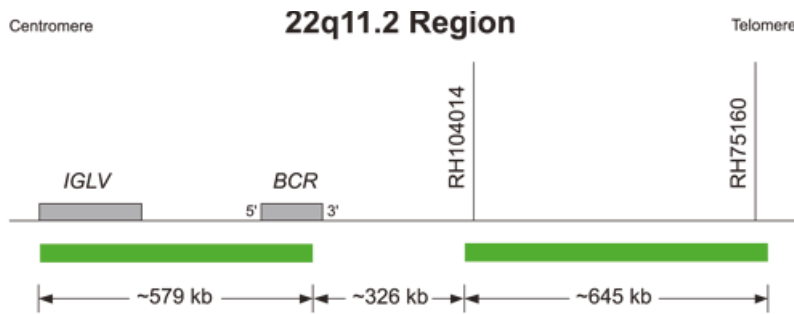
PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>CHRONIC MYELOGENOUS LEUKEMIA</b>				
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036	128
Vysis LSI 9q34 SpectrumAqua FISH Probe Kit (CE)	20 µL	05N53-020	00884999015012	131
Vysis LSI BCR, ABL ES Dual Color Translocation Probe Kit (CE)	20 µL	08L55-020	00884999031456	133
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	20 µL	08L10-001	00884999031166	135
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	50 µL	08L10-002	00884999031173	135
Vysis LSI BCR, ABL Dual Color, Single Fusion Translocation Probe Kit (CE)	20 µL	08L56-050	00884999031463	137
<b>MULTIPLE MYELOMA</b>				
Vysis LSI IGH/FGFR3 DF FISH Probe Kit (CE)	20 µL	01N69-020	00884999000834	139
Vysis LSI 13 (13q14) SpectrumGreen Probe (CE)	20 µL	08L67-020	00884999031579	141
Vysis LSI 13q34 SpectrumGreen FISH Probe Kit (CE)	20 µL	05N34-020	00884999014879	142
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555	143
Vysis LSI CCND1 Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N38-020	00884999014909	144
Vysis LSI D5S23, D5S721/CEP 9/CEP 15 FISH Probe Kit (CE)	20 µL	05N35-020	00884999014886	146
Vysis LSI D13s319/13q34 FISH Probe Kit (CE)	20 µL	05N37-020	00884999014893	148
Vysis LSI IGH/MAF DF FISH Probe Kit (CE)	20 µL	05N32-020	00884999014855	150
Vysis LSI TP53/CEP 17 FISH Probe Kit (CE)	20 µL	05N56-020	00884999015050	152
<b>MYELOYDYSPLASTIC SYNDROME</b>				
Vysis LSI RPN1/MECOM DF FISH Probe Kit (CE)	10 µL	06N60-010	00884999034914	153
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-008	00884999027077	155
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-008	00884999027008	155
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 (CE)	5 Slides	07J21-001	00884999027039	155
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 (CE)	5 Slides	07J21-002	00884999027046	155
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329	157
Vysis ETV6 Break Apart FISH Probe Kit (CE)	20 µL	04N09-020	00884999007932	158
Vysis LSI D7S522/CEP 7 FISH Probe Kit (CE)	20 µL	05N08-020	00884999014374	159

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>MYELODYSPLASTIC SYNDROME</b>				
Vysis LSI D7S486/CEP7 FISH Probe Kit (CE)	20 µL	05N07-020	00884999014367	160
Vysis LSI EGR1/D5S23, D5S721 Dual Color Probe Kit (CE)	20 µL	08L68-020	00884999031586	161
<b>NON-HODGKIN'S LYMPHOMA</b>				
Vysis LSI CCND1/CEP11 FISH Probe Kit (CE)	20 µL	03N88-020	00884999006263	163
<b>SEX MISMATCHED BONE-MARROW TRANSPLANTATION</b>				
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-050	00884999027091	164
<b>OTHER HEMATOLOGY</b>				
Vysis LSI 21 SpectrumOrange Probe (CE)	20 µL	08L54-020	00884999031449	165
Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe Set (CE)	20 µL	08L60-020	00884999031500	166
Vysis LSI PML/RARA Dual Color, Dual Fusion Translocation Probe Kit (CE)	20 µL	01N36-020	00884999000780	167
Vysis LSI MYC Break Apart Rearrangement Probe Kit (CE)	20 µL	01N63-020	00884999000827	169
Vysis IGH/CCND1 XT DF FISH Probe Kit (CE)	20 µL	05N33-020	00884999014862	171
Vysis LSI CCND1 Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N38-020	00884999014909	173
Vysis LSI RARA Break Apart FISH Probe Kit (CE)	20 µL	05N46-020	00884999014954	175
Vysis LSI IGH/MALT1 DF FISH Probe Kit (CE)	20 µL	05N47-020	00884999014961	177
Vysis LSI BIRC3/MALT1 DF FISH Probe Kit (CE)	20 µL	05N50-020	00884999014985	179
Vysis LSI BCL2 Break Apart FISH Probe kit (CE)	20 µL	05N51-020	00884999014992	181
Vysis LSI CCND1/CEP11 FISH Probe Kit (CE)	20 µL	03N88-020	00884999006263	182
Vysis LSI CSF1R/D5S23, D5S721 FISH Probe Kit (CE)	20 µL	05N03-020	00884999014336	183
Vysis ETV6 Break Apart FISH Probe Kit (CE)	20 µL	04N09-020	00884999007932	184
Vysis LSI IGH/MYC/CEP8 Tri-Color Dual Fusion FISH Probe Kit (CE)	20 µL	04N10-020	00884999007949	185
Vysis LSI PDGFRB Break Apart FISH Probe Kit (CE)	10 µL	06N24-010	00884999025585	187
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329	189
Vysis PML/RARA DC Single Fusion FISH Probe Kit (CE)	20 µL	05N45-020	00884999014947	190
Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L63-020	00884999012394	192
Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe (CE)	20 µL	05N48-020	00884999012783	193
Vysis LSI IGH/CCND1 DF FISH Probe Kit (CE)	20 µL	08L58-020	00884999031487	194

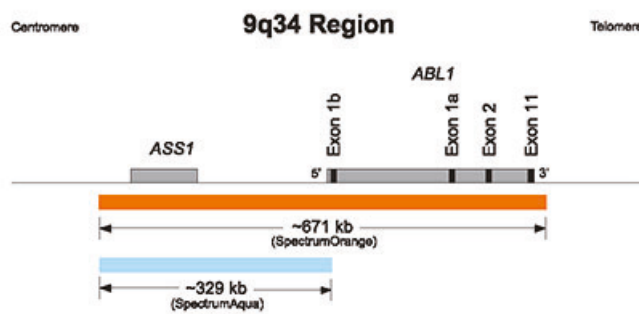
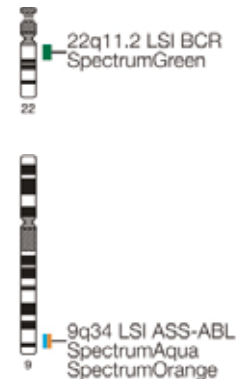


Acute Lymphocytic Leukemia (ALL)

Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe



**LSI BCR SpectrumGreen Dual Fusion Probe**



**LSI ASS1-ABL1 Dual Fusion Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036



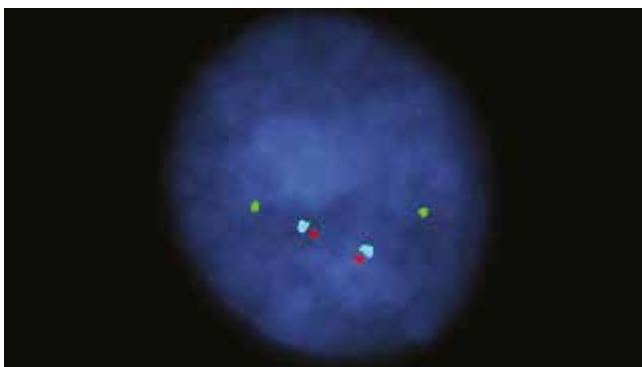
## PRODUCT DESCRIPTION

The Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe Kit is intended to detect the t(9;22)(q34;q11.2) reciprocal translocation involving the BCR and ABL1 gene regions using the fluorescence in situ hybridization (FISH) technique.

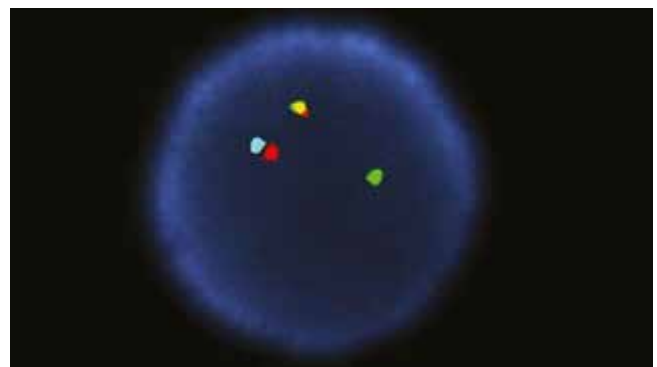
The t(9;22) translocation which fuses the BCR gene on chromosome 22q11.2 and the ABL1 gene on chromosome 9q34 is observed by cytogenetics in greater than 80% of patients with chronic myelogenous leukemia (CML). In CML cases lacking a cytogenetically detectable translocation, the BCR/ABL1 fusion can still almost always be detected by FISH or other molecular techniques. BCR/ ABL1 fusions also occur in a portion of acute lymphocytic leukemia cases and more rarely in acute myeloid leukemia. In about 15 to 20 percent of CML cases, the t(9;22) results in the loss of genetic material flanking the BCR and/or ABL1 breakpoints on the derivative 9 chromosome. This loss can prevent the production of the highly specific two-fusion signal patterns expected of dual fusion probes and balanced translocations. If both BCR and ABL1 targets are deleted on the der(9) chromosome, low-level random overlap of orange and green signals within normal cells (producing a 1 orange, 1 green, 1 fusion pattern) cannot be discriminated from low-level true BCR/ABL1 fusions producing the same pattern. The Tri-Color design of this test uses a probe in a third color (aqua) on the centromeric side of the ABL1 breakpoint, which co-localizes with the orange signal in a random orange/green signal fusion, but is absent from a true BCR/ABL1 molecular fusion on the der(22) chromosome. The probes in this kit have been used in published papers to detect low levels of positive cells in CML patients who were undergoing therapy and had deletions of FISH signals on the derivative chromosome 9.

The approximately 671 kb (chr9:132255025-132926107; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI ABL1 probe spans the ABL1 and ASS1 genes on chromosome 9q34. The approximately 329 kb (chr9:132255025-132584487; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumAqua LSI ASS1 probe overlaps with part of the area covered by the SpectrumOrange probe, spans the ASS1 gene and lies centromeric to the ABL1 gene breakpoint regions. The SpectrumGreen LSI BCR probe consists of two probes located at chromosome 22q11.2. The centromeric segment of the SpectrumGreen probe is approximately 579 kb (chr22:21382633-21962088; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), and contains the majority of the BCR gene. The telomeric segment of the SpectrumGreen probe is approximately 645 kb (chr22:22288218-22932815; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), and it lies telomeric to the BCR gene breakpoint region. There is an approximate 326 kb gap between the two green probes.

## RESULTS OF HYBRIDIZATION



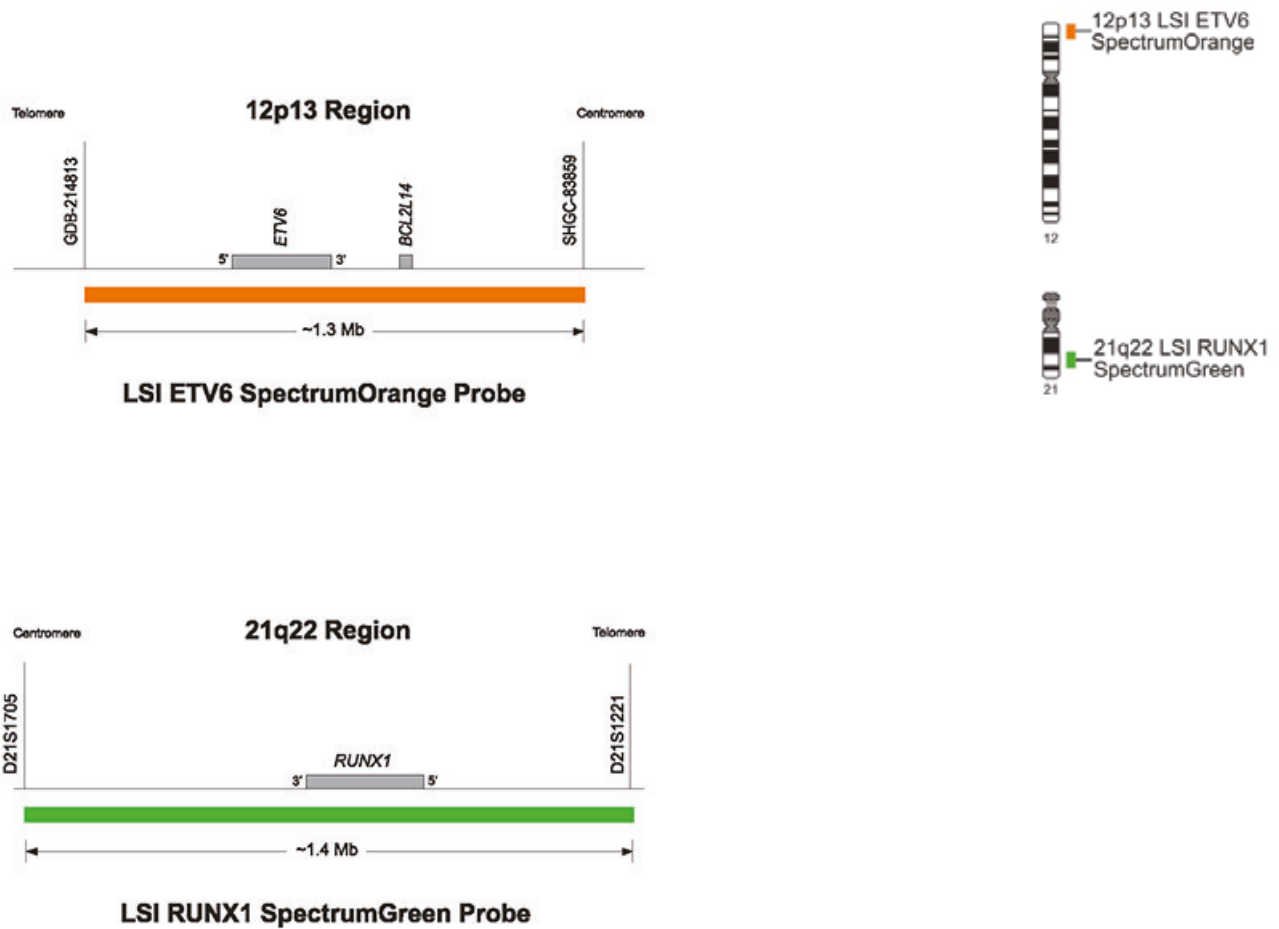
**Normal Hybridization:** Nucleus showing the two aqua/orange and two green signal pattern.



**Abnormal Hybridization:** Nucleus showing the one aqua/orange, one green, and one orange/green fusion (yellow) signal pattern.

Acute Lymphocytic Leukemia (ALL)

Vysis ETV6/RUNX1 DF FISH Probe Kit



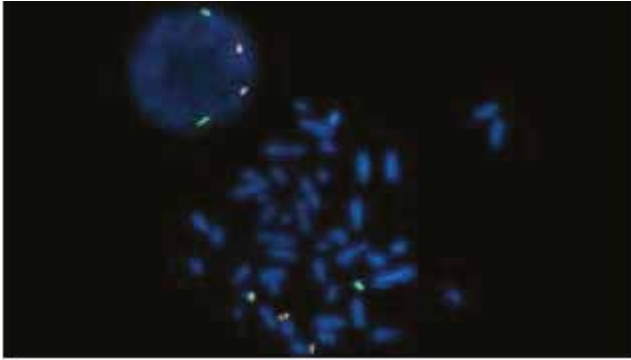
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ETV6/RUNX1 DF FISH Probe Kit (CE)	10 µL	05N96-010	00884999015487

PRODUCT DESCRIPTION

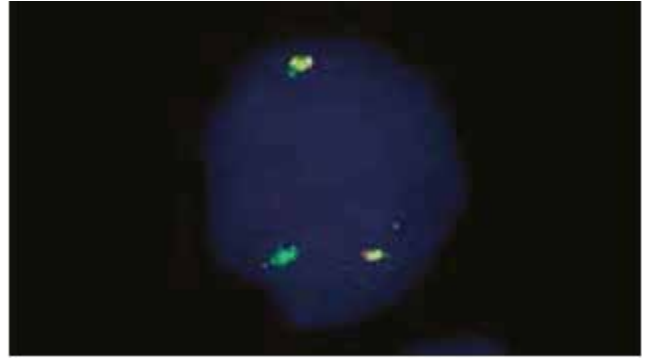
The Vysis ETV6/RUNX1 DF FISH Probe Kit is intended to detect the t(12;21) (p13;q22) translocation between the ETV6 gene and the RUNX1 gene using the fluorescence in situ hybridization (FISH) technique.

The approximately 1.3 Mb (chr12:11321286-12578034; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe spans the ETV6 breakpoint region. The approximately 1.4 Mb (chr21:34452353-35813329; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe spans the RUNX1 breakpoint region.

## RESULTS OF HYBRIDIZATION



**Normal Hybridization:** The above image show two lymphocyte cells, one in interphase (upper left) and one in metaphase cell (lower right), that have been hybridized with the LSI ETV6/RUNX1 Dual Color Dual Fusion Probe. Both cells show the two orange (RUNX1), two green (ETV6) signal pattern.



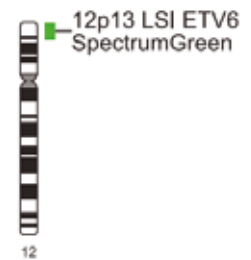
**Abnormal Hybridization:** The above image shows a bone marrow cell in interphase hybridized with the LSI ETV6/RUNX1 Dual Color Dual Fusion Probe. The cell in this image shows the one orange (RUNX1), one green (ETV6), two fusion (der (12) and der (21)) signal pattern.

Acute Lymphocytic Leukemia (ALL)

Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Translocation Probe Set



**LSI ETV6/TEL SpectrumGreen ES Probe**



**LSI RUNX1 SpectrumOrange ES Probe**

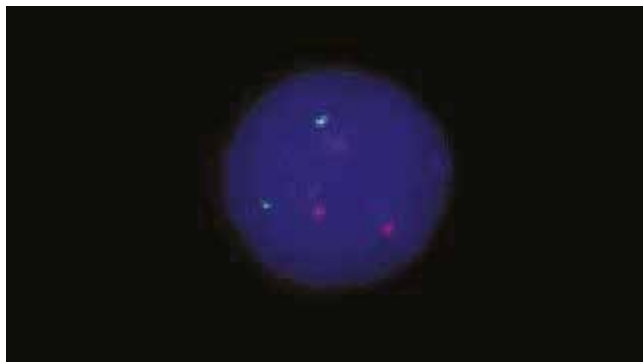
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Translocation Probe Set (CE)	20 µL	08L66-020	00884999031562

**PRODUCT DESCRIPTION**

This fluorescence in situ hybridization (FISH) probe is intended to detect the t(12;21)(p13;q22) that results in the ETV6/RUNX1 fusion. The LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Translocation Probe Set is a mixture of a SpectrumGreen ETV6 probe and a SpectrumOrange RUNX1 probe. The LSI ETV6 probe begins between exons 3 & 5 and extends toward the 12p telomere for approximately 347 kb. The LSI RUNX1 probe spans the entire RUNX1 gene and is approximately 732 kb.

## RESULTS OF HYBRIDIZATION

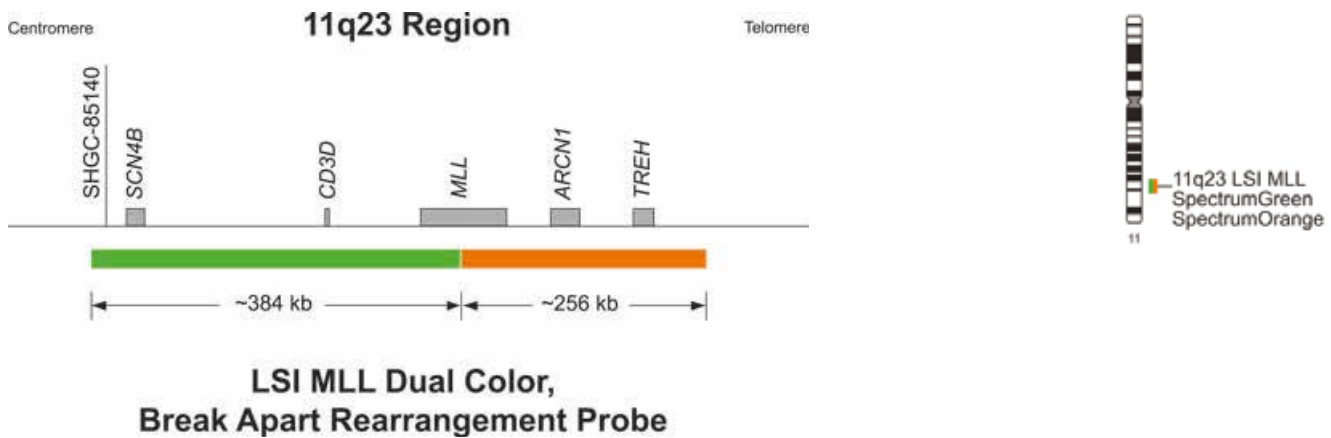
In a normal nucleus, the expected pattern for a cell hybridized with the LSI TEL/ AML1 ES Dual Color Translocation probe is the two orange (AML1), two green (TEL) (2O2G) signal pattern. In an abnormal cell containing the TEL/AML1 fusion, the expected signal pattern is one green (native TEL), one large orange (native AML1), one smaller orange signal (residual AML1) and one fused orange/ green (yellow) signal. The green native signal may be absent in some instances due to the deletion of the non-translocated TEL allele.



**Normal Hybridization:** LSI TEL/AML1 ES Dual Color Translocation Probe hybridized to a nucleus lacking the TEL/AML1 fusion gene showing the two orange and two green (2O2G) signal pattern.

Acute Lymphocytic Leukemia (ALL)

Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L57-020	00884999031470

PRODUCT DESCRIPTION

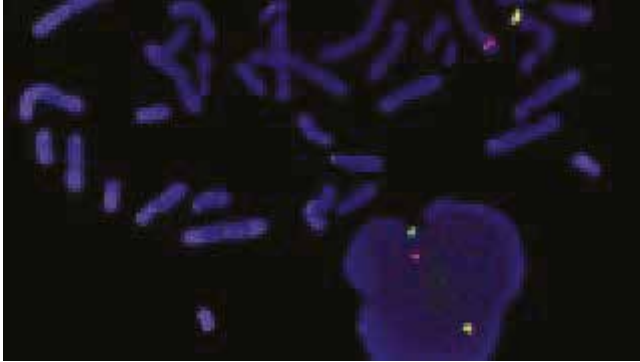
The LSI MLL Dual Color, Break Apart Rearrangement Probe is intended for the detection of translocations involving the MLL gene. The probe may be used with metaphase chromosomes or interphase nuclei.

Translocations disrupting the MLL (ALL-1,HRX) gene are among the most common cytogenetic abnormalities observed in hematopoietic malignancies. Although over 30 variant translocations have been seen involving MLL translocations, the most common abnormalities are t(4;11)(q21;q23), t(9;11) (p22;q23), and t(11;19)(q23;p13).

The LSI MLL Dual Color, Break Apart Rearrangement Probe consists of a 350 kb portion centromeric of the MLL gene breakpoint cluster region (bcr) labeled in SpectrumGreen and approximately 190 kb portion largely telomeric of the bcr labeled in SpectrumOrange. In approximately 25% of 11q23 translocations, a region beginning at the MLL breakpoint and extending distally is deleted. This probe can provide a better indication of the presence of the 11q23 translocation than a single color probe design.

## RESULTS OF HYBRIDIZATION

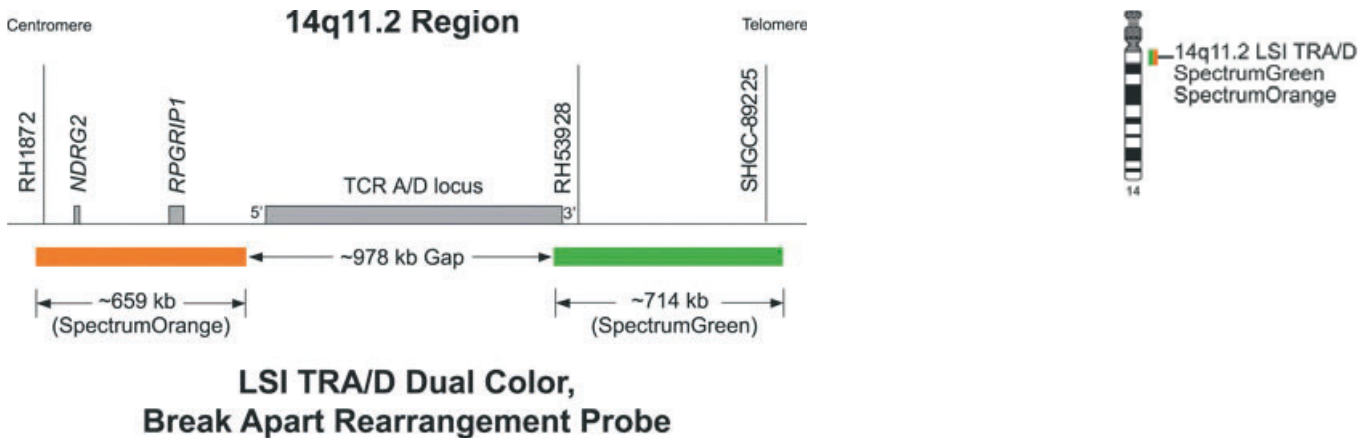
The signal pattern observed in a cell lacking the MLL rearrangement is expected to show a two orange/green (yellow) fusion signal pattern (2F). In a cell possessing a MLL translocation, the expected pattern is one green/orange (yellow) fusion signal, one orange signal, and one green (1O1G1F) signal. With the MLL Dual Color, Break Apart Rearrangement Probe, a large deletion occurring distally from the MLL breakpoint might weaken or totally eliminate one of the two orange signals, potentially producing a FISH pattern characteristic of concomitant translocation and deletion, i.e., one orange/green fusion and one isolated green signal.



**Abnormal Hybridization:** LSI MLL Dual Color, Break Apart Rearrangement Probe hybridized to cells possessing a t(9:11) (p22;q23) and exhibiting the expected one orange, one green and one orange/green fusion signal pattern (1O1G1F).

Acute Lymphocytic Leukemia (ALL)

Vysis TRA/D Dual Color, Break Apart Rearrangement FISH Probe Kit



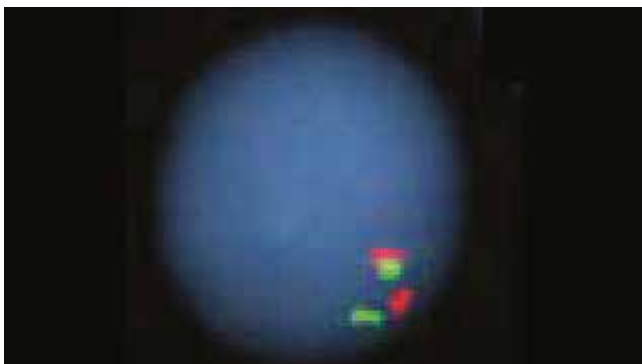
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TRA/D Dual Color Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N41-020	00884999014923

PRODUCT DESCRIPTION

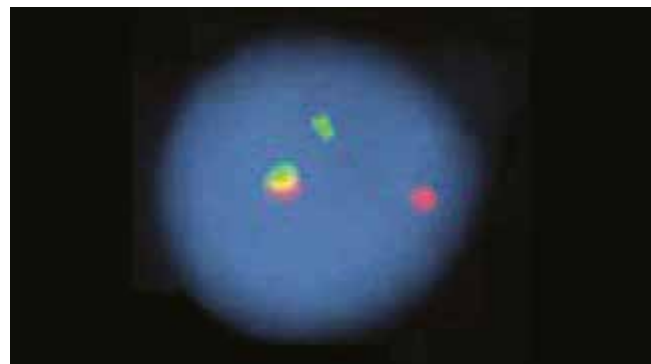
The Vysis TRA/D Break Apart FISH Probe Kit is intended to detect chromosomal rearrangements involving the T-cell receptor alpha/delta locus at chromosome 14q11.2 using the fluorescence in situ hybridization (FISH) technique.

The SpectrumOrange probe spans approximately 659 kb (chr14:20433430-21092293; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) centromeric of the T-cell receptor alpha/delta locus. The SpectrumGreen probe spans approximately 714 kb (chr14:22069931-22784042; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) telomeric of the T-cell receptor alpha/delta locus.

RESULTS OF HYBRIDIZATION



**Normal Hybridization:** Nucleus showing the two green/orange fusion signals.

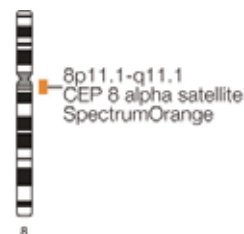


**Abnormal Hybridization:** Nucleus showing the one green/orange fusion, one green and one orange signal pattern.



Acute Lymphocytic Leukemia (ALL)

Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit <b>(CE)</b>	20 Assays	07J22-008	00884999027077
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) <b>(CE)</b>	20 Assays	07J20-008	00884999027008
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-001	00884999027039
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-002	00884999027046

**PRODUCT DESCRIPTION**

CEP 8 is a SpectrumOrange labeled probe specific for the alpha satellite (centromeric) region, 8p11.1-q11.1. The CEP 8 DNA Probe Kit which is available for in vitro diagnostic use and may be used as an adjunct to standard karyotyping to identify and enumerate chromosome 8 in cells obtained from bone marrow. In multi-site clinical trials, the CEP 8 DNA Probe Kit for interphase analysis was 96% sensitive and 98% specific as compared to traditional cytogenetic analysis. A close association has been made between trisomy 8 and both myeloid blast crisis and basophilia. Trisomy 8 is a prevalent genetic aberration in several specific diseases:

- Chronic Myelogenous Leukemia (CML)
- Acute Myeloid Leukemia (AML)
- Myeloproliferative disorders (MPD)
- Myelodysplastic Syndrome (MDS)
- Other hematologic disorders not specified (HDNOS)

**CEP 8 SpectrumOrange DNA Probe Kit Content**

Components of the CEP 8 SpectrumOrange DNA Probe Kit include:

- CEP 8 SpectrumOrange alpha satellite DNA for centromere region 8p11.1-q11.1 predenatured in hybridization buffer (220 µL)
- NP-40 (detergent for wash solution: 1000 µL)
- DAPI II counterstain (300 µL)
- 20X SSC (66 g)

**Intended Use**

The CEP 8 SpectrumOrange DNA Probe Kit is intended to detect AT rich alpha satellite sequences in the centromere region of chromosome 8 in conjunction with routine diagnostic cytogenetic testing. It is indicated for use as an adjunct to standard cytogenetic analysis for identifying and enumerating chromosome 8 via fluorescence in situ hybridization (FISH) in interphase nuclei and in metaphase spreads of cells obtained from bone marrow in patients with myeloid disorders [Chronic myelogenous leukemia (CML), Acute myeloid leukemia (AML), Myeloproliferative disorder (MPD), Myelodysplastic syndrome (MDS), and Hematological disorders not otherwise specified (HDNOS)]. It is not intended to be used as a stand alone assay for test reporting. It is not intended for use in long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.

**Limitations**

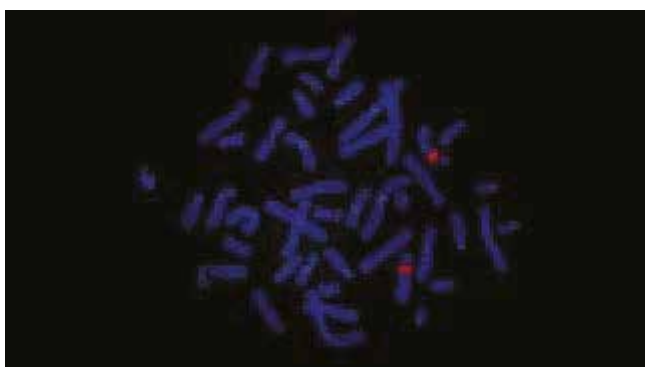
- The CEP 8 SpectrumOrange DNA Probe Kit has been characterized only for identifying chromosomes in nuclear preparations or metaphase spreads from bone marrow specimens.
- The clinical interpretation of any test results should be done in conjunction with standard cytogenetic analysis and should be evaluated within the context of the patient's medical history and other diagnostic laboratory test results.
- Clinical specimens with >2.2% tri-signal nuclei are considered to have an abnormal trisomy 8 clone. Those with ≤ 2.2% tri-signal nuclei should be considered normal, although the presence of trisomy 8 is not completely excluded.
- The CEP 8 SpectrumOrange DNA Probe Kit is not intended for long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.
- FISH assay results may not be informative if the specimen quality and/or specimen slide preparation is inadequate.
- If significant peripheral blood contamination is present in the bone marrow specimen, the blood may dilute the specimen; it is important to recognize the potential effects this dilution effect may have on the FISH assay results.
- It is possible that patients may have chromosome polymorphism which may hybridize with CEP 8 probe. FISH metaphase analysis should be done in addition to FISH interphase analysis. Polymorphism was not investigated in the clinical trials.
- This assay will not detect the presence of other chromosome abnormalities frequently associated with hematological disorders.
- The efficacy of this assay for monitoring of trisomy 8 or disease progression has not been demonstrated.

To learn more about Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit please visit:

<https://www.molecular.abbott/int/en/products/vysis-cep-8-dna-probe-kit>

**RESULTS OF HYBRIDIZATION**

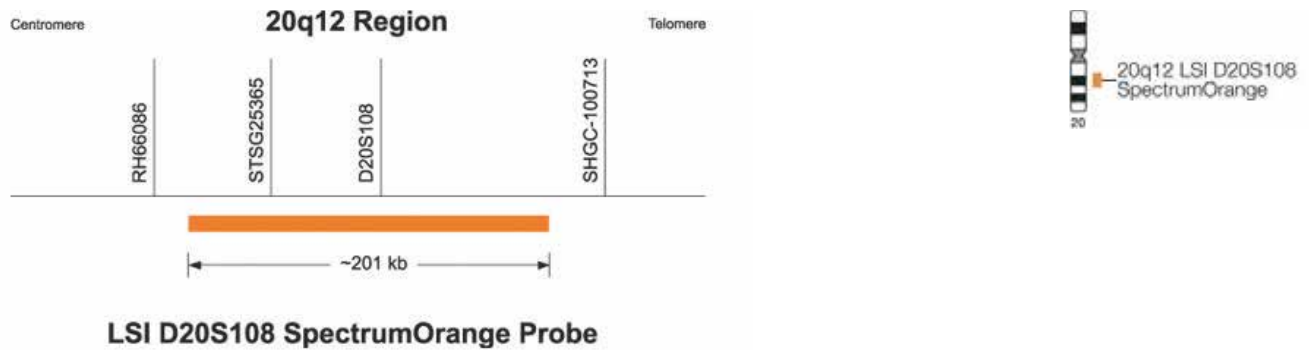
In a normal cell, the expected pattern for a nucleus hybridized with the CEP 8 probe is a two orange (2O) signal pattern. In an abnormal cell containing trisomy 8, the expected pattern will be a three orange (3O) signal pattern.



**Normal Hybridization:** CEP 8 SpectrumOrange hybridized to a normal cell showing two orange signals indicating two copies of chromosome 8.

Acute Myelogenous Leukemia (AML)

Vysis D20S108 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329

**PRODUCT DESCRIPTION**

The Vysis LSI D20S108 fluorescence in situ hybridization (FISH) probe is intended to detect deletions of Vysis LSI D20S108 probe target locus on 20q12. Acquired deletions of the long arm of chromosome 20 are found in ~4% of patients with a myelodysplastic syndrome (MDS) and in 1 to 2% of patients with acute myeloid leukemia (AML) and myeloproliferative disorders (MPD). Cytogenetic analysis of del(20q) revealed that the deletion is variable in size, with a commonly deleted region (CDR) spanning 20q11.2 to q12. Within the commonly deleted segment lies the SRC oncogene and possibly other tumor suppressor genes. The CDR is defined as a 2.7 Mb segment in MPD and a 2.6 Mb segment in AML/MDS, with an overlapping region of 1.7 Mb. In a study of 36 MPD, MDS, and AML patients with del(20q), statistical analyses showed that patients with del(20q) as a sole cytogenetic aberration (favorable subgroup) live longer than patients with del(20q) and other chromosomal changes (poor prognosis subgroup). Among patients from MDS, MPD and MDS/MPD groups, Douet-Guilbert et al identified one commonly deleted region in all 38 investigated samples using FISH, including the Vysis LSI D20S108 FISH Probe. The Vysis LSI D20S108 Probe is an approximately 201 kb SpectrumOrange labeled probe and contains the D20S108 locus located on chromosome 20q12.

**RESULTS OF HYBRIDIZATION**

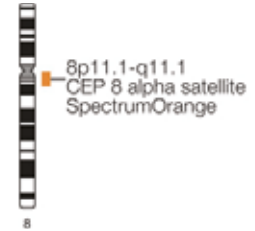
In a normal cell hybridized with the LSI D20S108 probe, the expected pattern is the two orange (2O) signal pattern. In an abnormal cell containing the deletion, the one orange (1O) signal pattern will be observed.



**Normal Hybridization:** LSI D20S108 Single Color Probe hybridized to normal cells showing the two orange (2O) signal pattern.

Acute Myelogenous Leukemia (AML)

Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit <b>(CE)</b>	20 Assays	07J22-008	00884999027077
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) <b>(CE)</b>	20 Assays	07J20-008	00884999027008
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-001	00884999027039
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-002	00884999027046

PRODUCT DESCRIPTION

CEP 8 is a SpectrumOrange labeled probe specific for the alpha satellite (centromeric) region, 8p11.1-q11.1.

The CEP 8 DNA Probe Kit which is available for in vitro diagnostic use and may be used as an adjunct to standard karyotyping to identify and enumerate chromosome 8 in cells obtained from bone marrow. In multi-site clinical trials, the CEP 8 DNA Probe Kit for interphase analysis was 96% sensitive and 98% specific as compared to traditional cytogenetic analysis. A close association has been made between trisomy 8 and both myeloid blast crisis and basophilia. Trisomy 8 is a prevalent genetic aberration in several specific diseases:

- Chronic Myelogenous Leukemia (CML)
- Acute Myeloid Leukemia (AML)
- Myeloproliferative disorders (MPD)
- Myelodysplastic Syndrome (MDS)
- Other hematologic disorders not specified (HDNOS)

**CEP 8 SpectrumOrange DNA Probe Kit Content**

Components of the CEP 8 SpectrumOrange DNA Probe Kit include:

- CEP 8 SpectrumOrange alpha satellite DNA for centromere region 8p11.1-q11.1 predenatured in hybridization buffer (220 µL)
- NP-40 (detergent for wash solution: 1000 µL)
- DAPI II counterstain (300 µL)
- 20X SSC (66 g)

**Intended Use**

The CEP 8 SpectrumOrange DNA Probe Kit is intended to detect AT rich alpha satellite sequences in the centromere region of chromosome 8 in conjunction with routine diagnostic cytogenetic testing. It is indicated for use as an adjunct to standard cytogenetic analysis for identifying and enumerating chromosome 8 via fluorescence in situ hybridization (FISH) in interphase nuclei and in metaphase spreads of cells obtained from bone marrow in patients with myeloid disorders [Chronic myelogenous leukemia (CML), Acute myeloid leukemia (AML), Myeloproliferative disorder (MPD), Myelodysplastic syndrome (MDS), and Hematological disorders not otherwise specified (HDNOS)]. It is not intended to be used as a stand alone assay for test reporting. It is not intended for use in long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.

**Limitations**

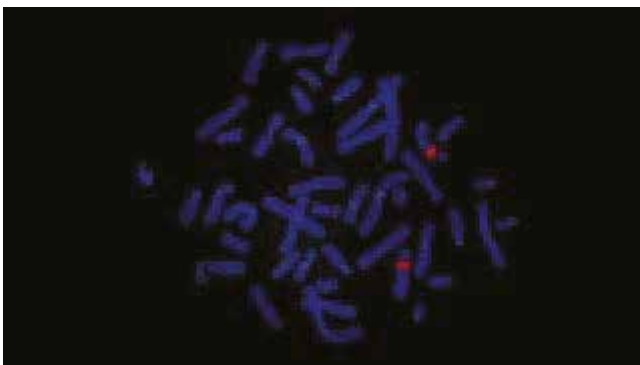
- The CEP 8 SpectrumOrange DNA Probe Kit has been characterized only for identifying chromosomes in nuclear preparations or metaphase spreads from bone marrow specimens.
- The clinical interpretation of any test results should be done in conjunction with standard cytogenetic analysis and should be evaluated within the context of the patient's medical history and other diagnostic laboratory test results.
- Clinical specimens with >2.2% tri-sigaled nuclei are considered to have an abnormal trisomy 8 clone. Those with  $\leq 2.2\%$  tri-sigaled nuclei should be considered normal, although the presence of trisomy 8 is not completely excluded.
- The CEP 8 SpectrumOrange DNA Probe Kit is not intended for long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.
- FISH assay results may not be informative if the specimen quality and/or specimen slide preparation is inadequate.
- If significant peripheral blood contamination is present in the bone marrow specimen, the blood may dilute the specimen; it is important to recognize the potential effects this dilution effect may have on the FISH assay results.
- It is possible that patients may have chromosome polymorphism which may hybridize with CEP 8 probe. FISH metaphase analysis should be done in addition to FISH interphase analysis. Polymorphism was not investigated in the clinical trials.
- This assay will not detect the presence of other chromosome abnormalities frequently associated with hematological disorders.
- The efficacy of this assay for monitoring of trisomy 8 or disease progression has not been demonstrated.

To learn more about Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit please visit:

<https://www.molecular.abbott/int/en/products/vysis-cep-8-dna-probe-kit>

**RESULTS OF HYBRIDIZATION**

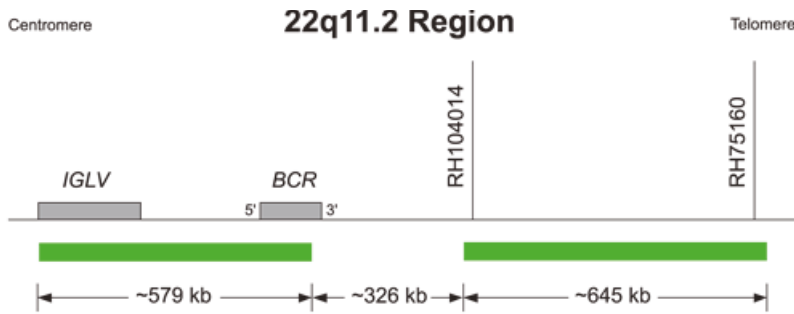
In a normal cell, the expected pattern for a nucleus hybridized with the CEP 8 probe is a two orange (2O) signal pattern. In an abnormal cell containing trisomy 8, the expected pattern will be a three orange (3O) signal pattern.



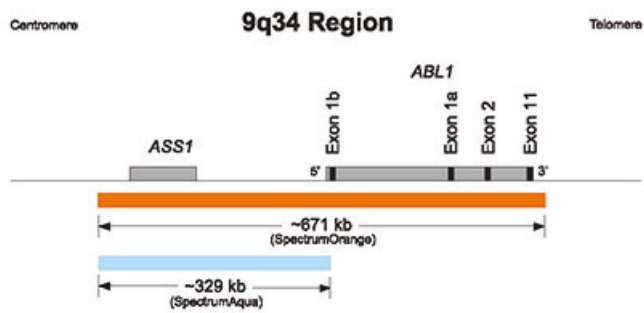
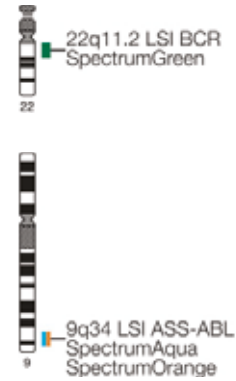
**Normal Hybridization:** CEP 8 SpectrumOrange hybridized to a normal cell showing two orange signals indicating two copies of chromosome 8.

Acute Myelogenous Leukemia (AML)

Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe



**LSI BCR SpectrumGreen Dual Fusion Probe**



**LSI ASS1-ABL1 Dual Fusion Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036

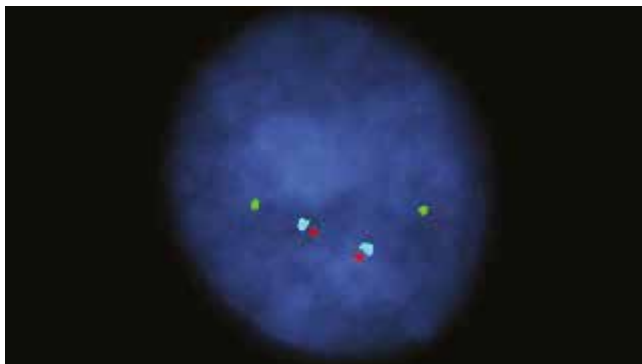
## PRODUCT DESCRIPTION

The Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe Kit is intended to detect the t(9;22)(q34;q11.2) reciprocal translocation involving the BCR and ABL1 gene regions using the fluorescence in situ hybridization (FISH) technique.

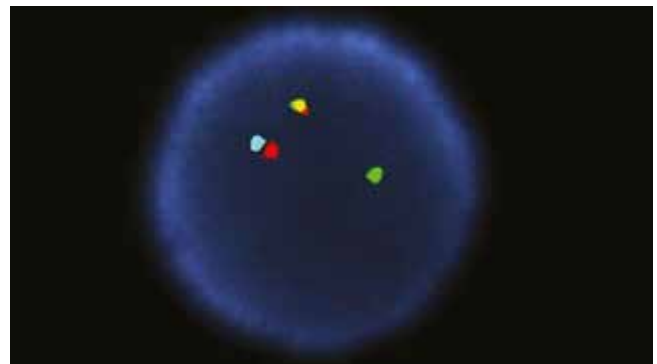
The t(9;22) translocation which fuses the BCR gene on chromosome 22q11.2 and the ABL1 gene on chromosome 9q34 is observed by cytogenetics in greater than 80% of patients with chronic myelogenous leukemia (CML). In CML cases lacking a cytogenetically detectable translocation, the BCR/ABL1 fusion can still almost always be detected by FISH or other molecular techniques. BCR/ABL1 fusions also occur in a portion of acute lymphocytic leukemia cases and more rarely in acute myeloid leukemia. In about 15 to 20 percent of CML cases, the t(9;22) results in the loss of genetic material flanking the BCR and/or ABL1 breakpoints on the derivative 9 chromosome. This loss can prevent the production of the highly specific two-fusion signal patterns expected of dual fusion probes and balanced translocations. If both BCR and ABL1 targets are deleted on the der(9) chromosome, low-level random overlap of orange and green signals within normal cells (producing a 1 orange, 1 green, 1 fusion pattern) cannot be discriminated from low-level true BCR/ABL1 fusions producing the same pattern. The Tri-Color design of this test uses a probe in a third color (aqua) on the centromeric side of the ABL1 breakpoint, which co-localizes with the orange signal in a random orange/green signal fusion, but is absent from a true BCR/ABL1 molecular fusion on the der(22) chromosome. The probes in this kit have been used in published papers to detect low levels of positive cells in CML patients who were undergoing therapy and had deletions of FISH signals on the derivative chromosome 9.

The approximately 671 kb (chr9:132255025-132926107; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI ABL1 probe spans the ABL1 and ASS1 genes on chromosome 9q34. The approximately 329 kb (chr9:132255025-132584487; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumAqua LSI ASS1 probe overlaps with part of the area covered by the SpectrumOrange probe, spans the ASS1 gene and lies centromeric to the ABL1 gene breakpoint regions. The SpectrumGreen LSI BCR probe consists of two probes located at chromosome 22q11.2. The centromeric segment of the SpectrumGreen probe is approximately 579 kb (chr22:21382633-21962088; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), and contains the majority of the BCR gene. The telomeric segment of the SpectrumGreen probe is approximately 645 kb (chr22:22288218-22932815; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), and it lies telomeric to the BCR gene breakpoint region. There is an approximate 326 kb gap between the two green probes.

## RESULTS OF HYBRIDIZATION



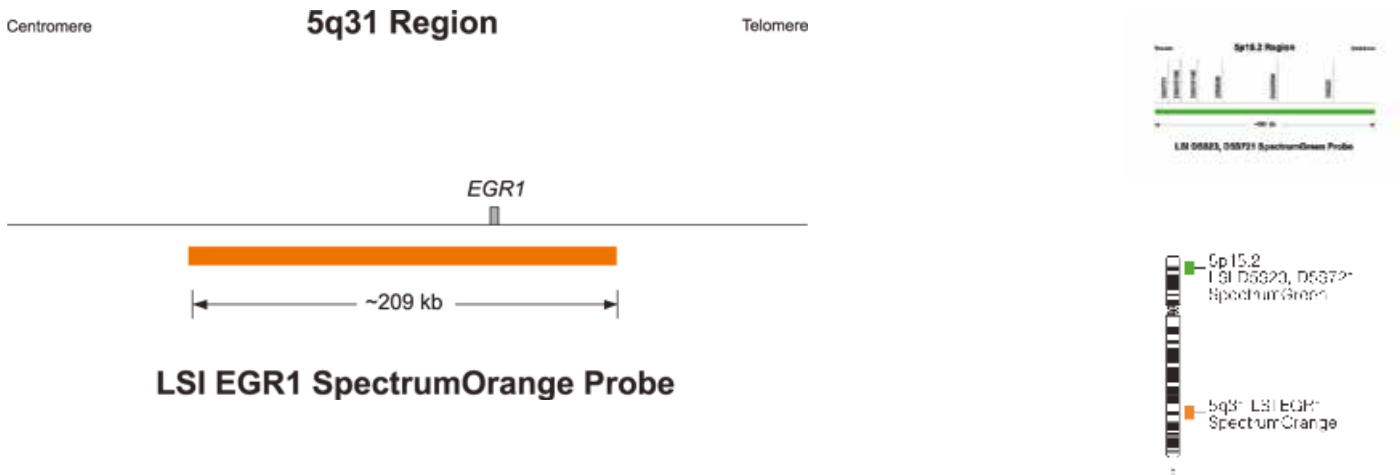
**Normal Hybridization:** Nucleus showing the two aqua/orange and two green signal pattern.



**Abnormal Hybridization:** Nucleus showing the one aqua/orange, one green, and one orange/green fusion (yellow) signal pattern.

Acute Myelogenous Leukemia (AML)

Vysis EGR1 FISH Probe Kit - SC (Specimen Characterization)

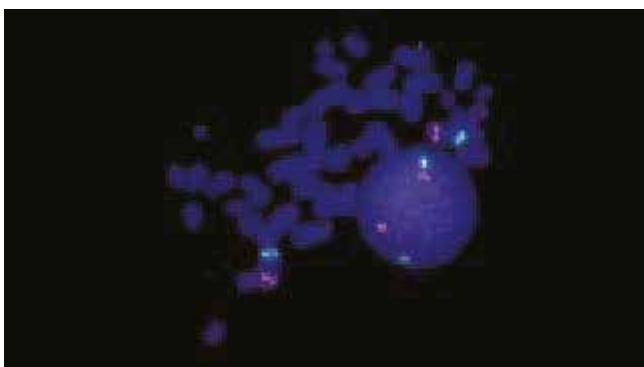


PRODUCT	QUANTITY	ORDER #	GTIN
Vysis EGR1 FISH Probe Kit - SC (Specimen Characterization) (CE)	20 µL	04N37-001	00884999038165

PRODUCT DESCRIPTION

The Vysis EGR1 FISH Probe Kit – SC (Specimen Characterization) detects the LSI EGR1 probe target on chromosome 5q in bone marrow specimens. The Vysis EGR1 FISH Probe Kit – SC assay results characterize bone marrow specimens from patients with acute myeloid leukemia or myelodysplastic syndrome. To learn more about Vysis EGR1 FISH Probe Kit please visit: <https://www.molecular.abbott/int/en/products/oncology/vysis-egr1-fish-probe-kit-specimen-characterization>

RESULTS OF HYBRIDIZATION

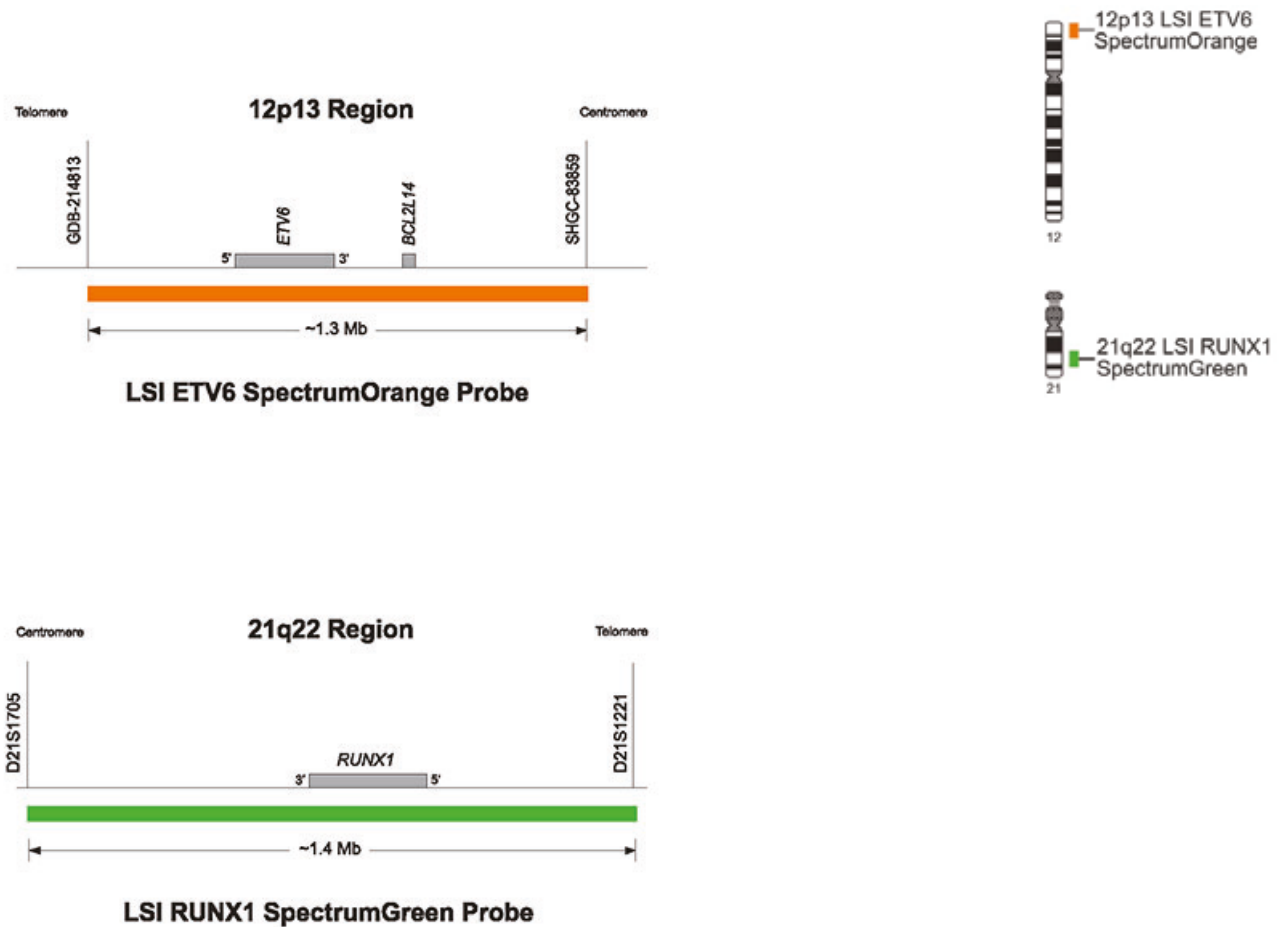


**Normal Hybridization:** Vysis LSI EGR1 SpectrumOrange/D5S23, D5S721 SpectrumGreen Probes hybridized to cells showing the two orange, two green (2R2G) signal pattern.



Acute Myelogenous Leukemia (AML)

Vysis ETV6/RUNX1 DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ETV6/RUNX1 DF FISH Probe Kit (CE)	10 µL	05N96-010	00884999015487

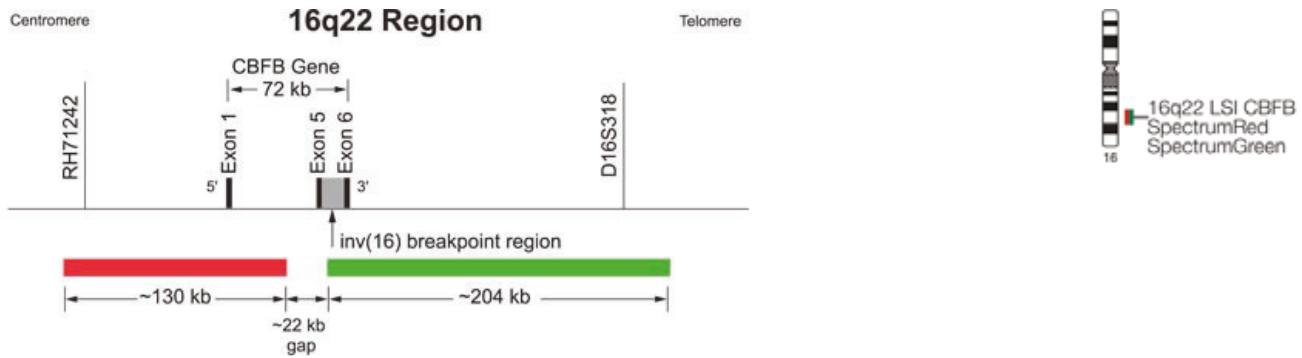
PRODUCT DESCRIPTION

The Vysis ETV6/RUNX1 DF FISH Probe Kit is intended to detect the t(12;21) (p13;q22) translocation between the ETV6 gene and the RUNX1 gene using the fluorescence in situ hybridization (FISH) technique.

The approximately 1.3 Mb (chr12:11321286-12578034; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe spans the ETV6 breakpoint region. The approximately 1.4 Mb (chr21:34452353-35813329; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe spans the RUNX1 breakpoint region.

Acute Myelogenous Leukemia (AML)

Vysis LSI CFBF Break Apart FISH Probe Kit



LSI CFBF Dual Color, Break Apart Rearrangement Probe

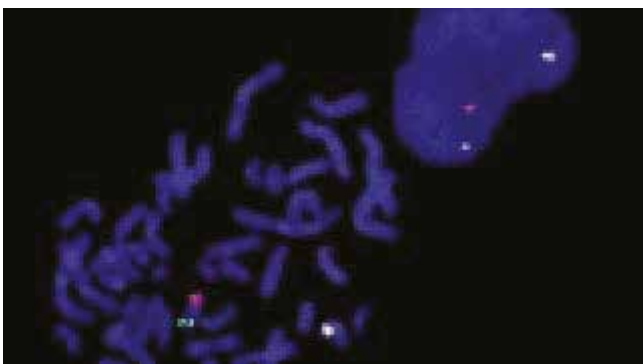
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CFBF Break Apart FISH Probe Kit (CE)	20 µL	05N44-020	00884999014930

PRODUCT DESCRIPTION

The Vysis LSI CFBF Dual Color Break Apart Rearrangement fluorescence in situ hybridization (FISH) probe is intended to detect chromosomal rearrangements at the CFBF locus on chromosome 16q22. The SpectrumRed probe is approximately 130 kb (chr16:65525674-65655811; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and hybridizes centromeric to the inv(16) and t(16;16) breakpoint region. The SpectrumGreen probe is approximately 204 kb (chr 16:65677619- 65881775; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and hybridizes telomeric to the breakpoint.

RESULTS OF HYBRIDIZATION

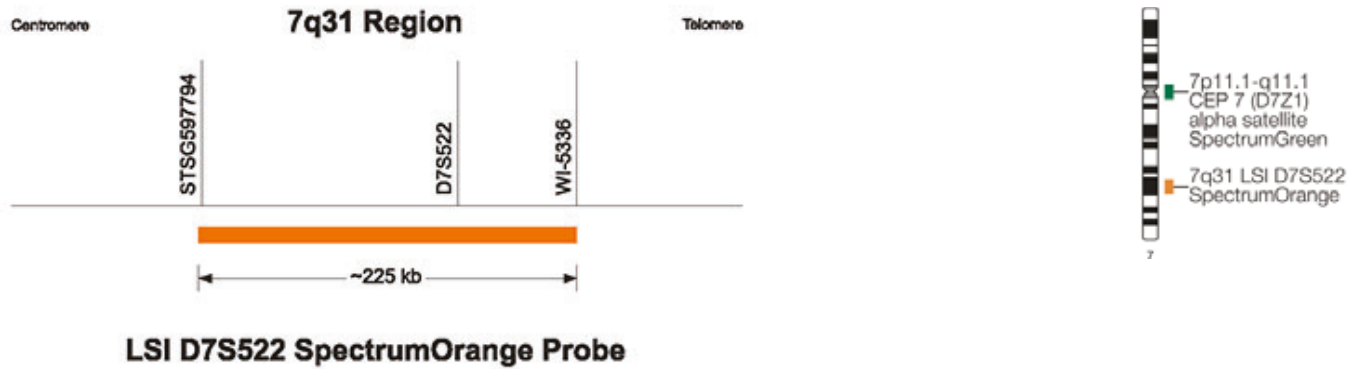
The expected pattern in a nucleus lacking inv(16) will be two fused red/green (yellow) signals (2F). The pattern in a nucleus containing an inv(16) results in separate red and green signals appearing on opposite arms of the inverted 16 chromosome. The pattern of t(16;16)(p13;q22) results in an adjacent or fused red/ green signal on the q arm of one of the 16 chromosomes and a green signal on the other arm of 16, while the 16 chromosome homolog will only contain the red signal on one arm.



**Normal Hybridization:** LSI CFBF Dual Color, Break Apart Rearrangement Probe hybridized to a cell exhibiting one red and one green signal. On the metaphase cell, contains the red signal on one arm and the green signal on the other arm.

Acute Myelogenous Leukemia (AML)

Vysis LSI D7S522 / CEP 7 FISH Probe Kit



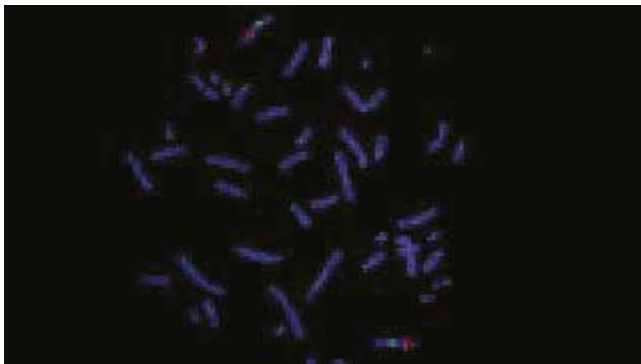
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D7S522/CEP 7 FISH Probe Kit <b>(CE)</b>	20 µL	05N08-020	00884999014374

**PRODUCT DESCRIPTION**

The Vysis D7S522/CEP7 FISH Probe Kit is intended to detect the copy number of the LSI D7S522 and CEP 7 probe targets located at chromosome 7q31 and 7p11.1-q11.1, respectively. The Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes are a mixture of a SpectrumOrange D7S522 probe (7q31) and a SpectrumGreen CEP 7 probe (7p11.1-q11.1). The LSI D7S522 probe target is approximately 224 Kb in length. The CEP 7 probe targets the D7Z1 alpha satellite sequence at the centromere of chromosome 7.

**RESULTS OF HYBRIDIZATION**

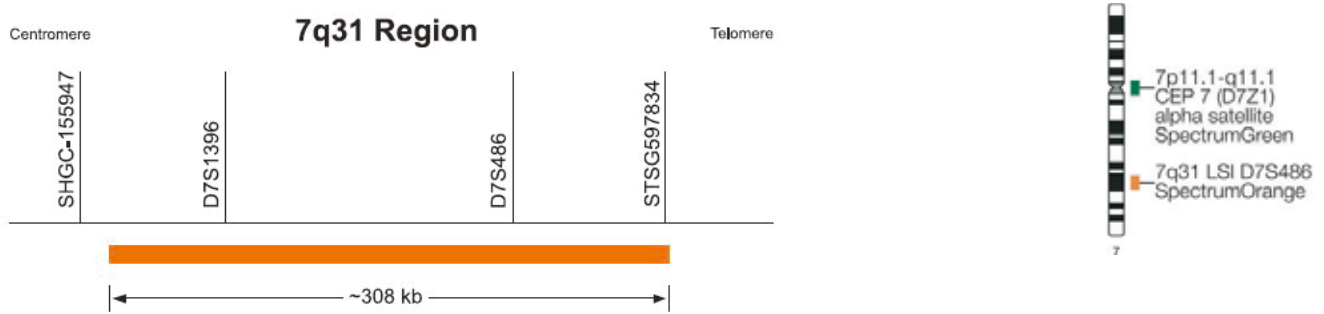
In a normal cell hybridized with the LSI D7S522/CEP 7 Probe, the expected pattern is the two orange, two green signal pattern. In an abnormal cell containing the deletion, the one orange, two green signal pattern will be observed.



**Normal Hybridization:** LSI D7S522/CEP 7 Dual Color Probe hybridized to a normal metaphase cell showing the two orange, two green signal pattern.

Acute Myelogenous Leukemia (AML)

Vysis LSI D7S486 / CEP 7 FISH Probe Kit



**LSI D7S486 SpectrumOrange Probe**

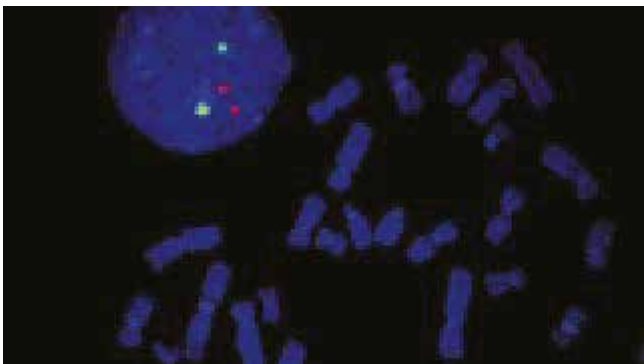
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D7S486/CEP 7 FISH Probe Kit (CE)	20 µL	05N07-020	00884999014367

**PRODUCT DESCRIPTION**

The Vysis LSI D7S486/CEP7 FISH Probe Kit is intended to detect the copy number of the LSI D7S486 and CEP 7 probe targets located at chromosome 7q31 and 7p11.1-q11.1, respectively.

The Vysis LSI D7S486 SpectrumOrange/CEP 7 SpectrumGreen Probes are a mixture of a SpectrumOrange D7S486 probe (7q31) and a SpectrumGreen CEP 7 probe (7p11.1-q11.1). The LSI D7S486 probe target is approximately 308 kb in length (chr7:115462602-115770704; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The CEP 7 probe targets the D7Z1 alpha satellite sequence at the centromere of chromosome 7. To learn more about Vysis LSI D7S486/CEP 7 FISH Probe Kit please visit: <https://www.molecular.abbott/int/en/products/oncology/vysis-d7s486-cep-7-fish-probe-kit>

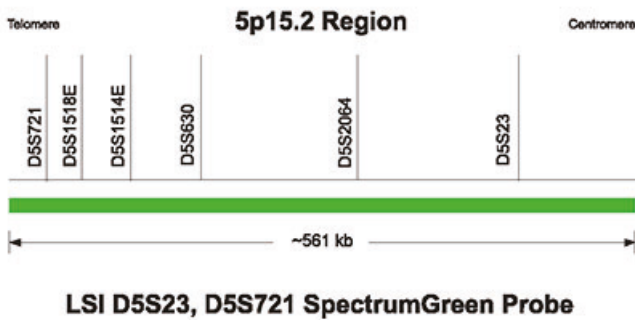
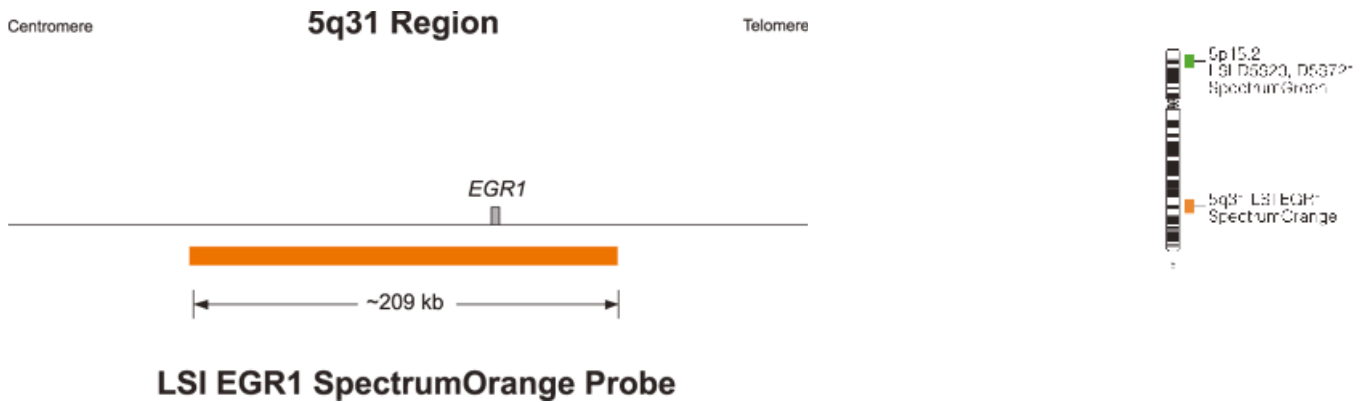
**RESULTS OF HYBRIDIZATION**



**Normal Hybridization:** LSI D7S486/CEP 7 Dual Color Probe hybridized to a nucleus showing the two orange, two green (2O2G) signal pattern.

Acute Myelogenous Leukemia (AML)

Vysis LSI EGR1/D5S23, D5S721 Dual Color Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI EGR1/D5S23, D5S721 Dual Color Probe Kit (CE)	20 µL	08L68-020	00884999031586

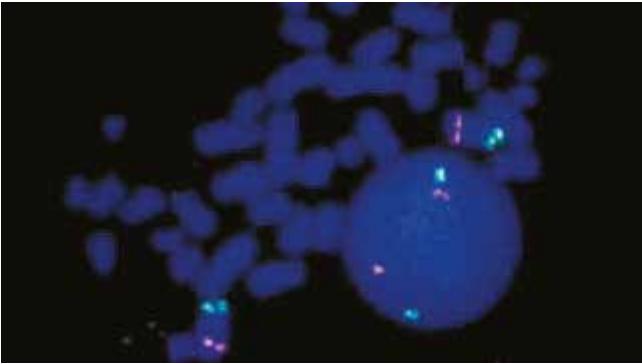
**PRODUCT DESCRIPTION**

This fluorescence in situ hybridization (FISH) probe set is intended to detect the deletion of the Locus Specific Identifier (LSI) EGR1 probe target on chromosome band 5q31.

The LSI EGR1/D5S23, D5S721 Dual Color Probe Set is a mixture of a SpectrumOrange EGR1 probe (5q31) and a SpectrumGreen D5S23, D5S721 probe (5p15). The LSI EGR1 probe target is approximately 209 kb in length. The LSI D5S23, D5S721 target spans about 561 kb.

## RESULTS OF HYBRIDIZATION

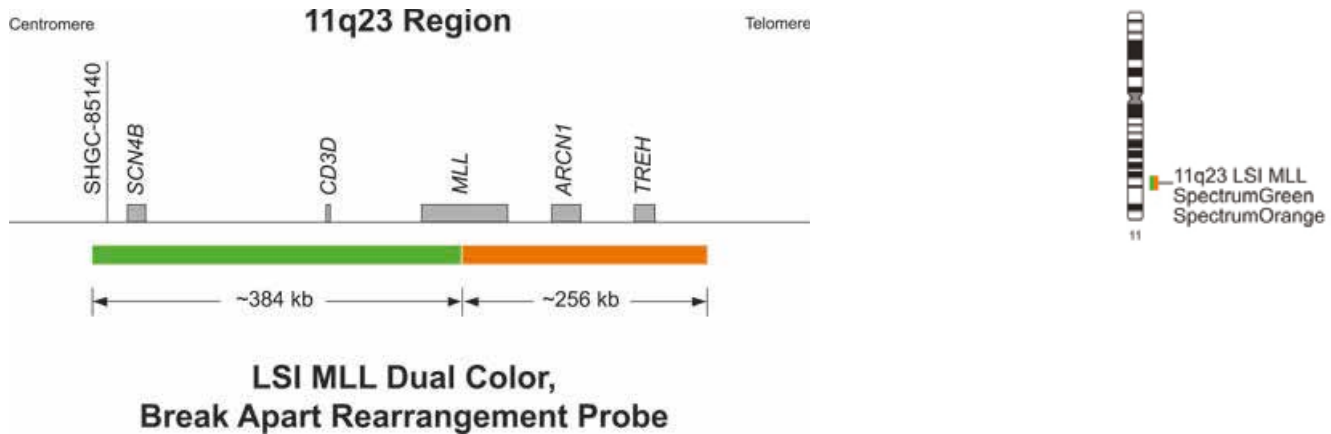
In a normal cell, the expected pattern for a nucleus hybridized with the LSI EGR1/D5S23, D5S721 probe is the two orange, two green (2O2G) signal pattern. In a hybridized abnormal cell containing the deletion, the one orange, two green (1O2G) signal pattern will be observed.



**Normal Hybridization:** Normal hybridization: LSI EGR1/D5S721, D5S23 Dual Color Probe hybridized to normal cells showing the two orange, two green (2O2G) signal pattern.

Acute Myelogenous Leukemia (AML)

Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L57-020	00884999031470

**PRODUCT DESCRIPTION**

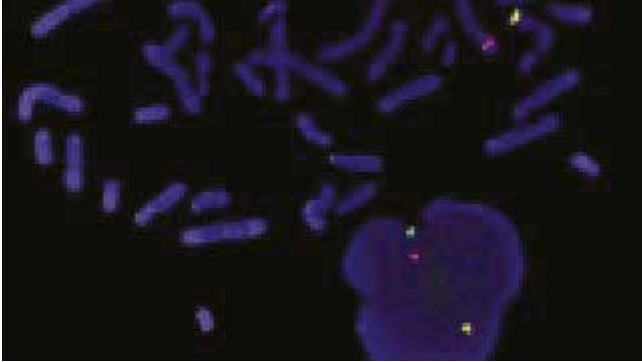
The LSI MLL Dual Color, Break Apart Rearrangement Probe is intended for the detection of translocations involving the MLL gene. The probe may be used with metaphase chromosomes or interphase nuclei.

Translocations disrupting the MLL (ALL-1,HRX) gene are among the most common cytogenetic abnormalities observed in hematopoietic malignancies. Although over 30 variant translocations have been seen involving MLL translocations, the most common abnormalities are t(4;11)(q21;q23), t(9;11) (p22;q23), and t(11;19)(q23;p13).

The LSI MLL Dual Color, Break Apart Rearrangement Probe consists of a 350 kb portion centromeric of the MLL gene breakpoint cluster region (bcr) labeled in SpectrumGreen and approximately 190 kb portion largely telomeric of the bcr labeled in SpectrumOrange. In approximately 25% of 11q23 translocations, a region beginning at the MLL breakpoint and extending distally is deleted. This probe can provide a better indication of the presence of the 11q23 translocation than a single color probe design.

## RESULTS OF HYBRIDIZATION

The signal pattern observed in a cell lacking the MLL rearrangement is expected to show a two orange/green (yellow) fusion signal pattern (2F). In a cell possessing a MLL translocation, the expected pattern is one green/orange (yellow) fusion signal, one orange signal, and one green (1O1G1F) signal. With the MLL Dual Color, Break Apart Rearrangement Probe, a large deletion occurring distally from the MLL breakpoint might weaken or totally eliminate one of the two orange signals, potentially producing a FISH pattern characteristic of concomitant translocation and deletion, i.e., one orange/green fusion and one isolated green signal.

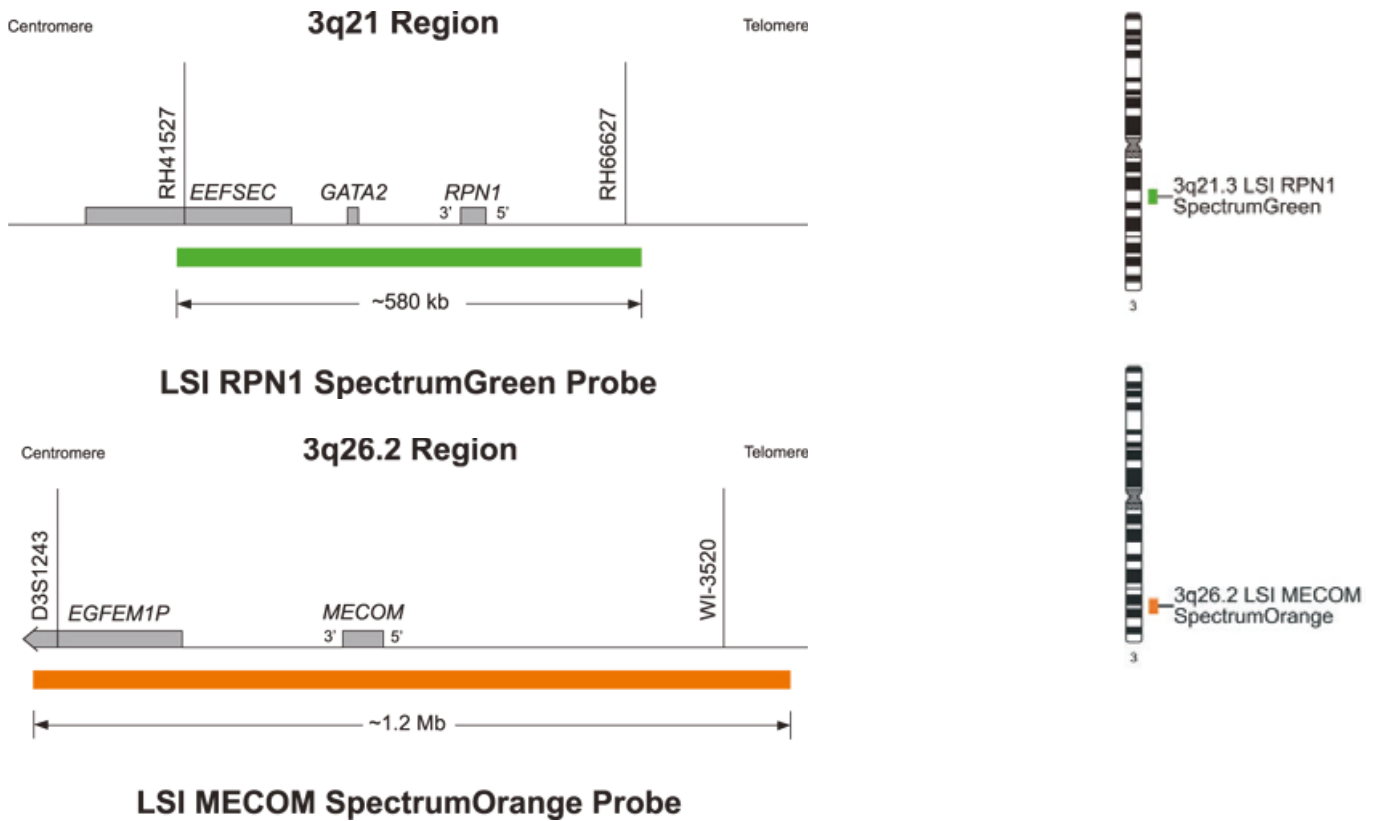


**Abnormal Hybridization:** LSI MLL Dual Color, Break Apart Rearrangement Probe hybridized to cells possessing a t(9:11) (p22;q23) and exhibiting the expected one orange, one green and one orange/green fusion signal pattern (1O1G1F).



Acute Myelogenous Leukemia (AML)

Vysis LSI RPN1/MECOM DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RPN1/MECOM DF FISH Probe Kit (CE)	10 µL	06N60-010	00884999034914

PRODUCT DESCRIPTION

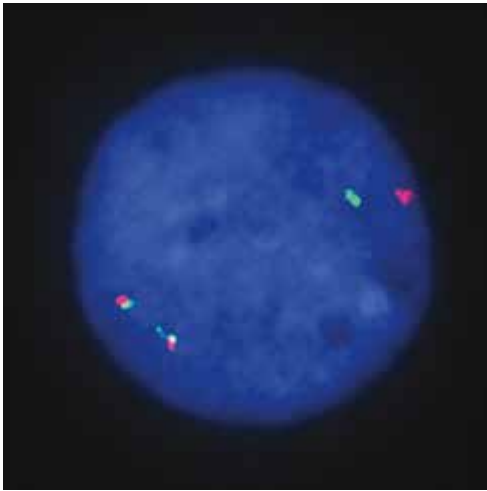
The Vysis RPN1/MECOM DF FISH Probe Kit is intended to detect a fusion between the ribophorin I gene (RPN1) and the MDS1 and EVI1 complex locus gene (MECOM) using the fluorescence in situ hybridization (FISH) technique.

The approximately 580 kb (chr3:129466532-130046908, March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen LSI RPN1 probe spans the RPN1 gene area on chromosome 3q21.3. The approximately 1.2 Mb (chr3:169797344-170950559; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI MECOM probe encompasses the entire MECOM (MDS1 and EVI1 complex) locus on chromosome 3q26.2.

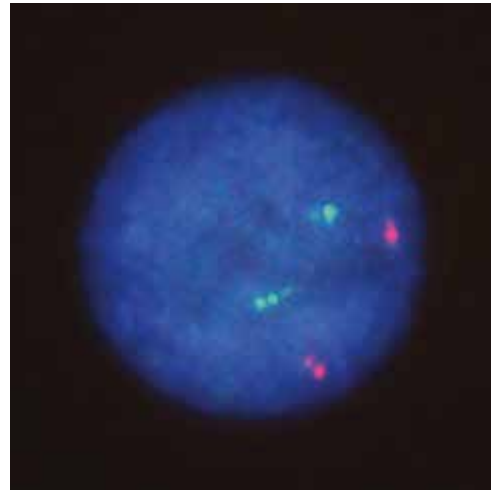
## RESULTS OF HYBRIDIZATION

The most frequently expected signal pattern of the Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes in abnormal specimens is 1 orange, 1 green, and 2 orange/green fusion signals. Other signal patterns may occur in abnormal specimens, and metaphase analysis may be helpful in characterization of such patterns.

The most commonly expected signal pattern of the Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes in normal specimens is 2 orange and 2 green signals. Due to the proximity of the 2 probes on the q arm of chromosome 3, however, the orange and green signals may sometimes appear as a fusion in a normal nucleus. This effect can produce a pattern of 1 orange, 1 green, and 1 orange/green fusion signal or, more rarely, 2 orange/green fusion signals.



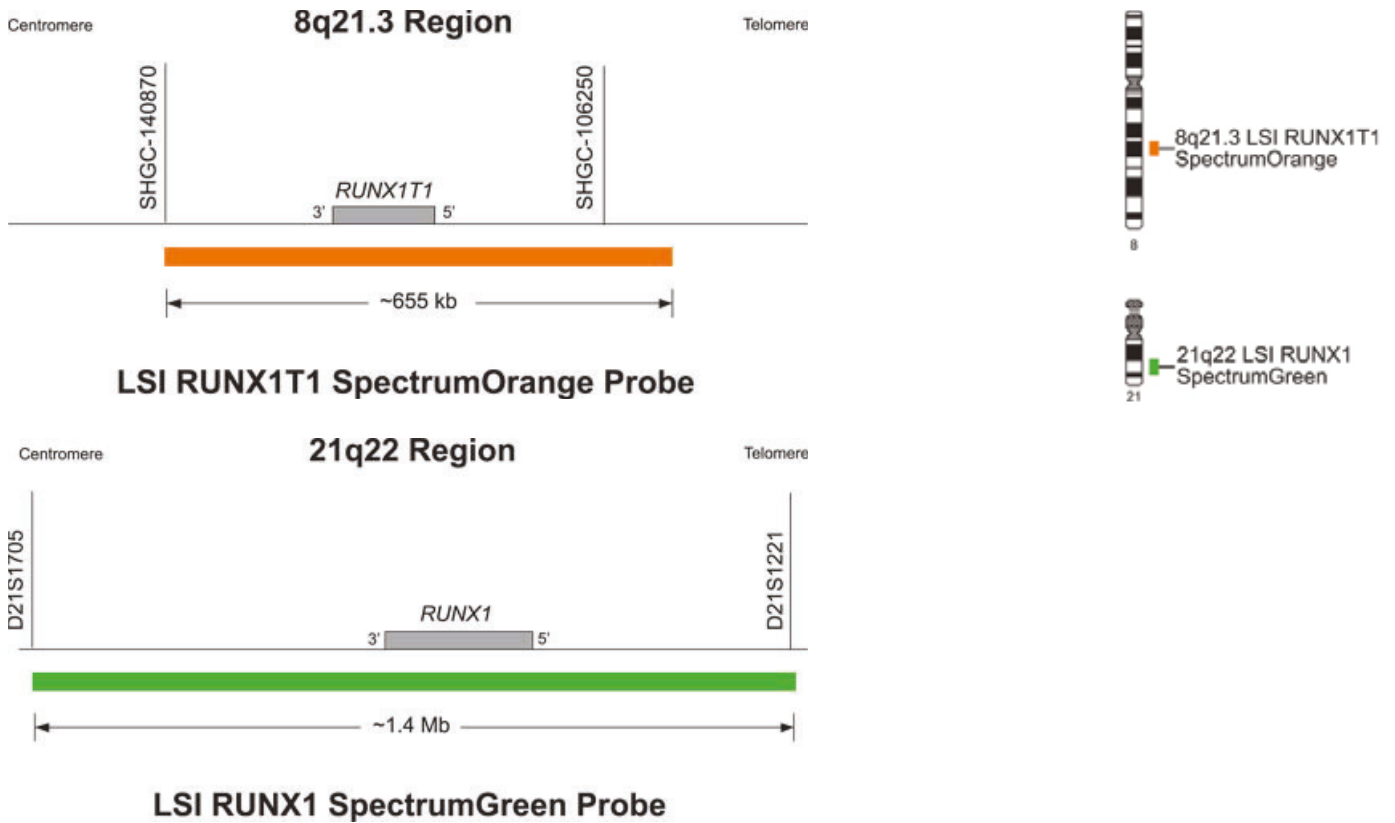
**Abnormal Hybridization:** Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes hybridized to a nucleus containing a simple balanced  $t(3;3)(q21.3;q26.2)$ . One orange, one green and two orange/green fusion signals are observed.



**Normal Hybridization:** Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes hybridized to a nucleus containing non-rearranged RPN1 and MECOM regions. Two orange and two green signals are observed.

Acute Myelogenous Leukemia (AML)

Vysis LSI RUNX1/RUNX1T1 DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RUNX1/RUNX1T1 DF FISH Probe Kit (CE)	20 µL	08L70-020	00884999031609

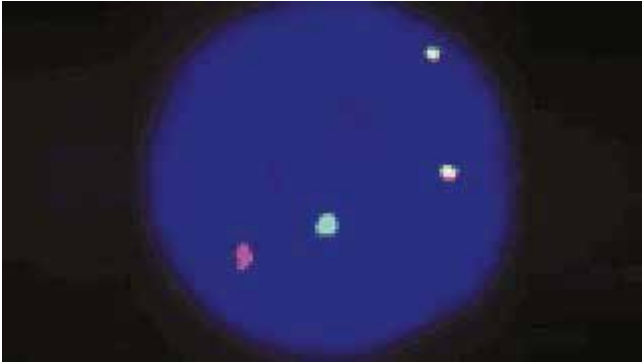
**PRODUCT DESCRIPTION**

These fluorescence in situ hybridization (FISH) probes are intended to detect the t(8;21)(q21.3;q22) reciprocal translocation involving the RUNX1 and RUNX1T1 gene regions.

The approximately 1.4 Mb SpectrumGreen probe spans the RUNX1 gene (chr21:34452353-35813329; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The approximately 655 kb SpectrumOrange probe spans the RUNX1T1 gene (chr8:92827265-93482325; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

## RESULTS OF HYBRIDIZATION

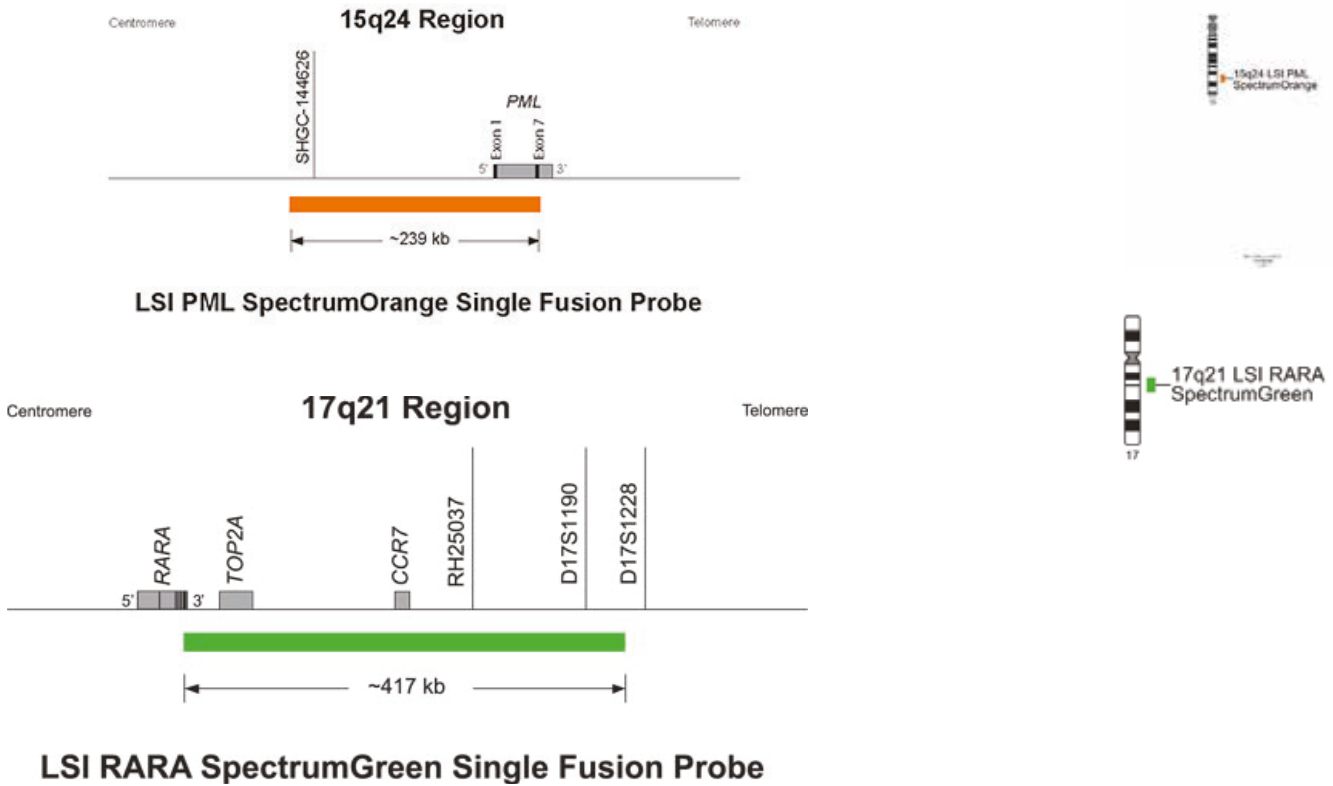
In a normal cell without the RUNX1/RUNX1T1 (also called AML1/ETO) fusion gene, two orange signals representing normal copies of RUNX1T1 and two green signals representing normal copies of RUNX1 are observed. In a cell containing the RUNX1/RUNX1T1 fusion gene, one orange (RUNX1T1), one green (RUNX1), and two orange/green (yellow) fusion signals are observed. The fusion signals represent the juxtaposition of the translocated portions of the two gene regions on the der(8) and the der(21). Variant RUNX1/RUNX1T1 signal patterns other than the most commonly observed one orange, one green, and two fusions (1O1G2F), may also occur.



**Abnormal Hybridization:** Vysis LSI RUNX1/RUNX1T1 Dual Color Dual Fusion Probes hybridized to an abnormal nucleus showing a one orange, one green and two fusion (1O1G2F) signal pattern.

Acute Myelogenous Leukemia (AML)

Vysis PML/RARA Single Fusion FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis PML/RARA DC Single Fusion FISH Probe Kit (CE)	20 µL	05N45-020	00884999014947

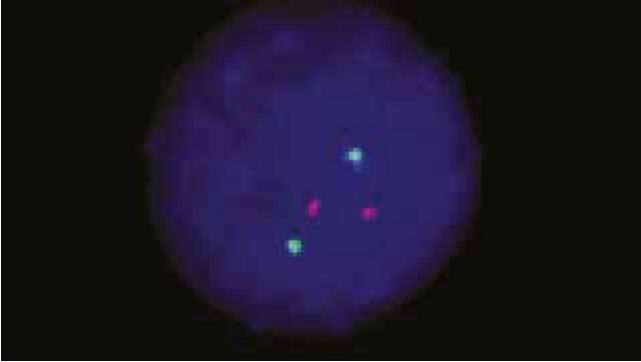
PRODUCT DESCRIPTION

The Vysis PML/RARA SF FISH Probes are intended to detect the t(15;17) (q22;q21.1) reciprocal translocation involving the PML and RARA gene regions.

The approximately 239 kb (chr15:71877721-72116436; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe lies centromeric to the PML gene. The approximately 417 kb (chr17:35762877-36180271; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe lies telomeric to the RARA gene.

## RESULTS OF HYBRIDIZATION

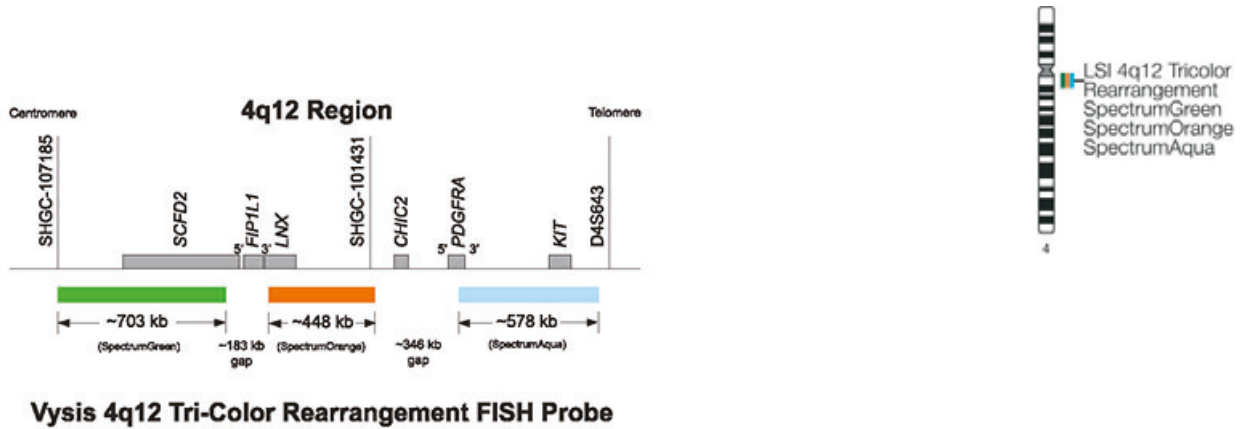
In a normal cell, the expected pattern for a nucleus hybridized with the LSI PML/ RARA probe is a two orange and two green (2O2G) signal pattern. In an abnormal cell containing a PML/RARA fusion, the one green (RARA), one orange (PML), and closely adjacent or fused green/orange (yellow) signal pattern (1O1G1F) is observed.



**Normal Hybridization:** LSI PML/RARA Dual Color Translocation Probe hybridized to a normal nucleus, showing a two orange, two green (2O2G) signal pattern.

Chronic Eosinophilic Leukemia (CEL)

Vysis 4q12 Tri-Color Rearrangement FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis 4q12 Tri-Color Rearrangement FISH Probe Kit (CE)	20 µL	05N52-020	00884999015005

PRODUCT DESCRIPTION

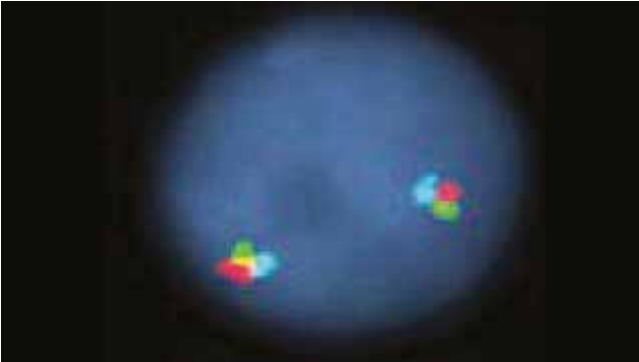
The Vysis 4q12 Tri-Color Rearrangement FISH Probe Kit is intended to detect rearrangements in chromosome 4q12 involving the FIP1L1- PDGFRA region, using the fluorescence in situ hybridization (FISH) technique.

The SpectrumGreen probe spans approximately 703 kb (chr4:53159272- 53862621; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and is located centromeric to the FIP1L1 gene region. The SpectrumOrange probe spans approximately 448 kb (chr4:54045936-54494304; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and is located between the FIP1L1 and the CHIC2 gene regions. The SpectrumAqua probe spans approximately 578 kb (chr4:54840090- 55418505; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and extends from the telomeric end of the PDGFRA gene region to beyond the KIT gene region.

## RESULTS OF HYBRIDIZATION

FISH signal patterns in nuclei having interstitial deletions of the orange probe target on one chromosome 4 homolog should be observed as one tricolor fusion and one green/aqua fusion lacking an orange signal. If the intervening orange probe target is not deleted, but relocated to another separate chromosomal location, the expected pattern would be one tri-color fusion, one green/aqua fusion and one lone orange signal. In instances of translocations involving the PDGFRA gene with loci on other chromosomes, the expected signal pattern would be one tri-color fusion, one orange/green fusion, and one separate aqua signal.

In interphase nuclei of normal cells, the probe is expected to appear as two tricolor (green, orange, aqua) fusions. In these fusions, overlapping orange and green signals may be perceived as yellow fusion signals with appropriate filters.



**Normal Hybridization:** Normal nucleus showing the two tricolor green/orange/aqua fusion signals.

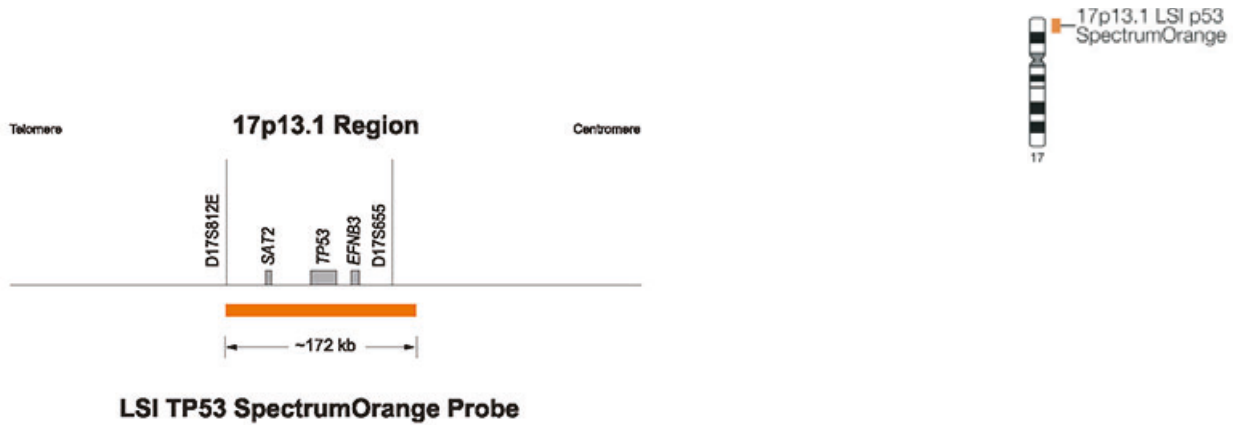


**Abnormal Hybridization:** Abnormal nucleus showing the one tricolor green/ orange/aqua fusion signal and one green/aqua fusion signal with the orange signal deleted.



Chronic Lymphocytic Leukemia (CLL)

Vysis LSI TP53 (17p13.1) SpectrumOrange Probe



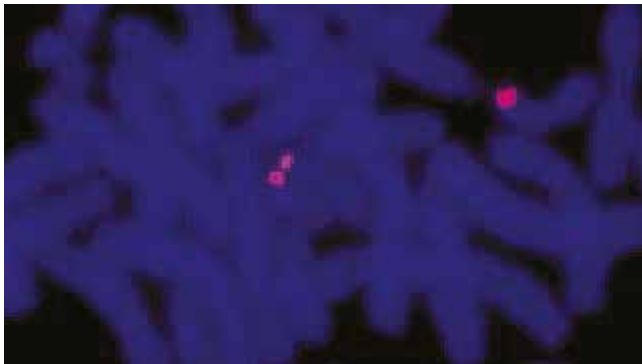
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (CE)	20 µL	08L64-020	00884999031548

PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect the loss of the LSI TP53 (p53) probe target sequence containing the p53 gene (TP53) at chromosomal location 17p13.1.

The approximately 172 kb SpectrumOrange LSI TP53 probe contains the complete p53 gene and is located at 17p13.1.

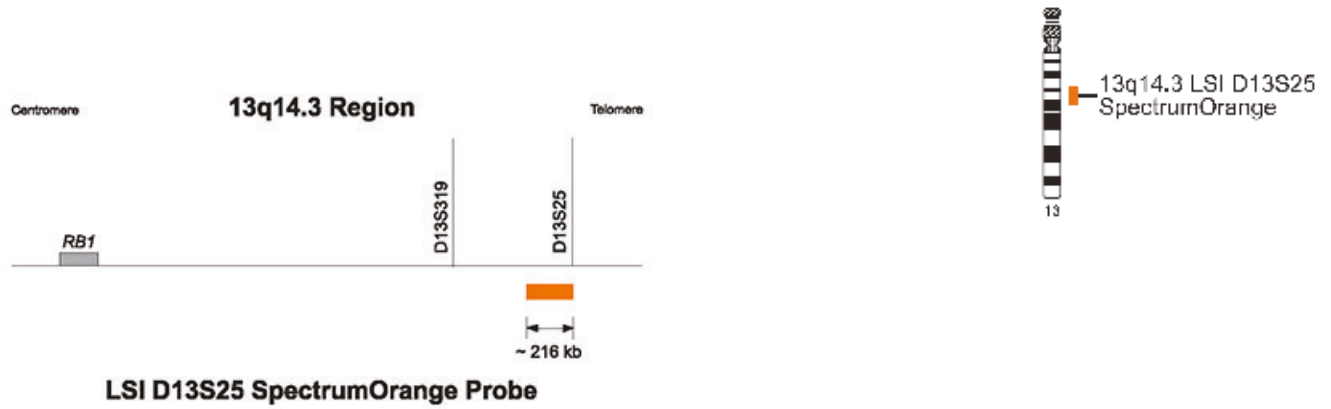
RESULTS OF HYBRIDIZATION



**Normal Hybridization:** LSI p53 Probe hybridized to a normal cell showing the two orange (2O) signal pattern.

Chronic Lymphocytic Leukemia (CLL)

Vysis LSI D13S25 (13q14.3) SpectrumOrange Probe



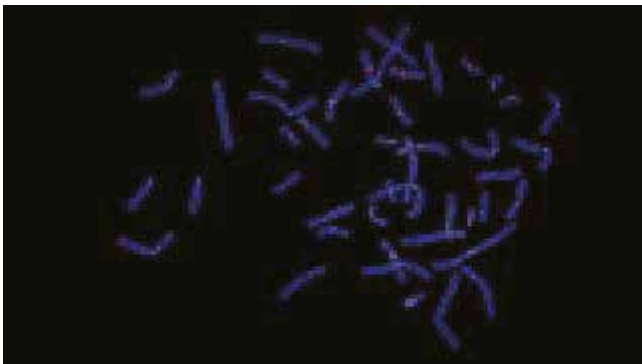
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D13S25 (13q14.3) SpectrumOrange (CE)	20 µL	01N37-020	00884999000797

PRODUCT DESCRIPTION

Vysis LSI D13S25 (13q14.3) SpectrumOrange Probe is intended to detect the deletion of the Locus Specific Identifier (LSI) D13S25 probe target on chromosome band 13q14. The LSI D13S25 SpectrumOrange genomic target spans about 216 kb.

RESULTS OF HYBRIDIZATION

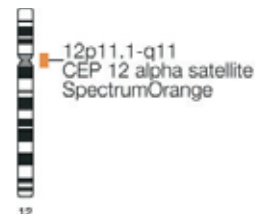
In a normal cell, the expected pattern for a nucleus hybridized with the LSI D13S25 probe is the two orange (2O) signal pattern. In a hybridized abnormal cell containing the deletion, the one orange (1O) signal pattern will be observed.



**Normal Hybridization:** LSI D13S25 Single Color Probe hybridized to a normal metaphase showing the two orange (2O) signal pattern.

## Chronic Lymphocytic Leukemia (CLL)

## Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit <b>(CE)</b>	20 Assays	07J22-012	00884999027084
Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) <b>(CE)</b>	20 Assays	07J20-012	00884999027015
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-001	00884999027039
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-002	00884999027046

## PRODUCT DESCRIPTION

The CEP 12 SpectrumOrange DNA Probe Kit is intended to detect AT rich alpha satellite sequences in the centromere region of chromosome 12 in conjunction with routine diagnostic cytogenetic testing. It is indicated for use as an adjunct to standard cytogenetic analysis for identifying and enumerating chromosome 12 via fluorescence in situ hybridization (FISH) in interphase nuclei of cells obtained from peripheral blood lymphocytes in patients with B-cell chronic lymphocytic leukemia (CLL). It is not intended to be used as a stand alone assay for test reporting; FISH results are intended to be reported and interpreted only in conjunction with results of standard cytogenetic analysis, performed concurrently, using the same patient specimen. The CEP 12 assay has not been validated for purposes other than those described above. It is not intended for use with test matrices other than peripheral blood lymphocytes from subjects with CLL, to screen for chromosome 12 aneuploidy, eg, in asymptomatic individuals, or to monitor patients for residual disease.

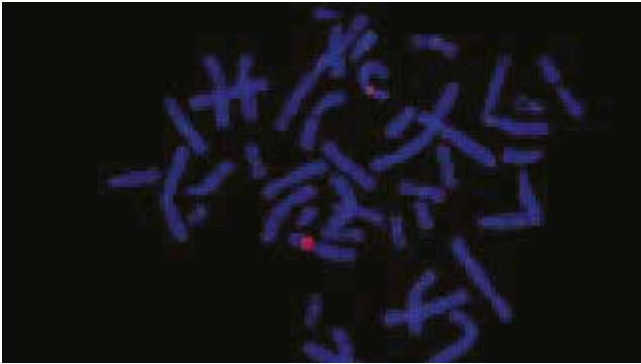
This kit contains:

- CEP 12 DNA probe pre-denatured in hybridization buffer (1 vial, 220 µL/vial)
- NP-40 detergent for wash solution (1 vial, 1 mL/vial)
- DAPI II counterstain (1 vial, 300 µL/vial)
- 20X Standard Sodium Citrate (SSC) Salt (1 bottle, 66 g)

To learn more about the Vysis CEP 12 SpectrumOrange DNA Probe Kit please visit: <https://www.molecular.abbott/int/en/products/vysis-cep-12-dna-probe-kit>

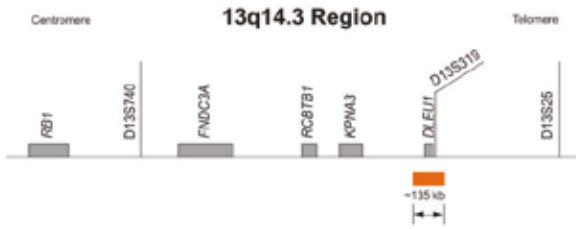
## RESULTS OF HYBRIDIZATION

In a normal cell, the expected pattern for CEP 12 is the two orange (2O) signal pattern. In an abnormal cell containing trisomy 12, the expected pattern will be the three orange (3O) signal pattern.

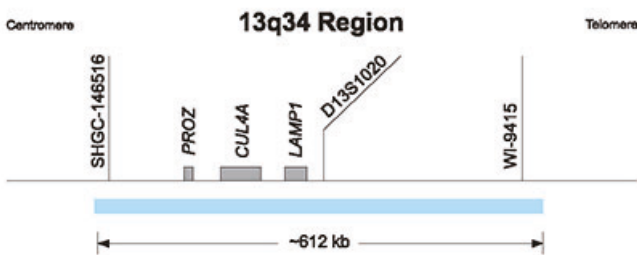


**Normal Hybridization:** CEP 12 SpectrumOrange hybridized to a normal cell showing two orange signals indicating two copies of chromosome 12.

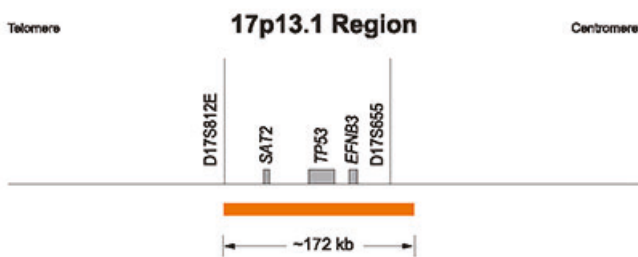
Chronic Lymphocytic Leukemia (CLL)  
 Vysis CLL FISH Probe Kit



LSI D13S319 SpectrumOrange Probe



LSI 13q34 SpectrumAqua Probe



LSI TP53 SpectrumOrange Probe

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CLL FISH Probe Kit (CE)	20 Assays	04N02-022	00884999045101

## PRODUCT DESCRIPTION

The Vysis CLL FISH Probe Kit uses FISH DNA probe technology to determine deletion status of probe targets for locus-specific identifier (LSI) TP53 (containing tumor protein p53 gene, located on chromosome 17p), LSI ATM (containing ataxia telangiectasia mutated gene, located on chromosome 11q), and LSI D13S319 (containing marker D13S319, located on chromosome 13q), as well as determining trisomy 12 with CEP12 (D12Z3 alpha satellite, located on chromosome 12). The Vysis CLL FISH Probe Kit includes LSI 13q34 (containing lysosomal-associated membrane protein 1 gene, located on chromosome 13q) as a control probe.

### Explanation of the Test

Chronic lymphocytic leukemia (CLL) is the most common form of adult leukemia in the developed world. Approximately 1 in 202 men and women will be diagnosed with CLL during their lifetime. The median age at diagnosis is approximately 70 years of age. Incidence rates are higher for males (6.44 per 100,000 population) than females (3.51 per 100,000 population). Leukemia incidence is highest among non-Hispanic whites (13.6 per 100,000 population); incidence is lowest among Asian and Pacific Islander populations (7.4 per 100,000 population) and American Indian and Alaska Native populations (7.3 per 100,000 population).

### Probe Targets Information

The tumor suppressor protein, p53, has been shown to play a critical role in oncogenesis and response to chemotherapy in a variety of human cancers. In humans, the TP53 gene is found on the short arm of chromosome 17 (17p13) and is reported to be suppressed or mutated in a large number of human cancers. Deletions of the 17p region resulting in abnormalities of the tumor suppressor protein p53 have been identified as one of the poorest prognostic factors for CLL as it is predictive of short time to disease progression, short response duration, lack of response to therapy and short overall survival (OS).

The 17p deletion is more frequently observed in treated patients than in previously untreated patients, increasing in frequency during the course of the disease with up to 50% of patients with relapsed or refractory disease having the deletion. Approximately 8 to 12% of patients with CLL in the first line treatment carry del 17p. It is widely accepted that treatment outcomes in patients with del 17p are poor.

Once patients fail purine analog based chemoimmunotherapy, subsequent therapies provide shorter progression-free survival (PFS). The outcome to treatment is strongly impacted by several molecular biologic features and several nonrandom cytogenetic alterations and oncogenes. In particular, an ultra-high risk group of CLL patients has been defined who have deletion of the short arm of chromosome 17 (del17p) with a median life expectancy of less than 2 to 3 years.

### Patient Impact

Currently, most patients diagnosed with CLL have early stage-disease (Rai stage 0 or 1). Patients with early-stage CLL are a heterogeneous group; approximately 30% to 50% are at high risk of accelerated disease progression, and the remainder may live for decades and possibly never require therapy. Recent insights into the biological characteristics of leukemic B cells have led to the discovery of new prognostic tools (immunoglobulin variable-region heavy chain gene mutation status, cytogenetic abnormalities assessed by fluorescence in situ hybridization [FISH], and Z-chain-associated protein kinase-70 protein expression) that can contribute to the identification of patients with early-stage disease who are at high risk for early disease progression.

Routine karyotype analysis only detects chromosomal aberrations associated with CLL in 40% to 50% of the cases. Use of FISH and other technologies have detected genomic abnormalities in over 80% of cases of CLL. The common genomic aberrations seen are trisomy 12 and deletions of 13q, 17p, and 11q.

Several published studies suggest that some of these chromosomal abnormalities may be correlated with various disease parameters.

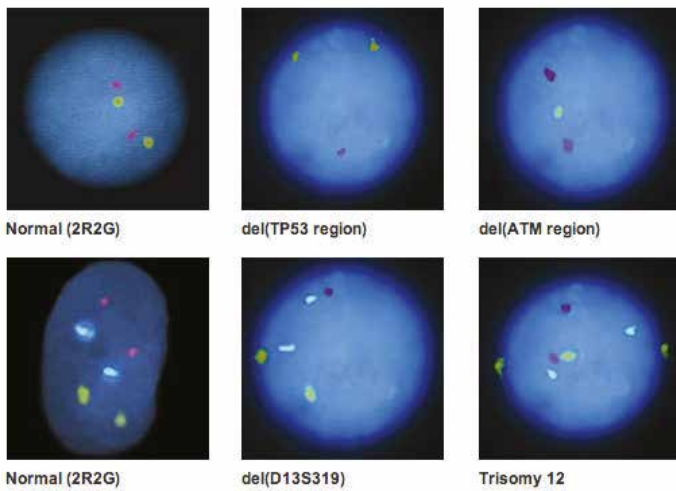
To learn more about the Vysis CLL FISH Probe Kit please visit: <https://www.molecular.abbott/int/en/products/oncology/vysis-cll-fish-probe-kit>

RESULTS OF HYBRIDIZATION

Each probe produces a single FISH signal for each copy of its target sequence. Hybridization of Vysis LSI TP53 SpectrumOrange/ATM SpectrumGreen Probes is expected to produce two orange p53 and two green ATM signals in cells with two normal copies of chromosomes 17 and 11.

Hybridization of Vysis LSI D13S319 SpectrumOrange/13q34 SpectrumAqua/CEP 12 SpectrumGreen Probes is expected to produce two orange D13S319, two green CEP12, and two aqua LSI 13q34 signals in cells having two normal copies of chromosomes 12 and 13.

Gains or losses of a specific probe target sequence will be observed as cells with either greater than or less than, respectively, two signals for that probe. While some abnormal CLL specimens are aberrant for only one probe locus, others may be abnormal for two or more loci. Other abnormal signal patterns may also occur.



Chronic Lymphocytic Leukemia (CLL)

Vysis LSI ATM (11q22.3) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ATM (11q22.3) SpectrumOrange Probe (CE)	20 µL	01N33-020	00884999000759

PRODUCT DESCRIPTION

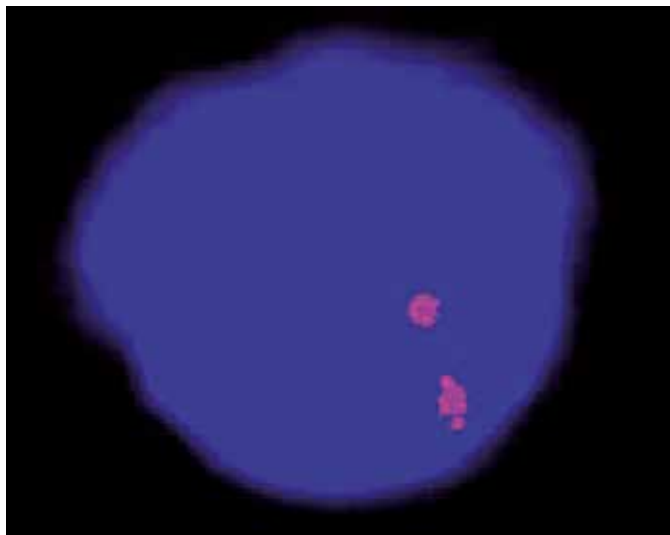
This fluorescence in situ hybridization (FISH) probe is intended to detect deletion of the LSI ATM probe target sequence containing the ATM gene at chromosomal location 11q22.3.

The approximately 732 kb SpectrumOrange LSI ATM probe contains the complete ATM gene and is located at 11q22.3.

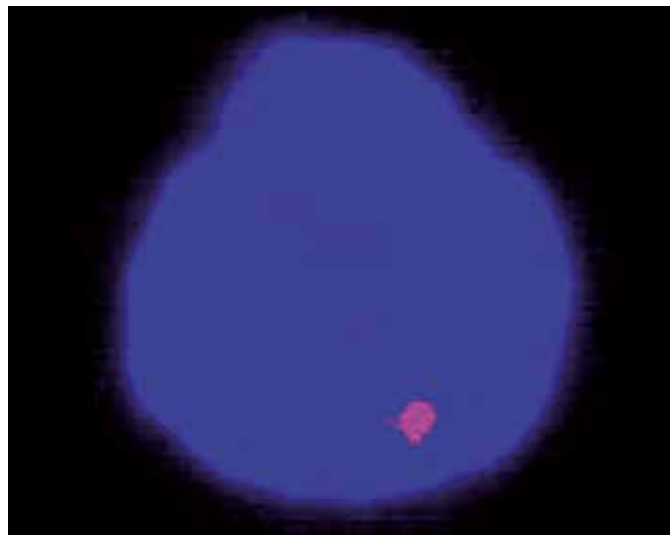


### RESULTS OF HYBRIDIZATION

This probe set allows status assessment of the ATM gene region on chromosome 11q22.3. In a normal cell with two intact copies of the ATM gene region, a two orange signal pattern will be observed.



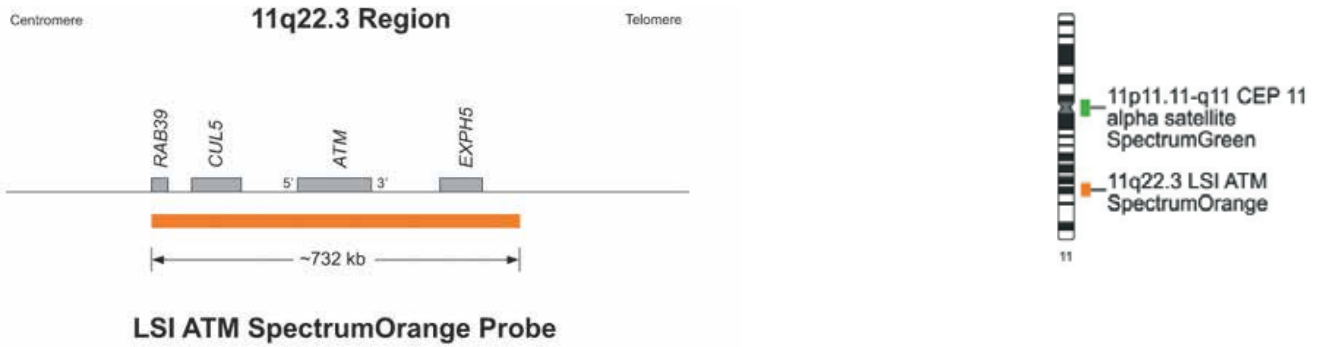
**Normal Hybridization:** Result of the hybridization of the LSI ATM (11q22.3) Probe as observed in a normal interphase cell.



**Abnormal Hybridization:** Abnormal cell hybridized with the LSI ATM (11q22.3) Probe. The cell in this image shows the one orange signal pattern indicative of a deletion of one copy of the ATM gene region on chromosome 11q22.3.

Chronic Lymphocytic Leukemia (CLL)

Vysis LSI ATM / CEP 11 FISH Probe Kit

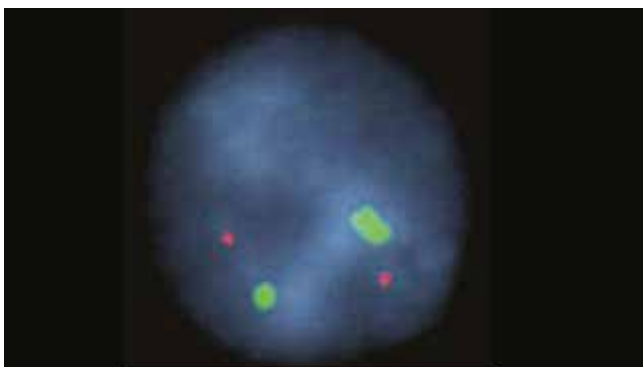


PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ATM/CEP 11 FISH Probe Kit <b>(CE)</b>	20 µL	05N55-020	00884999015043

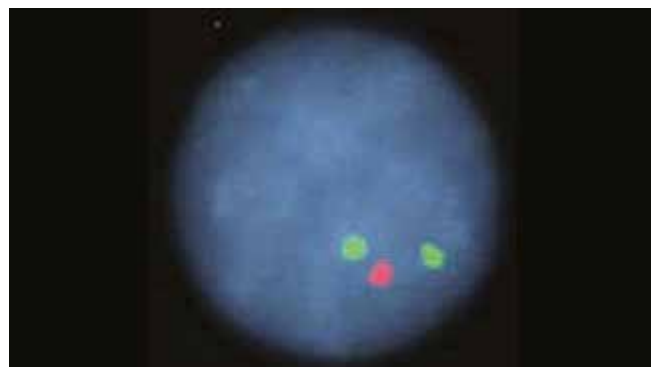
PRODUCT DESCRIPTION

The Vysis LSI ATM/CEP 11 FISH Probe Kit is intended to detect the copy number of the LSI ATM probe target located at chromosome 11q22.3. The approximately 732 kb SpectrumOrange LSI ATM probe contains the complete ATM (ataxia telangiectasia mutated) gene and is located at chromosome 11q22.3 (chr11:107306249-108038407; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The SpectrumGreen CEP 11 probe is a control probe which hybridizes to the centromere region of chromosome 11p11.11-q11.

RESULTS OF HYBRIDIZATION



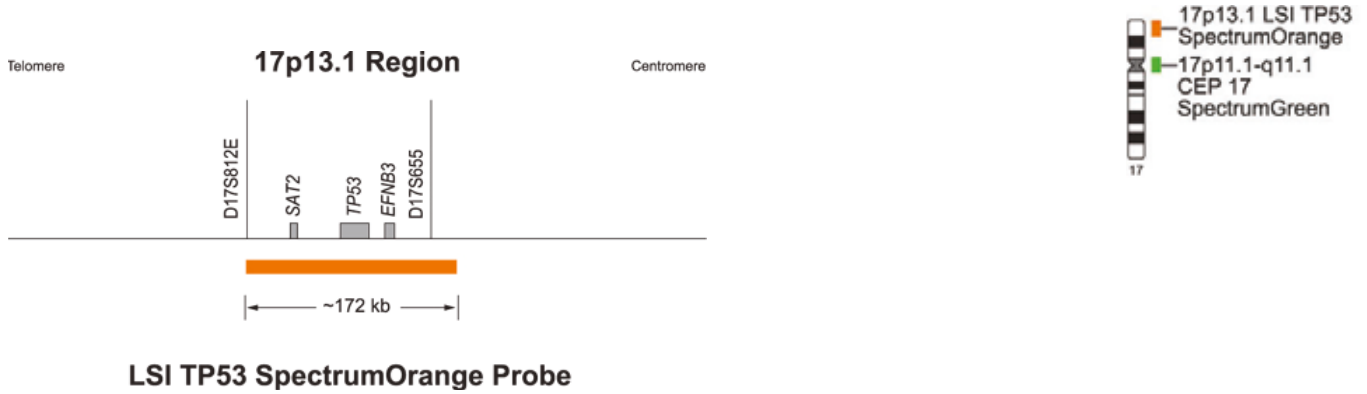
**Normal Hybridization:** Nucleus showing the two green and two orange signals.



**Abnormal Hybridization:** Nucleus showing the two green and one orange signals.

Chronic Lymphocytic Leukemia (CLL)

Vysis LSI TP53 / CEP 17 FISH Probe Kit



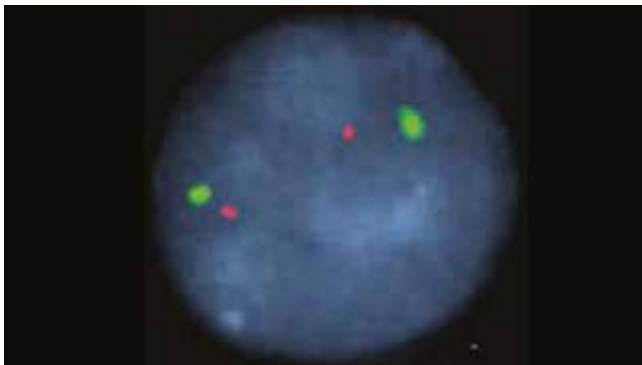
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TP53/CEP 17 FISH Probe Kit (CE)	20 µL	05N56-020	00884999015050

PRODUCT DESCRIPTION

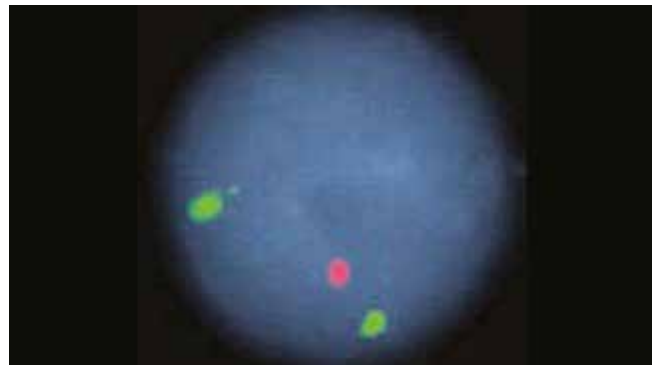
The Vysis TP53/CEP 17 FISH Probe Kit is intended to detect the copy number of the LSI TP53 probe target located at chromosome 17p13.1 and of the CEP 17 probe target located at the centromere of chromosome 17.

The approximately 172 kb SpectrumOrange TP53 probe contains the complete TP53 gene and is located at chromosome 17p13.1 (chr17:7435119-7606823; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The SpectrumGreen CEP 17 probe is a control probe which hybridizes to the centromere region of chromosome 17p11.1-q11.1.

RESULTS OF HYBRIDIZATION



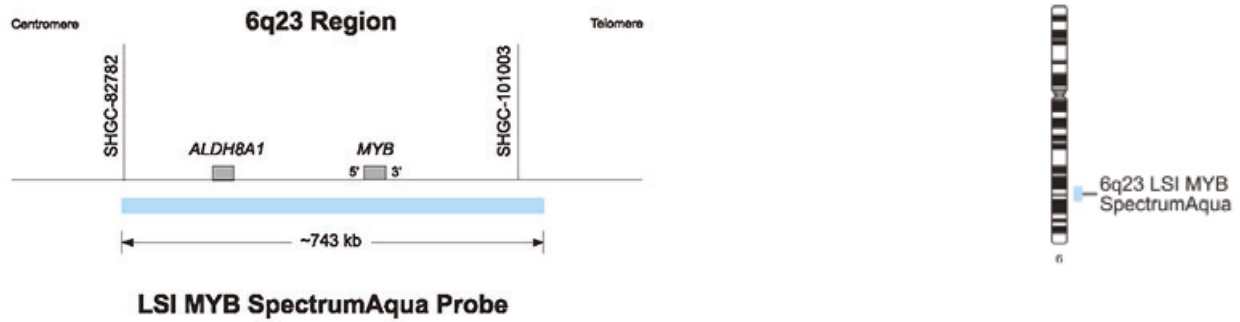
**Normal Hybridization:** Nucleus showing the two green and two orange signals.



**Abnormal Hybridization:** Nucleus showing the two green and one orange signals.

Chronic Lymphocytic Leukemia (CLL)

Vysis LSI MYB SpectrumAqua FISH Probe Kit



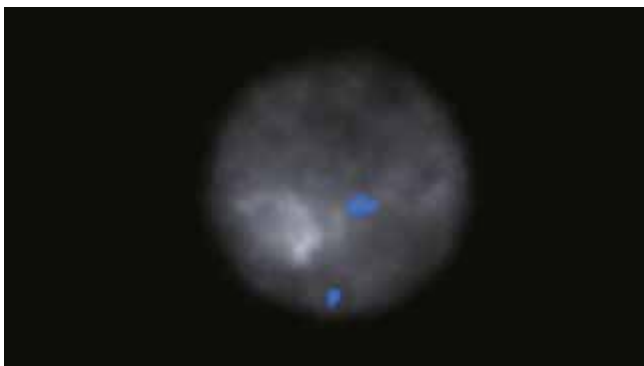
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYB SpectrumAqua FISH Probe Kit (CE)	20 µL	05N40-020	00884999014916

PRODUCT DESCRIPTION

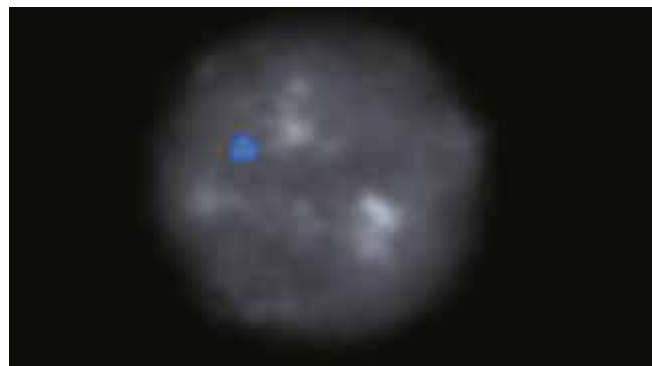
This fluorescence in situ hybridization (FISH) probe is intended to detect the copy number of the LSI MYB probe target located at chromosome 6q23. The approximately 743 kb SpectrumAqua LSI MYB (6q23) probe contains the complete MYB gene and is located at chromosome 6q23. (chr6:135117337-135860164; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

RESULTS OF HYBRIDIZATION

Hybridization of this probe to interphase and metaphase nuclei of normal cells is expected to be seen as two aqua signals. The anticipated signal pattern in individuals with a deletion of the 6q23 region would be seen as a single aqua signal. Other patterns may be observed if additional genetic alterations are present.



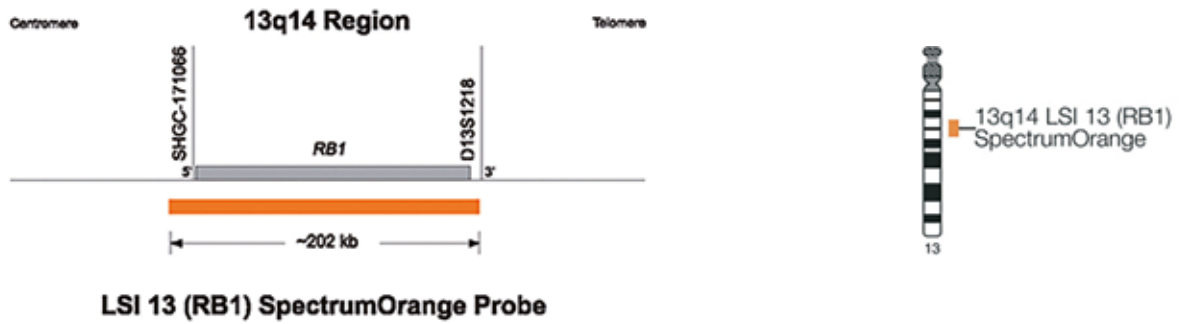
**Normal Hybridization:** Normal cell hybridization using the Vysis LSI MYB (6q23) Probe.



**Abnormal Hybridization:** Abnormal cell hybridization using the Vysis LSI MYB (6q23) Probe.

Chronic Lymphocytic Leukemia (CLL)

Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555

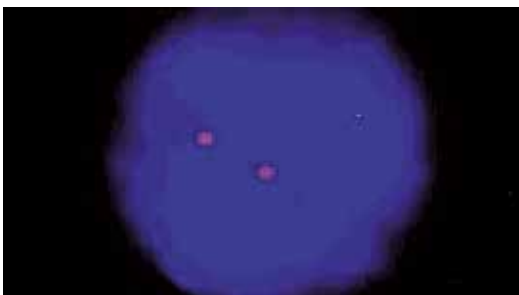
PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect the deletion of the LSI RB1 probe target sequence containing the RB1 gene at chromosomal location 13q14.

The approximately 202 kb SpectrumOrange LSI RB1 probe contains the complete RB1 gene and is located at 13q14.

RESULTS OF HYBRIDIZATION

In a normal cell, the expected result for a nucleus hybridized with the LSI 13 (RB1) probe is a two orange (2O) signal pattern. In a hybridized abnormal cell containing the deletion, a one orange (1O) signal pattern will be observed.



Chronic Lymphocytic Leukemia (CLL)

Vysis MDM2 / CEP 12 FISH Probe Kit

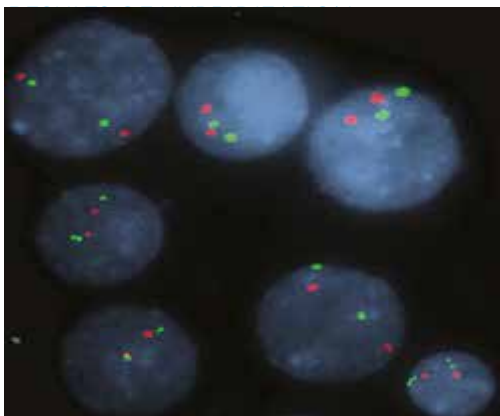


PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MDM2/CEP 12 FISH Probe Kit (CE)	10 µL	01N15-010	00884999035362

PRODUCT DESCRIPTION

The Vysis MDM2/CEP 12 FISH Probe Kit is intended to detect the copy number of the LSI MDM2 probe target located at chromosome 12q15 using the fluorescence in situ hybridization (FISH) technique.

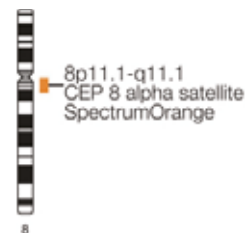
The approximately 209 kb (chr12:67,420,133-67,629,503; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe spans MDM2 gene on 12q15. The SpectrumGreen CEP 12 probe hybridizes to alphoid sequences found within the centromere of chromosome 12 (12p11.1-q11).



**Normal Hybridization:** Nuclei or metaphase chromosome sets lacking the MDM2 amplification are expected to exhibit two orange and two green signals. Amplification of MDM2 would exhibit more than two orange signals and amplification of centromere 12 would exhibit more than two green signals.

## Chronic Myelogenous Leukemia (CML)

## Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit <b>(CE)</b>	20 Assays	07J22-008	00884999027077
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) <b>(CE)</b>	20 Assays	07J20-008	00884999027008
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-001	00884999027039
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-002	00884999027046

## PRODUCT DESCRIPTION

CEP 8 is a SpectrumOrange labeled probe specific for the alpha satellite (centromeric) region, 8p11.1-q11.1.

The CEP 8 DNA Probe Kit which is available for in vitro diagnostic use and may be used as an adjunct to standard karyotyping to identify and enumerate chromosome 8 in cells obtained from bone marrow. In multi-site clinical trials, the CEP 8 DNA Probe Kit for interphase analysis was 96% sensitive and 98% specific as compared to traditional cytogenetic analysis. A close association has been made between trisomy 8 and both myeloid blast crisis and basophilia. Trisomy 8 is a prevalent genetic aberration in several specific diseases:

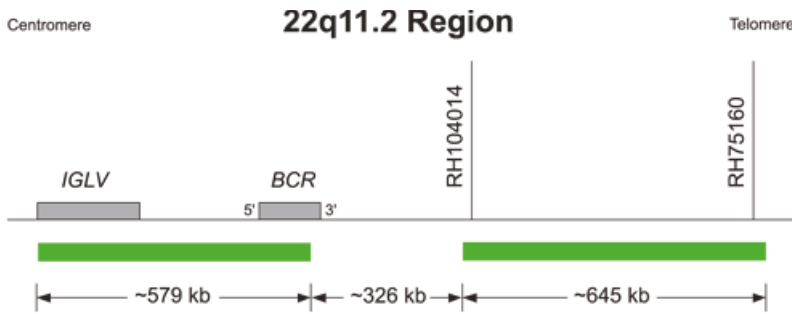
- Chronic Myelogenous Leukemia (CML)
- Acute Myeloid Leukemia (AML)
- Myeloproliferative disorders (MPD)
- Myelodysplastic Syndrome (MDS)
- Other hematologic disorders not specified (HDNOS)

## CEP 8 SPECTRUMORANGE DNA PROBE KIT CONTENT

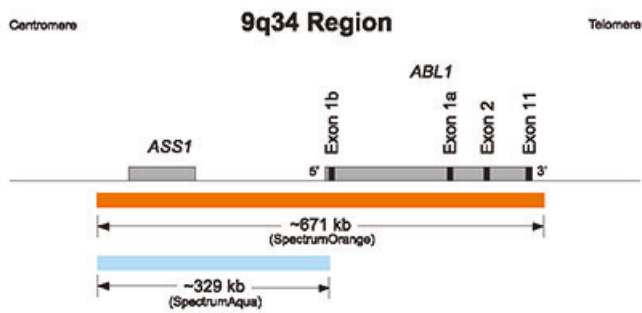
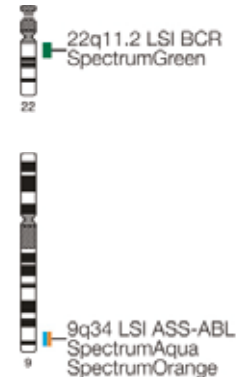
- CEP 8 SpectrumOrange alpha satellite DNA for centromere region 8p11.1-q11.1 predenatured in hybridization buffer (220 µL)
- NP-40 (detergent for wash solution: 1000 µL)
- DAPI II counterstain (300 µL)
- 20X SSC (66 g)

Chronic Myelogenous Leukemia (CML)

Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe Kit



**LSI BCR SpectrumGreen Dual Fusion Probe**



**LSI ASS1-ABL1 Dual Fusion Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036



## PRODUCT DESCRIPTION

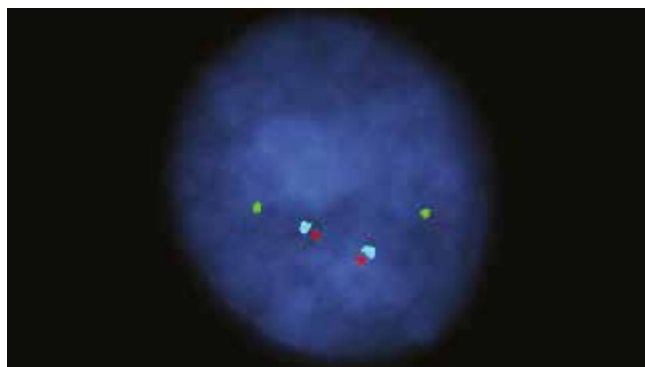
The Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe Kit is intended to detect the t(9;22)(q34;q11.2) reciprocal translocation involving the BCR and ABL1 gene regions using the fluorescence in situ hybridization (FISH) technique.

The t(9;22) translocation which fuses the BCR gene on chromosome 22q11.2 and the ABL1 gene on chromosome 9q34 is observed by cytogenetics in greater than 80% of patients with chronic myelogenous leukemia (CML). In CML cases lacking a cytogenetically detectable translocation, the BCR/ABL1 fusion can still almost always be detected by FISH or other molecular techniques. BCR/ABL1 fusions also occur in a portion of acute lymphocytic leukemia cases and more rarely in acute myeloid leukemia. In about 15 to 20 percent of CML cases, the t(9;22) results in the loss of genetic material flanking the BCR and/or ABL1 breakpoints on the derivative 9 chromosome. This loss can prevent the production of the highly specific two-fusion signal patterns expected of dual fusion probes and balanced translocations. If both BCR and ABL1 targets are deleted on the der(9) chromosome, low-level random overlap of orange and green signals within normal cells (producing a 1 orange, 1 green, 1 fusion pattern) cannot be discriminated from low-level true BCR/ABL1 fusions producing the same pattern. The Tri-Color design of this test uses a probe in a third color (aqua) on the centromeric side of the ABL1 breakpoint, which co-localizes with the orange signal in a random orange/green signal fusion, but is absent from a true BCR/ABL1 molecular fusion on the der(22) chromosome. The probes in this kit have been used in published papers to detect low levels of positive cells in CML patients who were undergoing therapy and had deletions of FISH signals on the derivative chromosome 9.

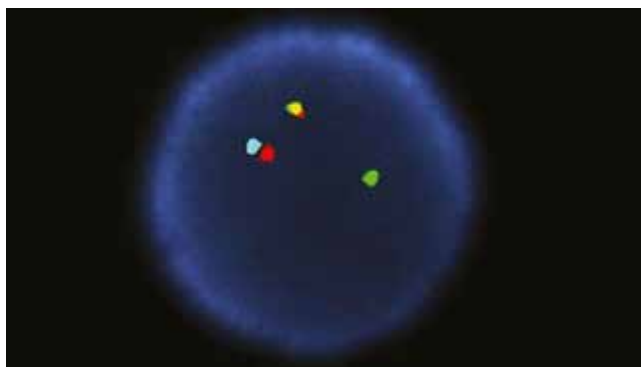
The approximately 671 kb (chr9:132255025-132926107; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI ABL1 probe spans the ABL1 and ASS1 genes on chromosome 9q34. The approximately 329 kb (chr9:132255025-132584487; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumAqua LSI ASS1 probe overlaps with part of the area covered by the SpectrumOrange probe, spans the ASS1 gene and lies centromeric to the ABL1 gene breakpoint regions.

The SpectrumGreen LSI BCR probe consists of two probes located at chromosome 22q11.2. The centromeric segment of the SpectrumGreen probe is approximately 579 kb (chr22:21382633-21962088; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), and contains the majority of the BCR gene. The telomeric segment of the SpectrumGreen probe is approximately 645 kb (chr22:22288218-22932815; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), and it lies telomeric to the BCR gene breakpoint region. There is an approximate 326 kb gap between the two green probes.

## RESULTS OF HYBRIDIZATION



**Normal Hybridization:** Nucleus showing the two aqua/orange and two green signal pattern.



**Abnormal Hybridization:** Nucleus showing the one aqua/orange, one green, and one orange/green fusion (yellow) signal pattern.

### Intended Use

The CEP 8 SpectrumOrange DNA Probe Kit is intended to detect AT rich alpha satellite sequences in the centromere region of chromosome 8 in conjunction with routine diagnostic cytogenetic testing. It is indicated for use as an adjunct to standard cytogenetic analysis for identifying and enumerating chromosome 8 via fluorescence in situ hybridization (FISH) in interphase nuclei and in metaphase spreads of cells obtained from bone marrow in patients with myeloid disorders [Chronic myelogenous leukemia (CML), Acute myeloid leukemia (AML), Myeloproliferative disorder (MPD), Myelodysplastic syndrome (MDS), and Hematological disorders not otherwise specified (HDNOS)]. It is not intended to be used as a stand alone assay for test reporting. It is not intended for use in long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.

### Limitations

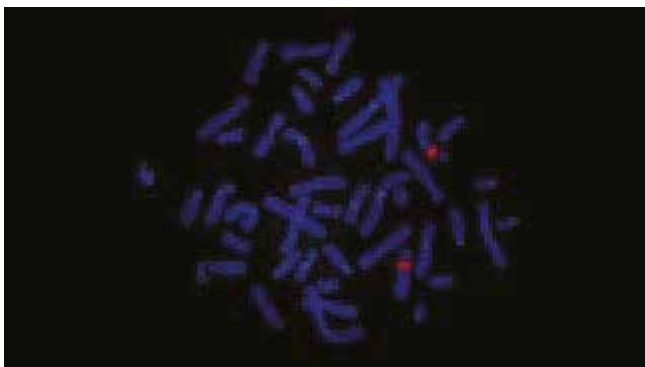
- The CEP 8 SpectrumOrange DNA Probe Kit has been characterized only for identifying chromosomes in nuclear preparations or metaphase spreads from bone marrow specimens.
- The clinical interpretation of any test results should be done in conjunction with standard cytogenetic analysis and should be evaluated within the context of the patient's medical history and other diagnostic laboratory test results.
- Clinical specimens with >2.2% tri-sigaled nuclei are considered to have an abnormal trisomy 8 clone. Those with  $\leq$  2.2% tri-sigaled nuclei should be considered normal, although the presence of trisomy 8 is not completely excluded.
- The CEP 8 SpectrumOrange DNA Probe Kit is not intended for long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.
- FISH assay results may not be informative if the specimen quality and/or specimen slide preparation is inadequate.
- If significant peripheral blood contamination is present in the bone marrow specimen, the blood may dilute the specimen; it is important to recognize the potential effects this dilution effect may have on the FISH assay results.
- It is possible that patients may have chromosome polymorphism which may hybridize with CEP 8 probe. FISH metaphase analysis should be done in addition to FISH interphase analysis. Polymorphism was not investigated in the clinical trials.
- This assay will not detect the presence of other chromosome abnormalities frequently associated with hematological disorders.
- The efficacy of this assay for monitoring of trisomy 8 or disease progression has not been demonstrated.

To learn more about Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit please visit:

<https://www.molecular.abbott/int/en/products/vysis-cep-8-dna-probe-kit>

## RESULTS OF HYBRIDIZATION

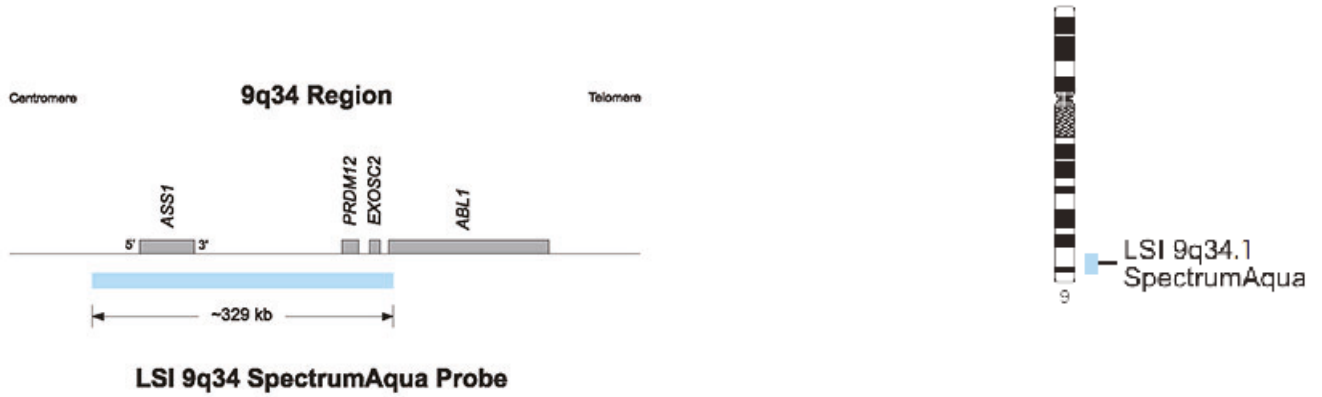
In a normal cell, the expected pattern for a nucleus hybridized with the CEP 8 probe is a two orange (2O) signal pattern. In an abnormal cell containing trisomy 8, the expected pattern will be a three orange (3O) signal pattern.



**Normal Hybridization:** CEP 8 SpectrumOrange hybridized to a normal cell showing two orange signals indicating two copies of chromosome 8.

Chronic Myelogenous Leukemia (CML)

Vysis LSI 9q34 SpectrumAqua FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 9q34 SpectrumAqua FISH Probe Kit (CE)	20 µL	05N53-020	00884999015012

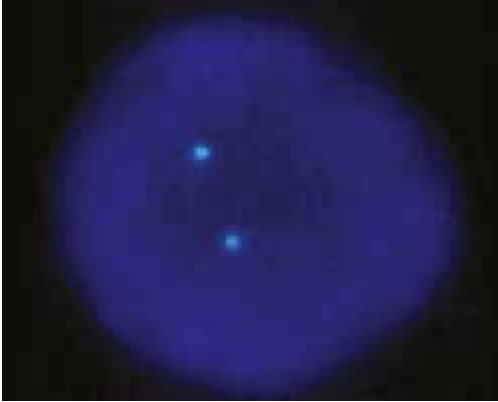
PRODUCT DESCRIPTION

The Vysis LSI 9q34 SpectrumAqua FISH Probe Kit is intended to detect deletion of the Vysis 9q34 probe target region using the fluorescence in situ hybridization (FISH) technique.

The approximately 329 kb (chr9:132255025-132584487; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumAqua probe spans the ASS1 gene at 9q34.

## RESULTS OF HYBRIDIZATION

This probe is provided for those interested in assessing the deletion status of the 9q34 region of chromosome 9. In a normal cell with two intact copies of chromosome 9, two aqua signals will be observed. In an abnormal cell that has lost the 9q34 region of chromosome 9, fewer than two aqua signals will be observed.



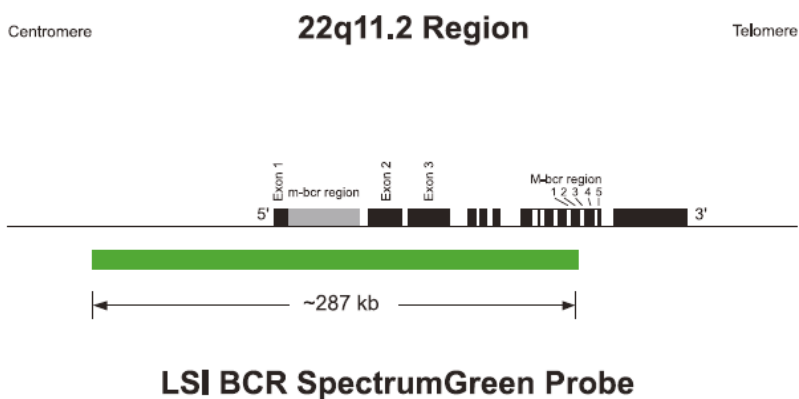
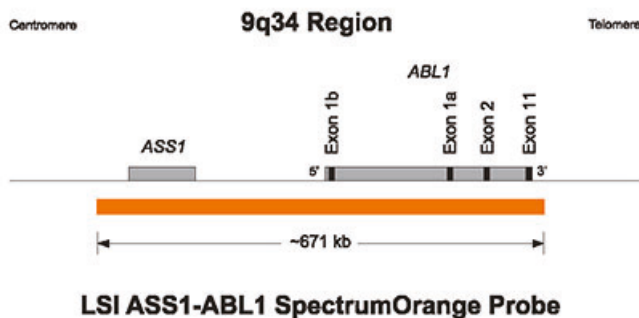
**Normal Hybridization:** Result of the hybridization of the LSI 9q34 Probe as observed in a normal interphase cell.



**Abnormal Hybridization:** Abnormal cell hybridized with the LSI 9q34 Probe. The cell in this image shows deletion of one copy of the 9q34 region of chromosome 9 as indicated by the single aqua signal.

Chronic Myelogenous Leukemia (CML)

Vysis LSI BCR/ABL ES Dual Color Translocation Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR, ABL ES Dual Color Translocation Probe Kit (CE)	20 µL	08L55-020	00884999031456

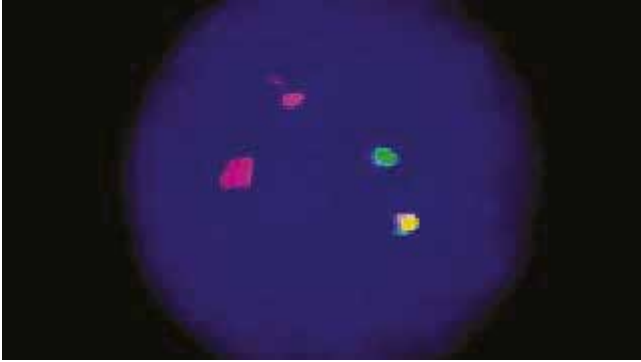
**PRODUCT DESCRIPTION**

The BCR/ABL ES Dual Color Translocation Probe is intended to detect the t(9;22)(q34;q11.2) and complex or masked variants of t(9;22) that result in the BCR/ABL gene fusion. The probe may be used with metaphase chromosomes or interphase nuclei.

The approximately 671 kb SpectrumOrange ABL1 probe extends from a point centromeric of the arginosuccinate synthase gene (ASS1) to telomeric of the ABL1 gene on chromosome 9. The SpectrumGreen BCR probe begins between exons 13 and 14 (major breakpoint cluster region [M-bcr] exons 3 and 4) and extends toward the chromosome 22 centromere for approximately 287 kb. The BCR probe flanks the expected M-bcr breakpoints, but spans the minor breakpoint cluster region (m-bcr) for t(9;22)(q34;q11.2).

## RESULTS OF HYBRIDIZATION

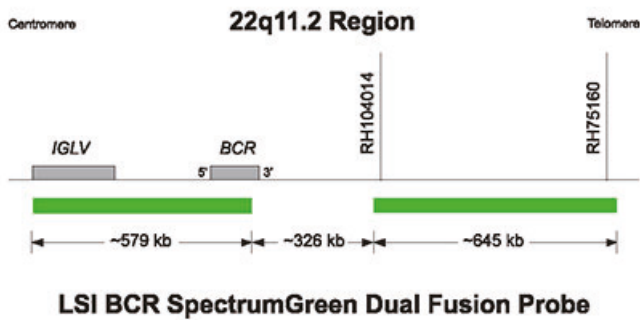
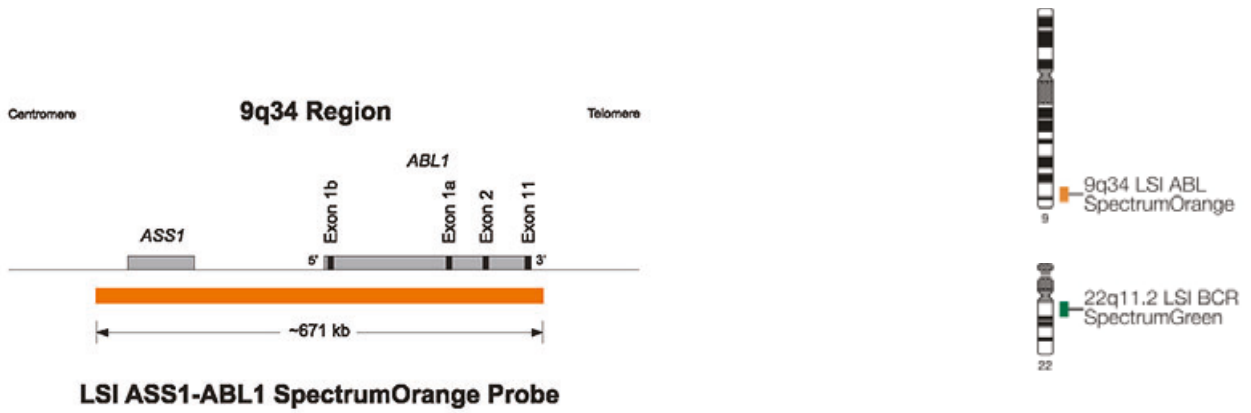
A nucleus lacking the t(9;22) will exhibit a two orange, two green (2O2G) signal pattern. In a nucleus possessing the t(9;22) involving the M-bcr, one green (native BCR), one large orange (native ABL), one smaller orange (ES), and one fused orange/green signal (5' BCR/3' ABL), (2O1G1F) will be observed. Minor breakpoint (m-bcr) signal patterns may appear as one orange, one green, and two fusion signals. In some cells a deletion may occur 5' of the ABL breakpoint that may reduce the ES pattern to a single fusion pattern.



**Abnormal Hybridization:** LSI BCR/ABL ES Dual Color Translocation  
Probe hybridized to a nucleus containing the t(9;22) showing one green (native BCR), one large orange (native ABL), one smaller orange (ES) and one fused orange/green (2O1G1F) signal pattern.

Chronic Myelogenous Leukemia (CML)

Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	20 µL	08L10-001	00884999031166
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	50 µL	08L10-002	00884999031173

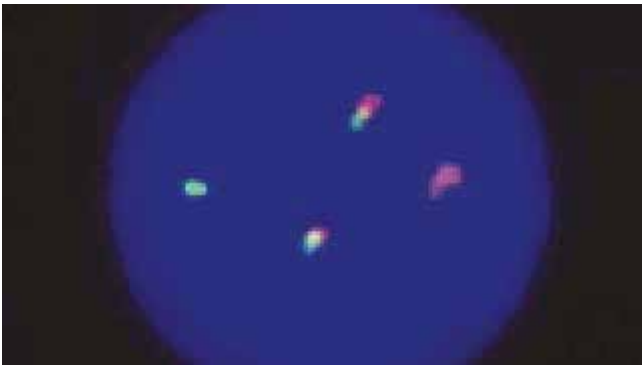
## PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect the t(9;22)(q34;q11.2) and complex or masked variants of t(9;22) that result in the BCR/ABL gene fusion. The probe may be used with metaphase chromosomes or interphase nuclei.

The approximately 671 kb SpectrumOrange ABL probe extends from a point centromeric of the arginosuccinate synthase gene (ASS1) to telomeric of the ABL1 gene on chromosome 9. The SpectrumGreen BCR probe spans a genomic distance of approximately 1.5 Mb. It begins within the variable segments of the IGL locus on chromosome 22 and ends at a point about 900 kb telomeric to the BCR gene. A 326 kb region immediately telomeric of the BCR gene is not present in the probe. Both BCR and ABL1 probes span the typical t(9;22) chromosomal breakpoints for their respective genes.

## RESULTS OF HYBRIDIZATION

A nucleus lacking the t(9;22) translocation will exhibit the two orange, two green (2O2G) signal pattern. In a nucleus containing a simple balanced t(9;22), one orange and one green signal from the normal 9 and 22 chromosomes and two orange/green (yellow) fusion signals, one each from the derivative 9 and 22 chromosomes, will be observed (1O1G2F). In some instances, deletions may occur 3' of the BCR breakpoint and/or 5' of the ABL breakpoint resulting in either an ES (extra orange or green) signal pattern or a single fusion pattern.



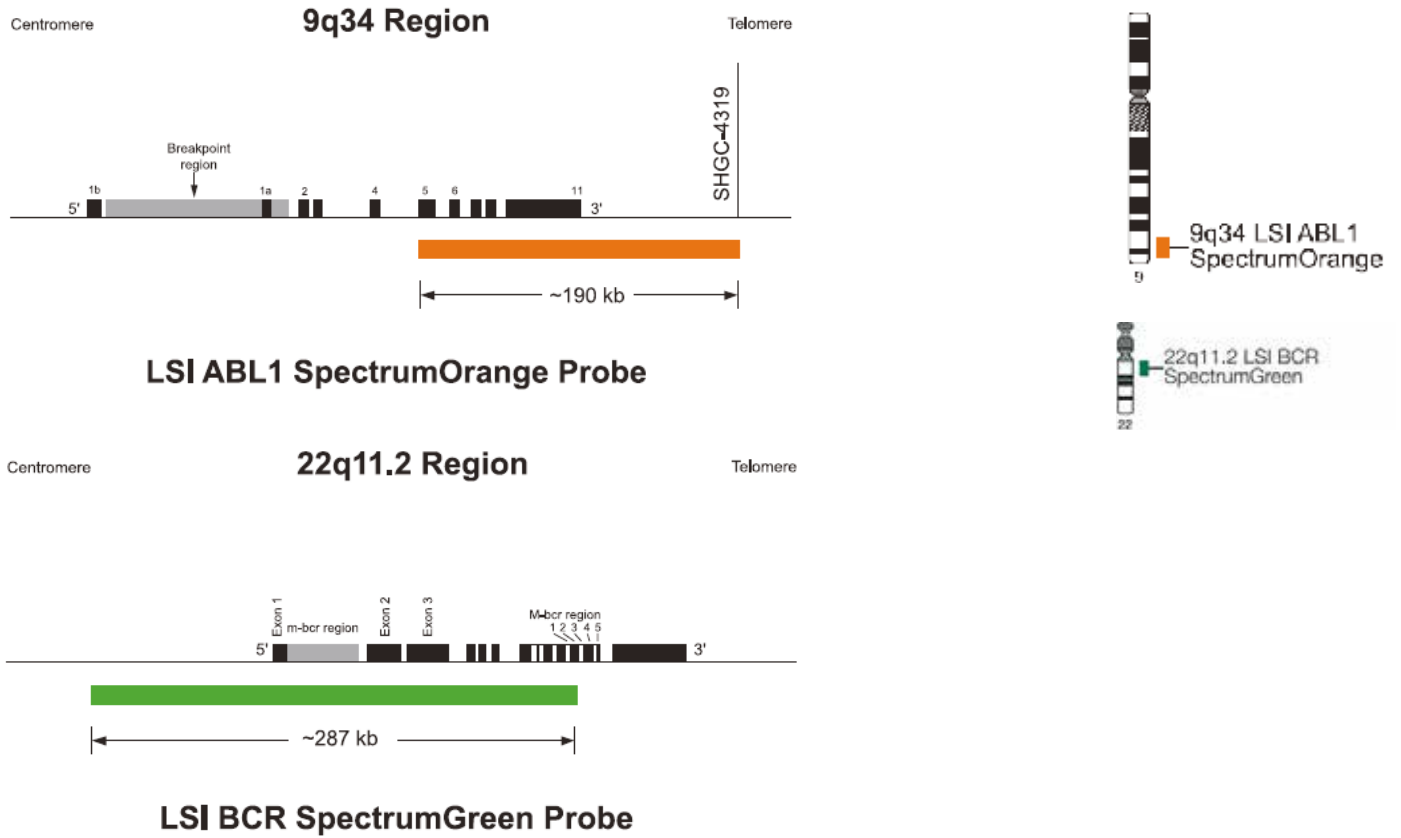
### **Abnormal Hybridization:** LSI BCR/ABL Dual Color, Dual Fusion

Translocation Probe hybridized to a nucleus containing a simple balanced t(9;22). One orange, one green and two orange/green fusion signals are observed (1O1G2F).



Chronic Myelogenous Leukemia (CML)

Vysis LSI BCR/ABL Dual Color, Single Fusion Translocation FISH Probe Kit



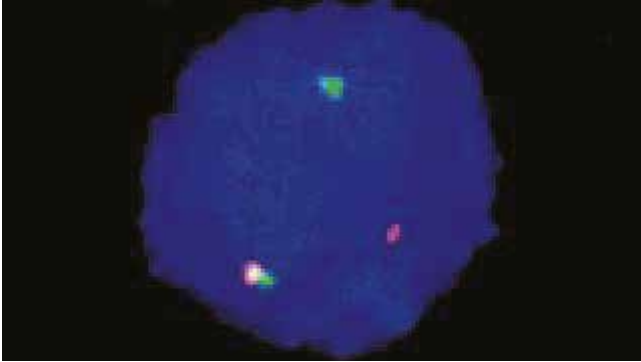
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR, ABL Dual Color, Single Fusion Translocation Probe Kit (CE)	20 µL	08L56-050	00884999031463

PRODUCT DESCRIPTION

The LSI BCR/ABL Dual Color, Single Fusion Translocation Probe is intended to identify the BCR/ABL gene fusion resulting from the t(9;22)(q34;q11.2) or other chromosomal rearrangements. The probe may be used with metaphase chromosomes or interphase nuclei. The SpectrumOrange ABL1 probe extends from a point between ABL1 exons 4 and 5 and extends for approximately 190 kb toward the 9q telomere. This probe target flanks the expected chromosome 9 breakpoint in t(9;22)(q34;q11.2). The SpectrumGreen BCR probe begins between BCR exons 13 and 14 (major breakpoint cluster region [M-bcr] exons 3 and 4) and extends toward the chromosome 22 centromere for approximately 287 kb. The BCR probe flanks the expected M-bcr breakpoints, but spans the minor breakpoint cluster region (m-bcr) for t(9;22)(q34;q11.2).

## RESULTS OF HYBRIDIZATION

A nucleus lacking the t(9;22) will exhibit the two orange, two green (2O2G) signal pattern. In a cell harboring the t(9;22), one orange, one green, and one orange/green (yellow) fusion signal pattern (1O1G1F) will be observed. This simple probe design detects the 5' BCR/3' ABL gene fusion and is useful for detecting samples with a high percentage of cells possessing this translocation.

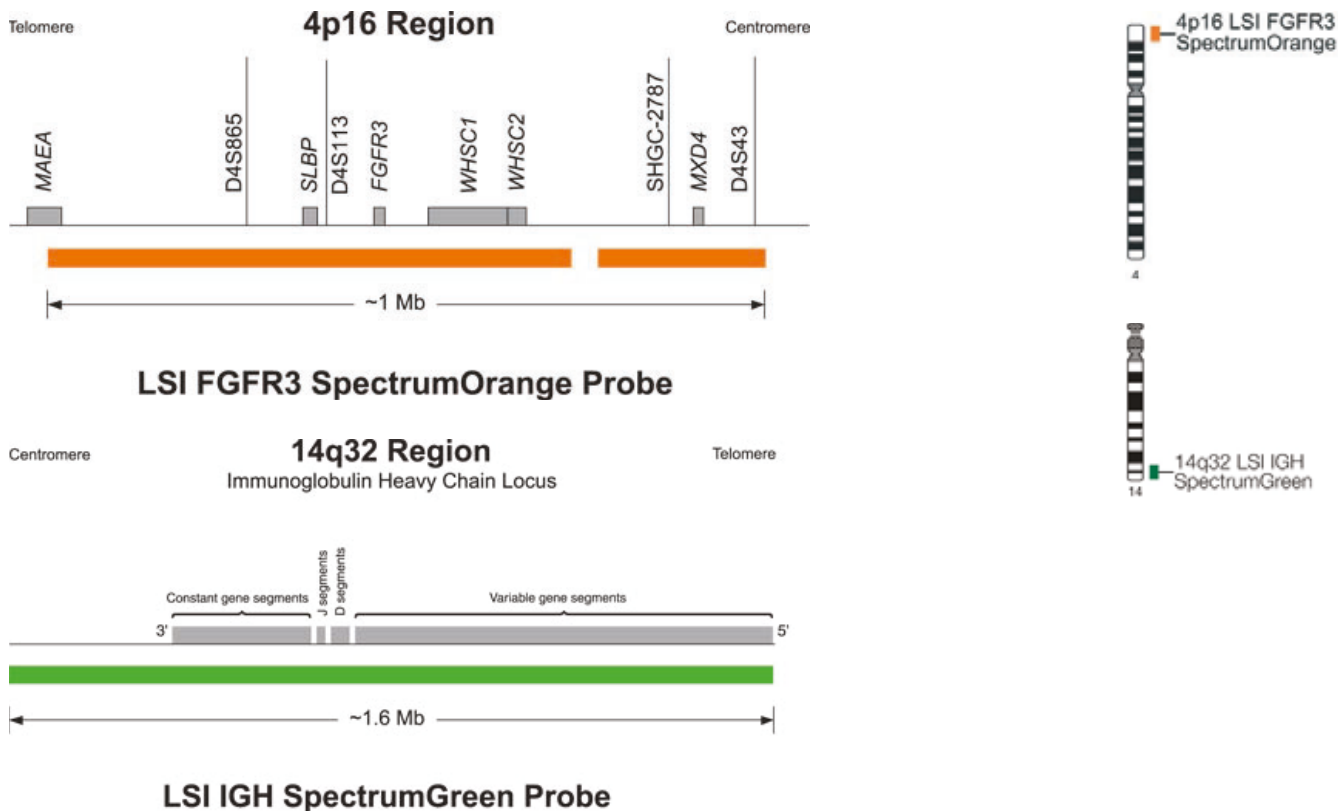


**Normal Hybridization:** LSI BCR/ABL Dual Color, Single Fusion

Translocation Probe hybridized to a nucleus containing the t(9;22). One orange, one green and one fusion (1O1G1F) signal pattern is observed.

Multiple Myeloma

Vysis LSI IGH/FGFR3 DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis IGH/FGFR3 DF FISH Probe Kit (CE)	20 µL	01N69-020	00884999000834

PRODUCT DESCRIPTION

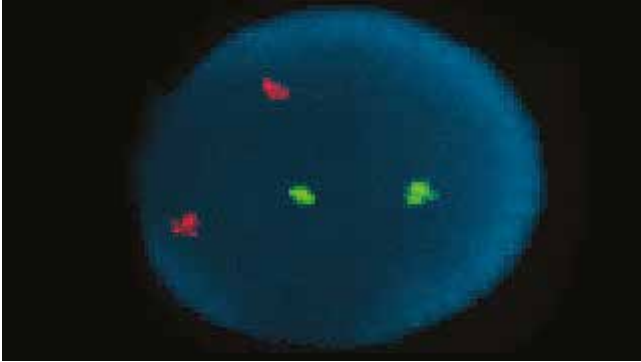
The Vysis IGH/FGFR3 DF FISH Probe Kit is intended to detect the t(4;14) (p16;q32) reciprocal translocation involving the FGFR3 and IGH gene regions.

The t(4;14)(p16;q32) is a common translocation in multiple myeloma (MM), but often missed by cytogenetics due to the telomeric chromosomal location of the regions involved in the translocation. The IFM99 trial demonstrates that the t(4;14) negatively impacted both event-free survival and overall survival in newly diagnosed symptomatic myeloma patients. FISH testing for t(4;14) (p16;q32) has been indicated as one of the minimum clinical tests during MM diagnosis and treatment determination.

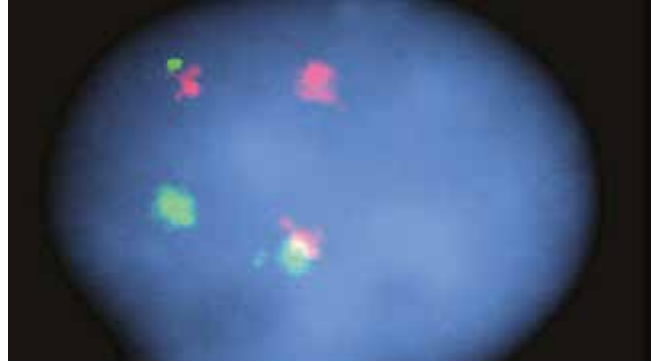
The SpectrumOrange probe is composed of 2 segments that span approximately 1 Mb (chr4:1300606- 2321488; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) with an approximately 39 kb gap (chr4:2043467-2082355; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The approximately 1.6 Mb SpectrumGreen probe spans the IGH region. (chr14:104736507-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

## RESULTS OF HYBRIDIZATION

In a normal cell that lacks the t(4;14), a two orange and two green signal pattern will be observed reflecting the two intact copies of the FGFR3 and IGH regions respectively. In an abnormal cell containing the t(4;14), one orange (FGFR3), one green (IGH), and two fusion signal pattern (der (4) and der (14)) may be observed. Some samples containing the t(4;14) may display signal patterns differently than one orange, one green, and two fusions.



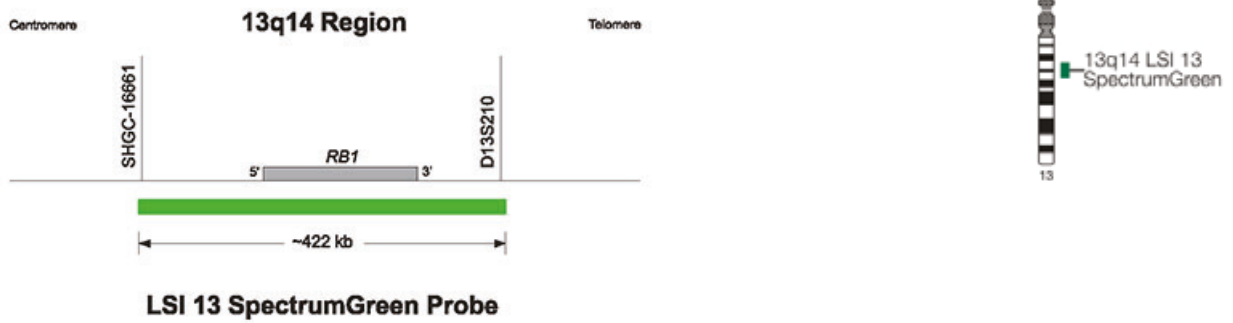
**Normal Hybridization:** An interphase cell hybridized with the LSI IGH/FGFR3 Dual Color Dual Fusion Probe. The cell shows the two orange (FGFR3), two green (IGH) signal pattern.



**Abnormal Hybridization:** An interphase cell hybridized with the LSI IGH/FGFR3 Dual Color, Dual Fusion Probe. The cell in this image shows the one orange (FGFR3), one green (IGH), two fusion (der (4) and der (14)) signal pattern.

Multiple Myeloma

Vysis LSI 13 (13q14) SpectrumGreen Probe

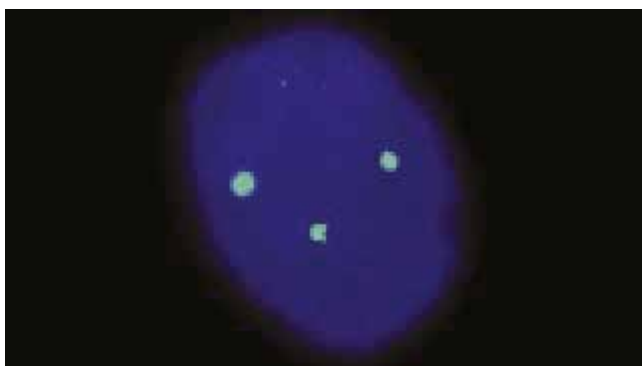


PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 (13q14) SpectrumGreen Probe (CE)	20 µL	08L67-020	00884999031579

PRODUCT DESCRIPTION

The Vysis LSI 13 (13q14) SpectrumGreen Probe is intended to detect changes (gains/losses) in the copy number of the LSI 13 probe target sequence on 13q14. The approximately 422 kb SpectrumGreen LSI 13 probe contains the complete RB1 gene and is located at 13q14.

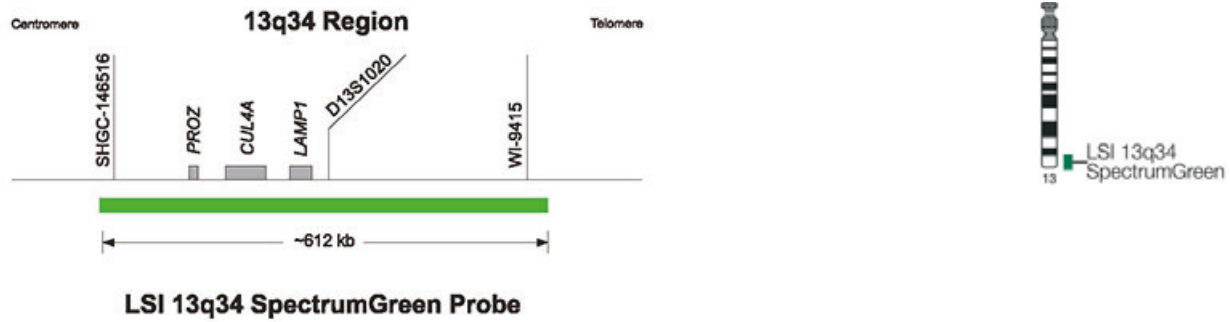
RESULTS OF HYBRIDIZATION



**Abnormal Hybridization:** LSI 13 (13q14) SpectrumGreen hybridized to an amniocyte. Three green signals indicate three copies of chromosome 13.

Multiple Myeloma

Vysis LSI 13q34 SpectrumGreen FISH Probe Kit



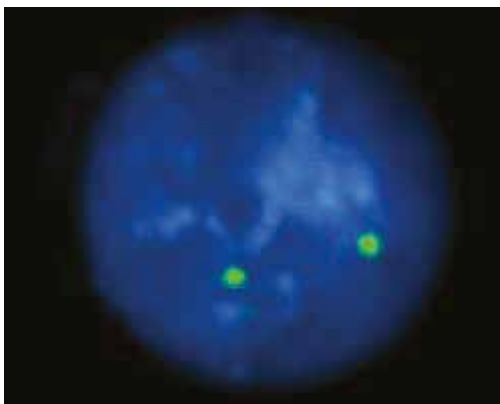
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13q34 SpectrumGreen FISH Probe Kit (CE)	20 µL	05N34-020	00884999014879

PRODUCT DESCRIPTION

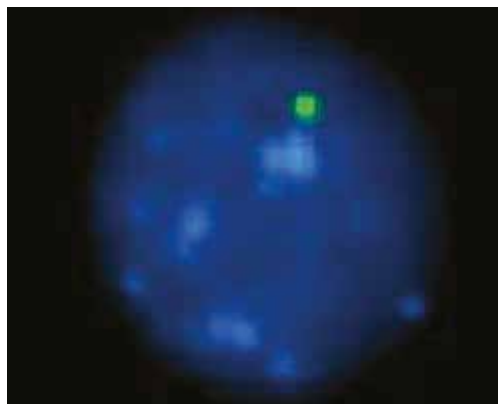
This fluorescence in situ hybridization (FISH) probe is intended to detect the copy number of the LSI 13q34 probe target located at chromosome 13q34. The approximately 612 kb SpectrumGreen probe contains the complete Lysosomal-associate Membrane Protein (LAMP1) gene and is located at chromosome 13q34 (chr13:112739323-113351436; March 2006 UCSC Genome Browser <http://genome.ucsc.edu/>).

RESULTS OF HYBRIDIZATION

In an abnormal cell that has lost the 13q34 region of chromosome 13, fewer than two green signals will be observed. In a normal cell with two intact copies of chromosome 13, two green signals will be observed.



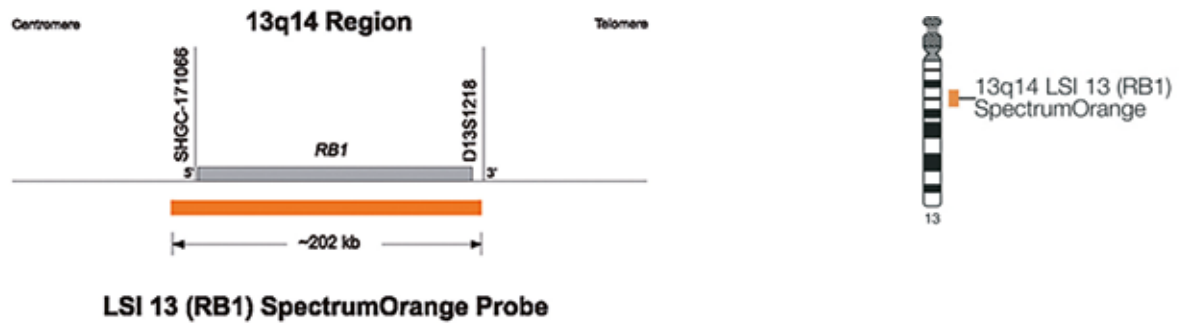
**Normal Hybridization:** Result of the hybridization of the LSI 13q34 Probe as observed in a normal interphase cell.



**Abnormal Hybridization:** Abnormal cell hybridized with the LSI 13q34 Probe. The cell in this image shows deletion of one copy of the 13q34 region of chromosome 13 as indicated by the single green signal.

Multiple Myeloma

Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555

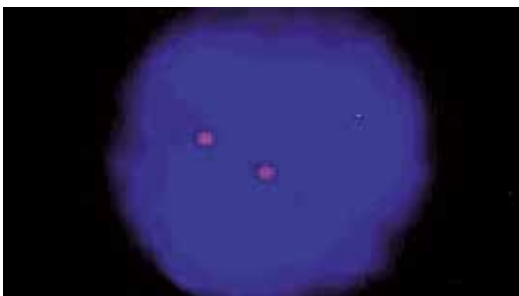
PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect the deletion of the LSI RB1 probe target sequence containing the RB1 gene at chromosomal location 13q14.

The approximately 202 kb SpectrumOrange LSI RB1 probe contains the complete RB1 gene and is located at 13q14.

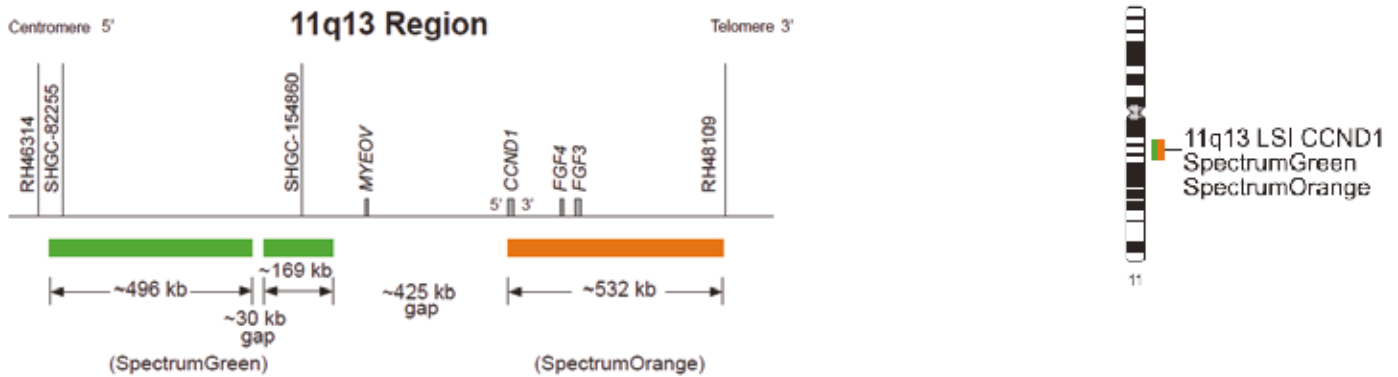
RESULTS OF HYBRIDIZATION

In a normal cell, the expected result for a nucleus hybridized with the LSI 13 (RB1) probe is a two orange (2O) signal pattern. In a hybridized abnormal cell containing the deletion, a one orange (1O) signal pattern will be observed.



Multiple Myeloma

Vysis LSI CCND1, Break Apart Rearrangement FISH Probe Kit (CE)



**LSI CCND1 Dual Color,  
Break Apart Rearrangement Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CCND1 Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N38-020	00884999014909

**PRODUCT DESCRIPTION**

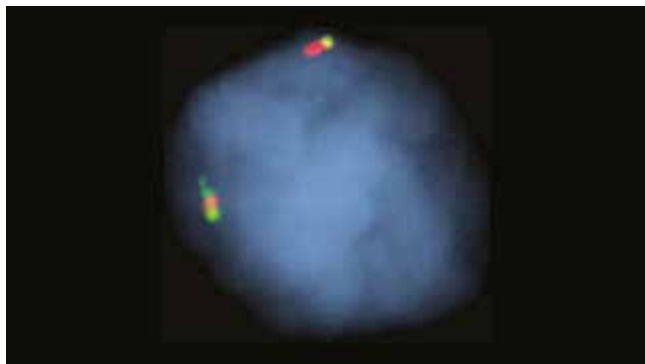
The Vysis CCND1 Dual Color Break Apart Rearrangement FISH probe is intended to detect chromosomal rearrangements involving the Cyclin D1 (CCND1) gene region at chromosome 11q13.

The SpectrumGreen probe is located centromeric to CCND1 and spans approximately 695 kb (chr11:68042961-68737635; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) with an approximately 30 kb gap (chr11:68539031-68568615; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The SpectrumOrange probe spans approximately 532 kb (chr11:69162485-69694376; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers CCND1.

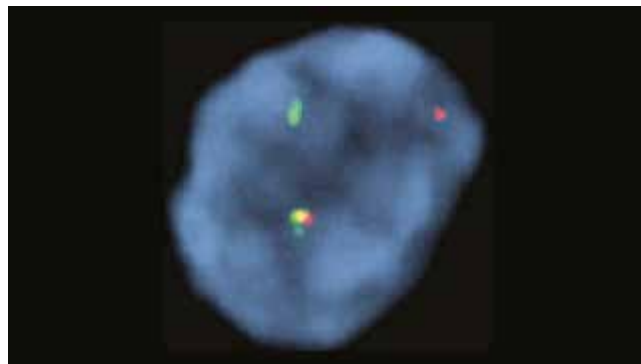


## RESULTS OF HYBRIDIZATION

The anticipated signal pattern in abnormal cells having a chromosomal breakpoint within the gap between the two probe targets on one chromosome 11 is one orange, one green, and one fusion signal. Other patterns may be observed if additional genetic alterations are present. Hybridization of this probe to interphase nuclei of normal cells is expected to produce two pair of overlapping, or nearly overlapping, orange and green (yellow fusion) signals.



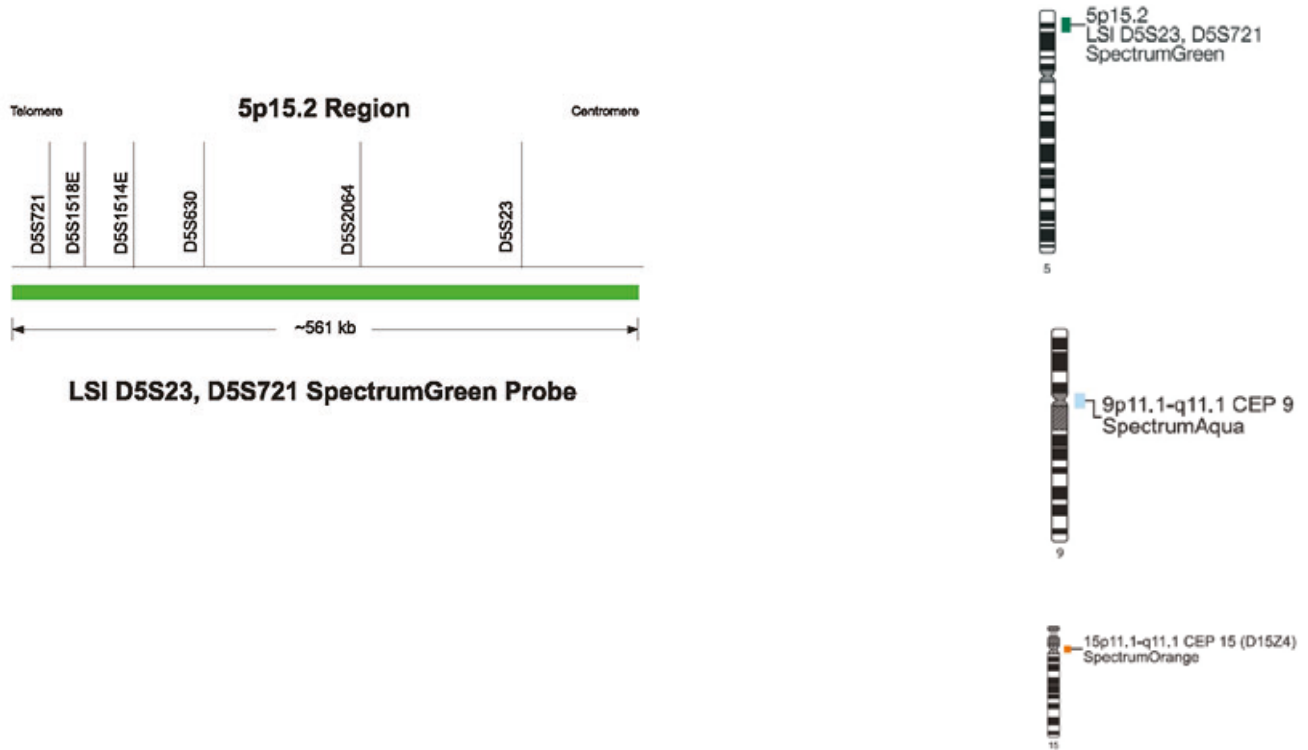
**Normal Hybridization:** Normal cell hybridization using the LSI CCND1 (11q13) Dual Color Break Apart Rearrangement Probe.



**Abnormal Hybridization:** Abnormal cell hybridization using the LSI CCND1 (11q13) Dual Color Break Apart Rearrangement Probe.

Multiple Myeloma

Vysis LSI D5S23, D5S721 / CEP 9 / CEP 15 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D5S23, D5S721/CEP 9/CEP 15 FISH Probe Kit (CE)	20 µL	05N35-020	00884999014886

PRODUCT DESCRIPTION

The Vysis D5S23, D5S721/CEP 9/CEP 15 FISH Probe Kit is intended to detect the copy number of the D5S23, D5S721, CEP 9 and CEP 15 probe targets located at 5p15.2, 9p11.1-q11.1 and 15p11.1-q11.1, respectively, using the fluorescence in situ hybridization (FISH) technique.

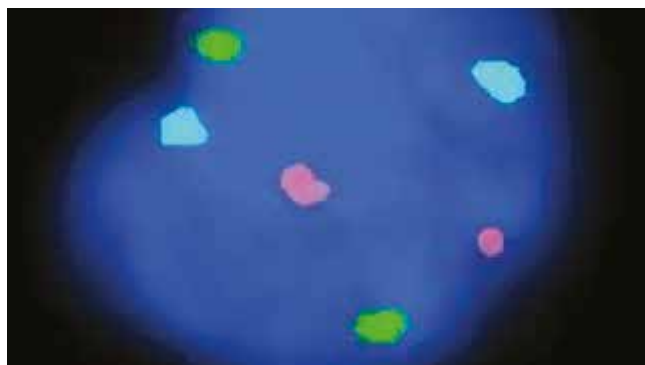
The approximately 561 kb (chr5:9450109-10011407; March 2006 UCSC genome browser <http://genome.ucsc.edu/>) SpectrumGreen probe is located at chromosome 5p15.2

The SpectrumAqua probe contains alpha satellite sequences and is specific to chromosome 9p11.1-q11.1. The SpectrumOrange probe contains D15Z4 alpha satellite sequences and is specific to chromosome 15p11.1-q11.1.

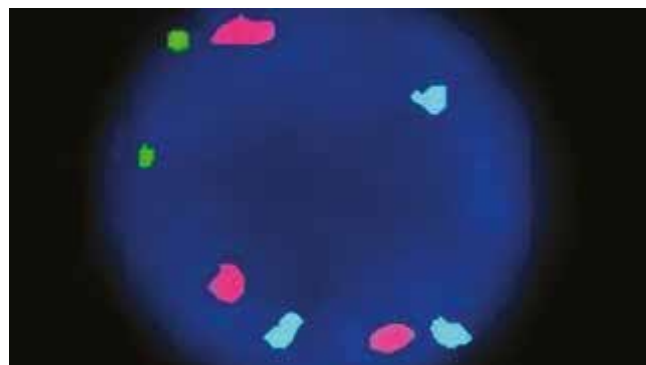
## RESULTS OF HYBRIDIZATION

In an abnormal cell containing hyperdiploidy of either chromosome 5, chromosome 9 or chromosome 15, greater than two signals will be observed for the respective chromosomes.

In a normal cell that lacks hyperdiploidy of chromosome 5, chromosome 9 and chromosome 15, a two green, two aqua and two orange signal pattern will be observed reflecting the two copies of each chromosome.



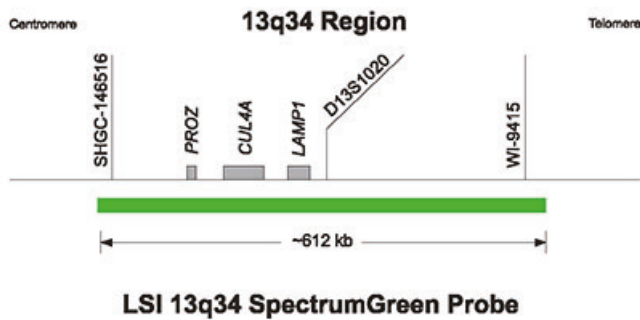
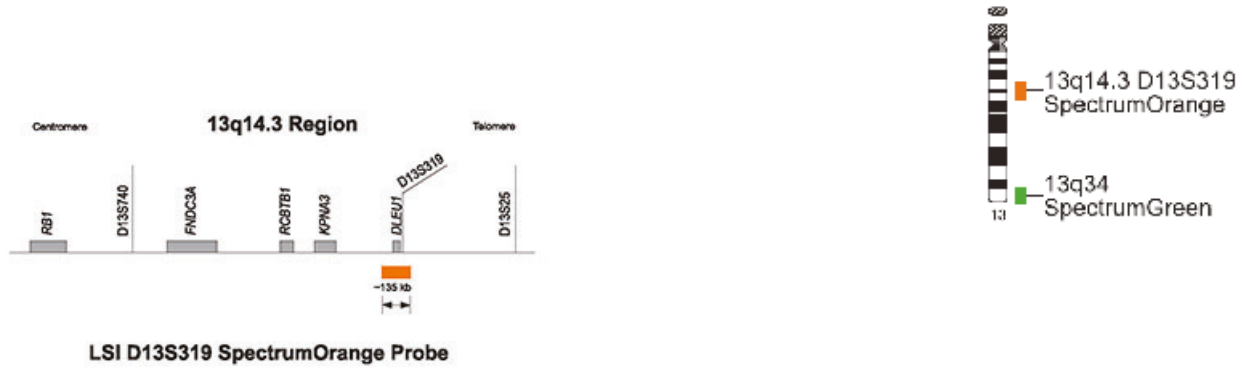
**Normal Hybridization:** An interphase cell hybridized with the LSI D5S23, D5S721/ CEP 9/CEP 15 Probe. The cell shows the two green (LSI D5S23, D5S721), two aqua (CEP 9) and two orange (CEP 15) signal patterns.



**Abnormal Hybridization:** An interphase cell hybridized with the LSI D5S23, D5S721/ CEP 9/CEP 15 Probe. The cell in this image shows a two green (LSI D5S23, D5S721), three aqua (CEP 9) and three orange (CEP 15) signal patterns.

Multiple Myeloma

Vysis LSI D13S319 / 13q34 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D13s319/13q34 FISH Probe Kit (CE)	20 µL	05N37-020	00884999014893

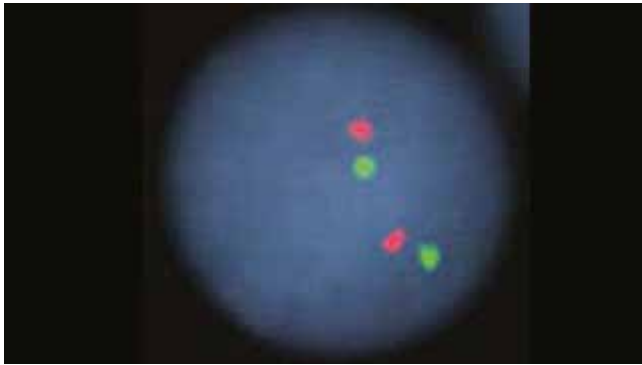
**PRODUCT DESCRIPTION**

Vysis LSI D13S319/LSI13q34 FISH Probe Kit is intended to detect the copy number of the LSI D13S319 probe target located at chromosome 13q14 and the copy number of the LSI13q34 probe target located at chromosome 13q34.

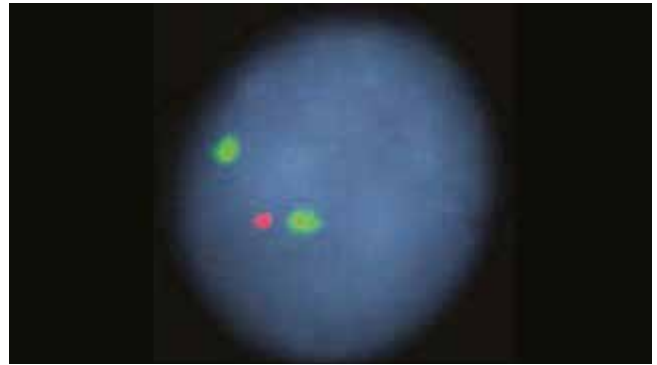
The approximately 135 kb SpectrumOrange D13S319 probe contains the D13S319 marker and is located at chromosome 13q14 (chr13:49500369-49635302; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

The approximately 612 kb SpectrumGreen 13q34 probe contains the complete LAMP1 gene and is located at chromosome 13q34 (chr13:112739323-113351436 March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

RESULTS OF HYBRIDIZATION



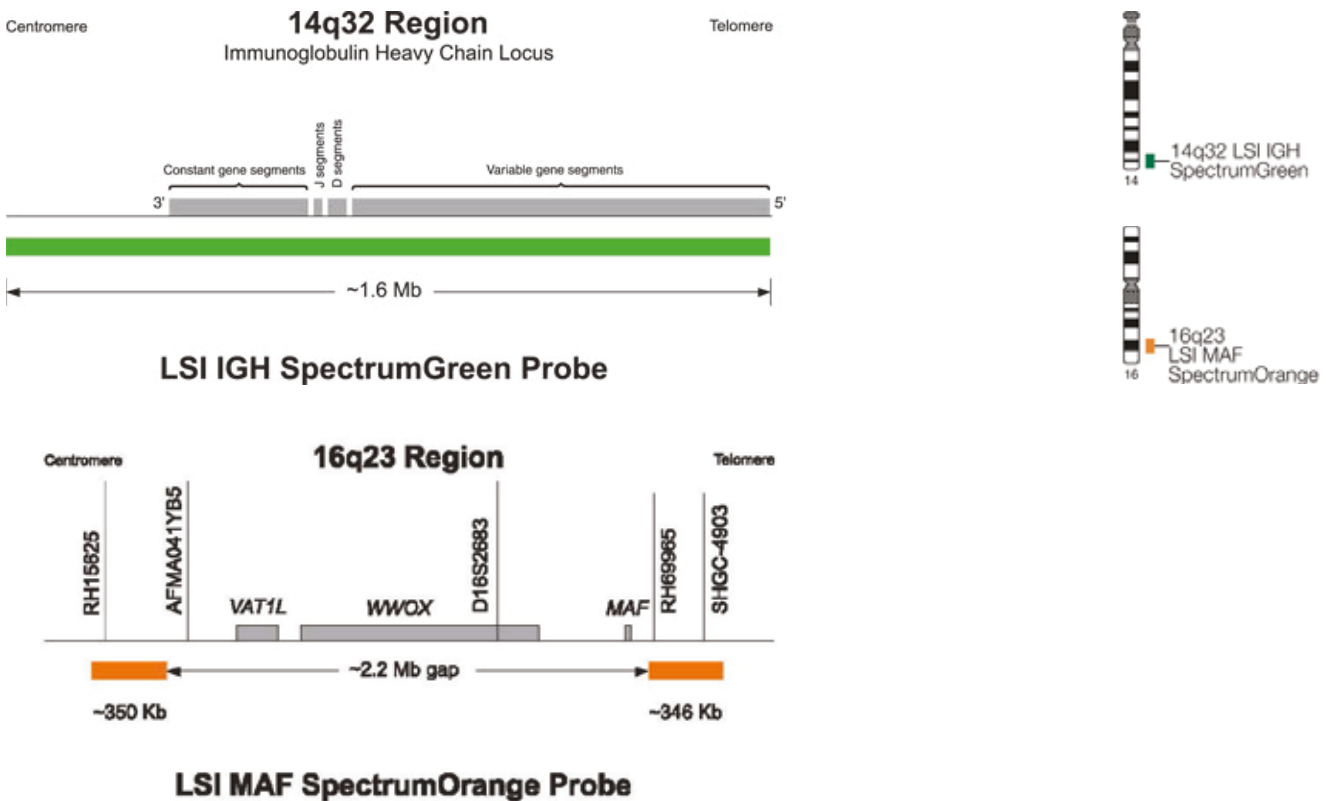
**Normal Hybridization:** Nucleus showing the two green and two orange signals.



**Abnormal Hybridization:** Nucleus showing the two green and one orange signal.

Multiple Myeloma

Vysis LSI IGH/MAF DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MAF DF FISH Probe Kit (CE)	20 µL	05N32-020	00884999014855

PRODUCT DESCRIPTION

The Vysis IGH/MAF DF FISH Probe Kit is intended to detect the t(14;16)(q32;q23) reciprocal translocation involving the IGH and MAF gene regions.

The SpectrumOrange probe flanks the MAF gene region and is composed of 2 segments that are each approximately 350 kb with an approximately 2.2 Mb gap. The centromeric segment is located at chr16:75729985-76079705 (March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and the telomeric segment is located at chr16:78290003-78635873 (March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The approximately 1.6 Mb SpectrumGreen probe spans the IGH region (chr14:104736507-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

## RESULTS OF HYBRIDIZATION

In an abnormal cell containing the t(14;16), one green (IGH), one orange (MAF) and two fusion signal pattern (der (14) and der (16)) may be observed. Some samples containing the t(14;16) may display signal patterns different than one orange, one green and two fusions.

In a normal cell that lacks the t(14;16), a two green and two orange signal pattern will be observed reflecting the two intact copies of IGH and the MAF region respectively. Due to the presence of the ~2.2 Mb gap between the two SpectrumOrange labeled MAF probes, signal splitting of the orange probe may be observed in both normal and abnormal cells.



**Normal Hybridization:** An interphase cell hybridized with the LSI IGH/MAF Dual Color, Dual Fusion Translocation Probe. The cell shows the two green (IGH), two orange (MAF) signal pattern.



**Abnormal Hybridization:** An abnormal interphase cell hybridized with the Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes. The cell in this image shows the one orange (CCND1/MYEOV), one green (IGH), two fusion (der (11) and der (14)) signal pattern indicative of a t(11;14).

Multiple Myeloma

Vysis LSI TP53 / CEP 17 FISH Probe Kit



**LSI TP53 SpectrumOrange Probe**

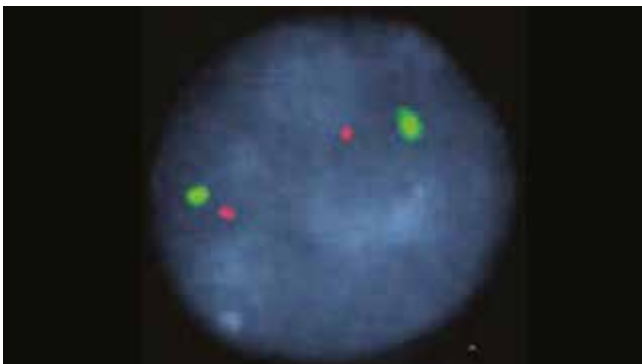
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TP53/CEP 17 FISH Probe Kit (CE)	20 µL	05N56-020	00884999015050

**PRODUCT DESCRIPTION**

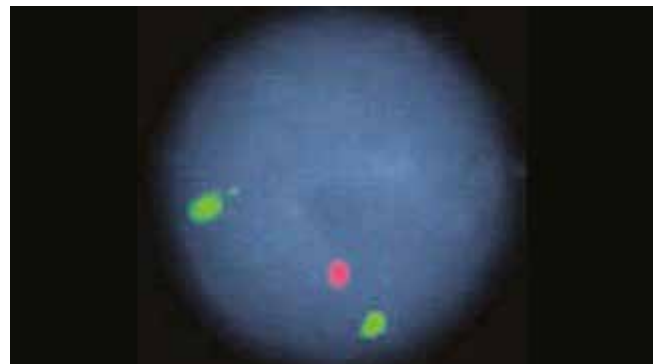
The Vysis TP53/CEP 17 FISH Probe Kit is intended to detect the copy number of the LSI TP53 probe target located at chromosome 17p13.1 and of the CEP 17 probe target located at the centromere of chromosome 17.

The approximately 172 kb SpectrumOrange TP53 probe contains the complete TP53 gene and is located at chromosome 17p13.1 (chr17:7435119-7606823; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The SpectrumGreen CEP 17 probe is a control probe which hybridizes to the centromere region of chromosome 17p11.1-q11.1.

**RESULTS OF HYBRIDIZATION**



**Normal Hybridization:** Nucleus showing the two green and two orange signals.

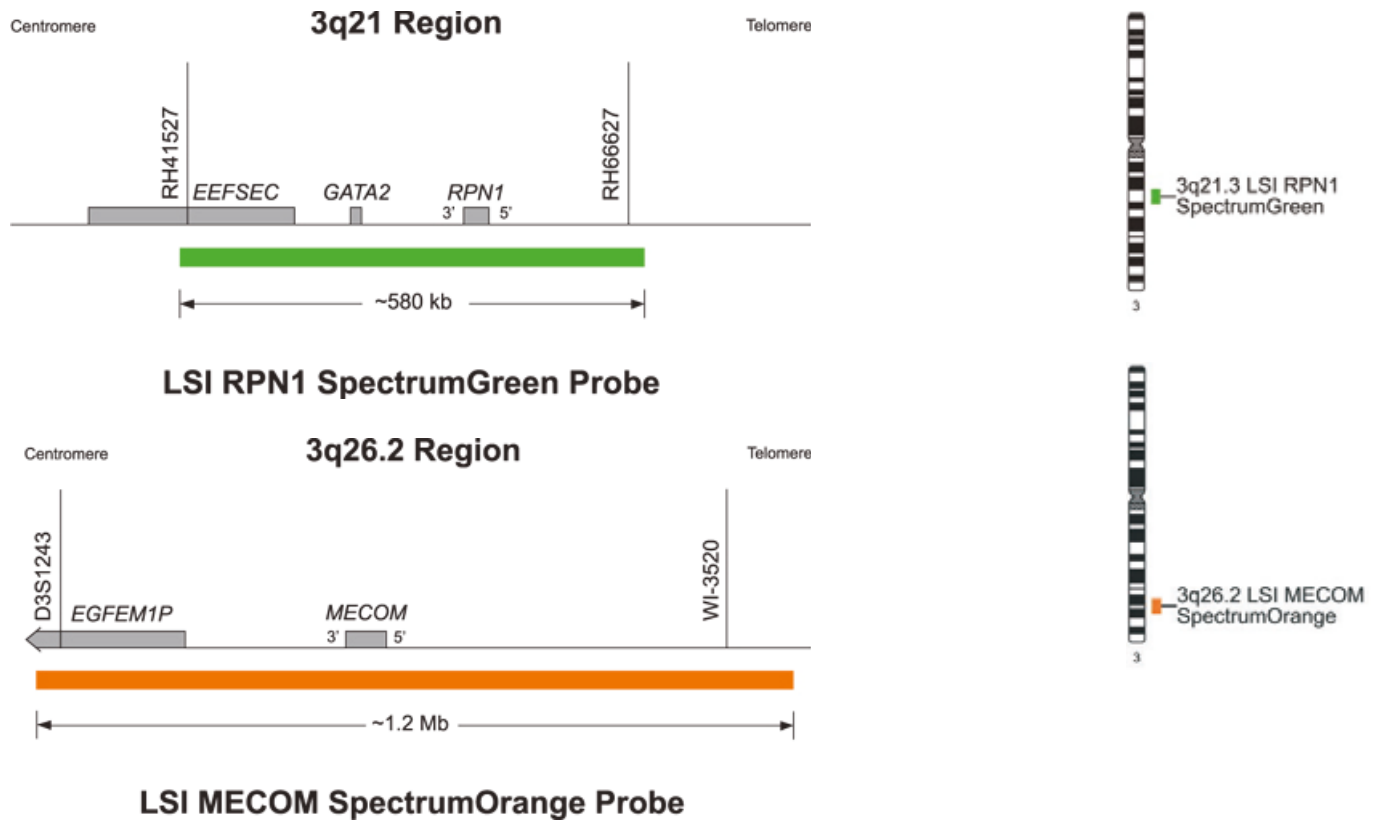


**Abnormal Hybridization:** Nucleus showing the two green and one orange signals.



Myelodysplastic Syndrome

Vysis LSI RPN1 / MECOM DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RPN1/MECOM DF FISH Probe Kit (CE)	10 µL	06N60-010	00884999034914

PRODUCT DESCRIPTION

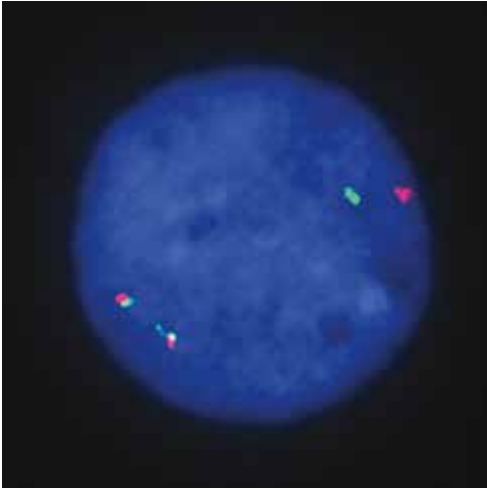
The Vysis RPN1/MECOM DF FISH Probe Kit is intended to detect a fusion between the ribophorin I gene (RPN1) and the MDS1 and EVI1 complex locus gene (MECOM) using the fluorescence in situ hybridization (FISH) technique.

The approximately 580 kb (Chr3:129466532-130046908, March 2006 Assembly UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen LSI RPN1 probe spans the RPN1 gene area on chromosome 3q21.3. The approximately 1.2 Mb (chr3:169797344- 170950559, March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI MECOM probe encompasses the entire MECOM (MDS1 and EVI1 complex) locus on chromosome 3q26.2.

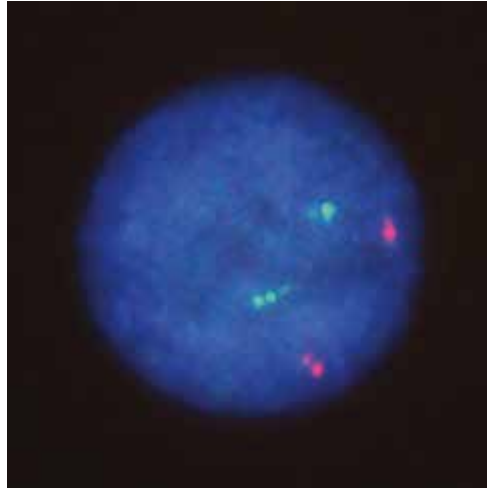
## RESULTS OF HYBRIDIZATION

The most frequently expected signal pattern of the Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes in abnormal specimens is 1 orange, 1 green, and 2 orange/green fusion signals. Other signal patterns may occur in abnormal specimens, and metaphase analysis may be helpful in characterization of such patterns.

The most commonly expected signal pattern of the Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes in normal specimens is 2 orange and 2 green signals. Due to the proximity of the 2 probes on the q arm of chromosome 3, however, the orange and green signals may sometimes appear as a fusion in a normal nucleus. This effect can produce a pattern of 1 orange, 1 green, and 1 orange/green fusion signal or, more rarely, 2 orange/green fusion signals.



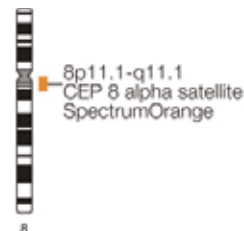
**Abnormal Hybridization:** Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes hybridized to a nucleus containing a simple balanced  $t(3;3)(q21.3;q26.2)$ . One orange, one green and two orange/green fusion signals are observed.



**Normal Hybridization:** Vysis LSI RPN1/MECOM Dual Color Dual Fusion Probes hybridized to a nucleus containing non-rearranged RPN1 and MECOM regions. Two orange and two green signals are observed.

## Myelodysplastic Syndrome

## Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit <b>(CE)</b>	20 Assays	07J22-008	00884999027077
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) <b>(CE)</b>	20 Assays	07J20-008	00884999027008
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-001	00884999027039
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 <b>(CE)</b>	5 Slides	07J21-002	00884999027046

### PRODUCT DESCRIPTION

CEP 8 is a SpectrumOrange labeled probe specific for the alpha satellite (centromeric) region, 8p11.1-q11.1.

The CEP 8 DNA Probe Kit which is available for in vitro diagnostic use and may be used as an adjunct to standard karyotyping to identify and enumerate chromosome 8 in cells obtained from bone marrow. In multi-site clinical trials, the CEP 8 DNA Probe Kit for interphase analysis was 96% sensitive and 98% specific as compared to traditional cytogenetic analysis. A close association has been made between trisomy 8 and both myeloid blast crisis and basophilia. Trisomy 8 is a prevalent genetic aberration in several specific diseases:

- Chronic Myelogenous Leukemia (CML)
- Acute Myeloid Leukemia (AML)
- Myeloproliferative disorders (MPD)
- Myelodysplastic Syndrome (MDS)
- Other hematologic disorders not specified (HDNOS)

### CEP 8 SpectrumOrange DNA Probe Kit Content

Components of the CEP 8 SpectrumOrange DNA Probe Kit include:

- CEP 8 SpectrumOrange alpha satellite DNA for centromere region 8p11.1-q11.1 predenatured in hybridization buffer (220 µL)
- NP-40 (detergent for wash solution: 1000 µL)
- DAPI II counterstain (300 µL)
- 20X SSC (66 g)

**Intended Use**

The CEP 8 SpectrumOrange DNA Probe Kit is intended to detect AT rich alpha satellite sequences in the centromere region of chromosome 8 in conjunction with routine diagnostic cytogenetic testing. It is indicated for use as an adjunct to standard cytogenetic analysis for identifying and enumerating chromosome 8 via fluorescence in situ hybridization (FISH) in interphase nuclei and in metaphase spreads of cells obtained from bone marrow in patients with myeloid disorders [Chronic myelogenous leukemia (CML), Acute myeloid leukemia (AML), Myeloproliferative disorder (MPD), Myelodysplastic syndrome (MDS), and Hematological disorders not otherwise specified (HDNOS)]. It is not intended to be used as a stand alone assay for test reporting. It is not intended for use in long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.

**Limitations**

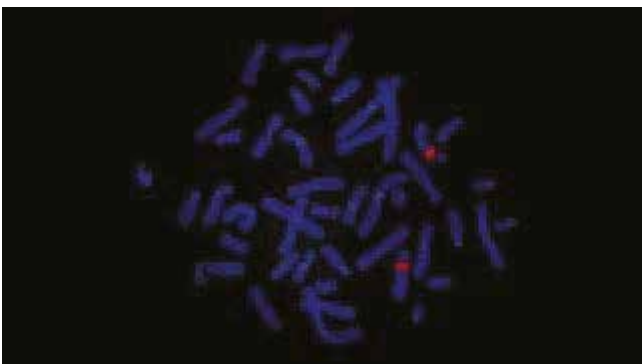
- The CEP 8 SpectrumOrange DNA Probe Kit has been characterized only for identifying chromosomes in nuclear preparations or metaphase spreads from bone marrow specimens.
- The clinical interpretation of any test results should be done in conjunction with standard cytogenetic analysis and should be evaluated within the context of the patient's medical history and other diagnostic laboratory test results.
- Clinical specimens with >2.2% tri-sigaled nuclei are considered to have an abnormal trisomy 8 clone. Those with  $\leq 2.2\%$  tri-sigaled nuclei should be considered normal, although the presence of trisomy 8 is not completely excluded.
- The CEP 8 SpectrumOrange DNA Probe Kit is not intended for long term cell cultured materials such as amniocytes, fibroblasts and tumor cells.
- FISH assay results may not be informative if the specimen quality and/or specimen slide preparation is inadequate.
- If significant peripheral blood contamination is present in the bone marrow specimen, the blood may dilute the specimen; it is important to recognize the potential effects this dilution effect may have on the FISH assay results.
- It is possible that patients may have chromosome polymorphism which may hybridize with CEP 8 probe. FISH metaphase analysis should be done in addition to FISH interphase analysis. Polymorphism was not investigated in the clinical trials.
- This assay will not detect the presence of other chromosome abnormalities frequently associated with hematological disorders.
- The efficacy of this assay for monitoring of trisomy 8 or disease progression has not been demonstrated.

To learn more about Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit please visit:

<https://www.molecular.abbott/int/en/products/vysis-cep-8-dna-probe-kit>

**RESULTS OF HYBRIDIZATION**

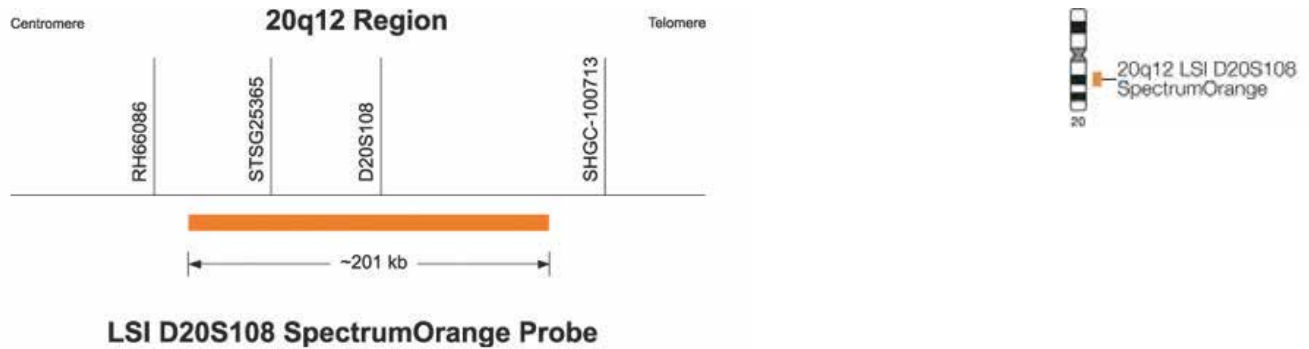
In a normal cell, the expected pattern for a nucleus hybridized with the CEP 8 probe is a two orange (2O) signal pattern. In an abnormal cell containing trisomy 8, the expected pattern will be a three orange (3O) signal pattern.



**Normal Hybridization:** CEP 8 SpectrumOrange hybridized to a normal cell showing two orange signals indicating two copies of chromosome 8.

Myelodysplastic Syndrome

Vysis D20S108 FISH Probe Kit



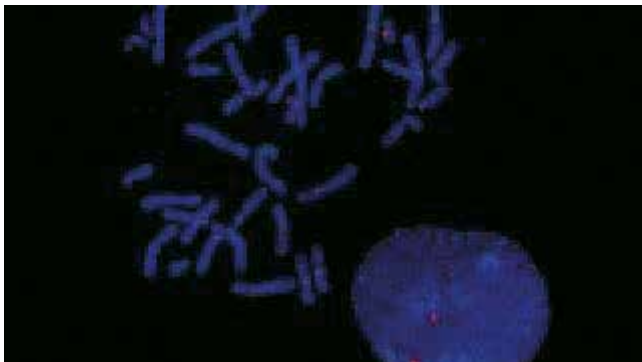
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329

**PRODUCT DESCRIPTION**

The Vysis LSI D20S108 fluorescence in situ hybridization (FISH) probe is intended to detect deletions of Vysis LSI D20S108 probe target locus on 20q12. Acquired deletions of the long arm of chromosome 20 are found in ~4% of patients with a myelodysplastic syndrome (MDS) and in 1 to 2% of patients with acute myeloid leukemia (AML) and myeloproliferative disorders (MPD). Cytogenetic analysis of del(20q) revealed that the deletion is variable in size, with a commonly deleted region (CDR) spanning 20q11.2 to q12. Within the commonly deleted segment lies the SRC oncogene and possibly other tumor suppressor genes. The CDR is defined as a 2.7 Mb segment in MPD and a 2.6 Mb segment in AML/MDS, with an overlapping region of 1.7 Mb. In a study of 36 MPD, MDS, and AML patients with del(20q), statistical analyses showed that patients with del(20q) as a sole cytogenetic aberration (favorable subgroup) live longer than patients with del(20q) and other chromosomal changes (poor prognosis subgroup). Among patients from MDS, MPD and MDS/MPD groups, Douet-Guilbert et al. (2008) identified one commonly deleted region in all 38 investigated samples using FISH, including the Vysis LSI D20S108 FISH Probe. The Vysis LSI D20S108 Probe is an approximately 201 kb SpectrumOrange labeled probe and contains the D20S108 locus located on chromosome 20q12. To learn more about Vysis D20S108 FISH Probe Kit please visit: <https://www.molecular.abbott/int/en/chromosome/20>.

**RESULTS OF HYBRIDIZATION**

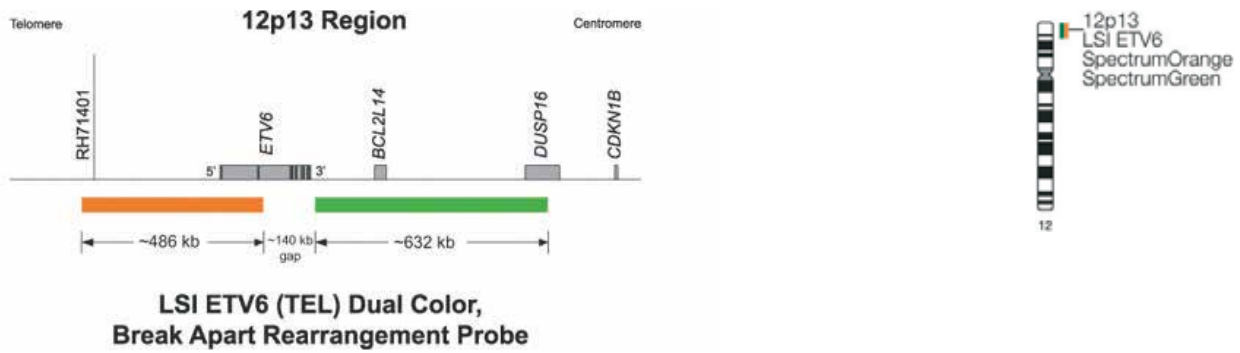
In a normal cell hybridized with the LSI D20S108 probe, the expected pattern is the two orange (2O) signal pattern. In an abnormal cell containing the deletion, the one orange (1O) signal pattern will be observed.



**Normal Hybridization:** LSI D20S108 Single Color Probe hybridized to normal cells showing the two orange (2O) signal pattern.

Myelodysplastic Syndrome

Vysis ETV6 Break Apart FISH Probe Kit



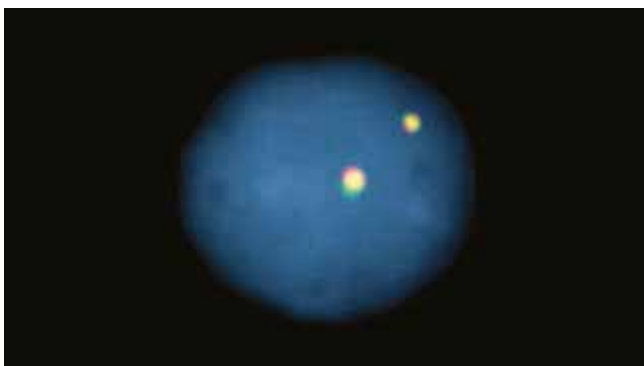
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ETV6 Break Apart FISH Probe Kit (CE)	20 µL	04N09-020	00884999007932

PRODUCT DESCRIPTION

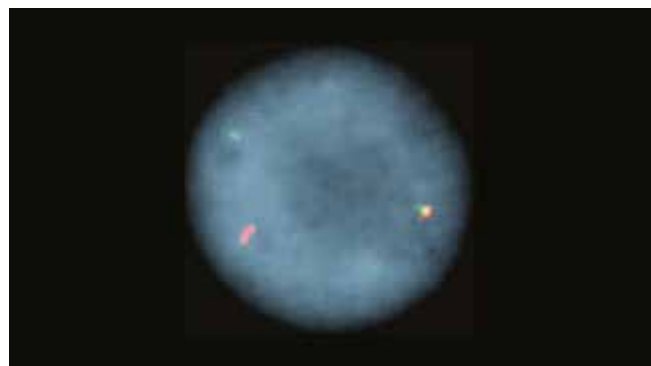
The LSI ETV6 fluorescence in situ hybridization (FISH) probe kit is intended to detect chromosomal rearrangements involving the ETV6 gene located at chromosome 12p13. The Vysis ETV6 Dual Color Break Apart Rearrangement Probe consists of a mixture of 2 FISH DNA probes. The approximately 486 kb SpectrumOrange-labeled probe lies telomeric to the ETV6 gene breakpoint region. The approximately 632 kb SpectrumGreen-labeled probe lies centromeric to the ETV6 gene breakpoint region.

RESULTS OF HYBRIDIZATION

Hybridization of this probe to interphase nuclei of normal cells is expected to produce two pair of overlapping, or nearly overlapping, orange and green (yellow fusion) signals. The anticipated signal pattern in abnormal cells having a chromosomal breakpoint within the gap between the two probe targets on one chromosome 12 is one orange, one green, and one fusion signal. Other patterns may be observed if additional genetic alterations are present.



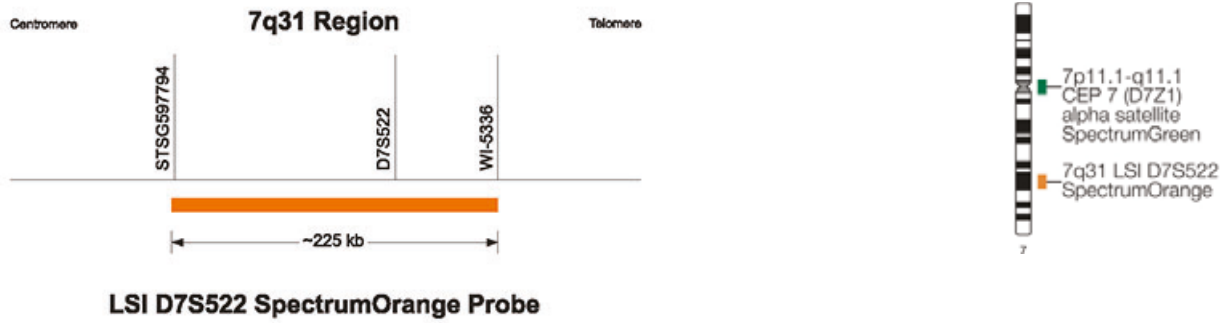
**Normal Hybridization:** Normal cell hybridization using the LSI ETV6 (TEL) (12p13) Dual Color, Break Apart Rearrangement Probe.



**Abnormal Hybridization:** Abnormal cell hybridization using the LSI ETV6 (TEL) (12p13) Dual Color, Break Apart Rearrangement Probe.

Myelodysplastic Syndrome

Vysis LSI D7S522 / CEP 7 FISH Probe Kit



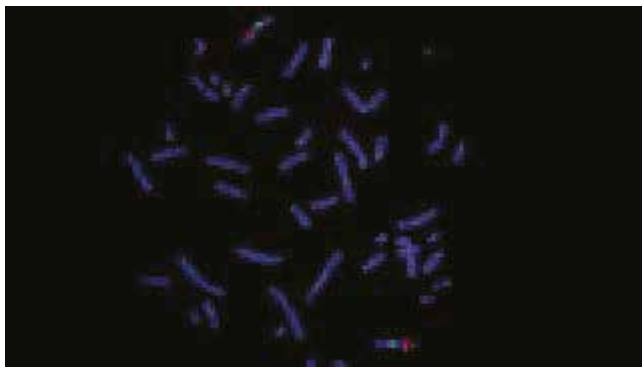
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D7S522/CEP 7 FISH Probe Kit (CE)	20 µL	05N08-020	00884999014374

PRODUCT DESCRIPTION

The Vysis D7S522/CEP7 FISH Probe Kit is intended to detect the copy number of the LSI D7S522 and CEP 7 probe targets located at chromosome 7q31 and 7p11.1-q11.1, respectively. The Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes are a mixture of a SpectrumOrange D7S522 probe (7q31) and a SpectrumGreen CEP 7 probe (7p11.1-q11.1). The LSI D7S522 probe target is approximately 224 Kb in length. The CEP 7 probe targets the D7Z1 alpha satellite sequence at the centromere of chromosome 7.

RESULTS OF HYBRIDIZATION

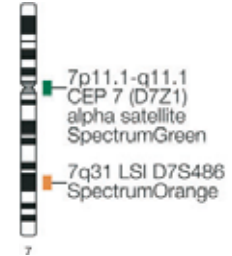
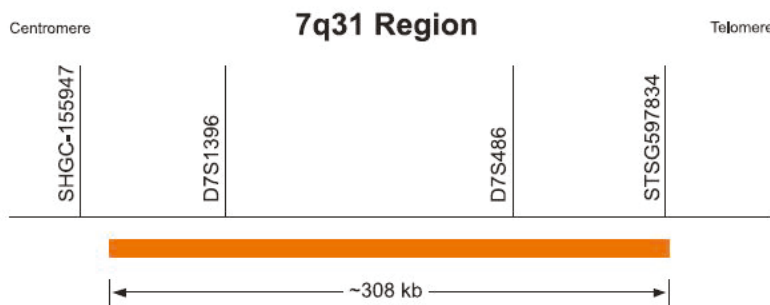
In a normal cell hybridized with the LSI D7S522/CEP 7 Probe, the expected pattern is the two orange, two green signal pattern. In an abnormal cell containing the deletion, the one orange, two green signal pattern will be observed.



**Normal Hybridization:** LSI D7S522/CEP 7 Dual Color Probe hybridized to a normal metaphase cell showing the two orange, two green signal pattern.

Myelodysplastic Syndrome

Vysis LSI D7S486 / CEP 7 FISH Probe Kit



**LSI D7S486 SpectrumOrange Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D7S486/CEP 7 FISH Probe Kit (CE)	20 µL	05N07-020	00884999014367

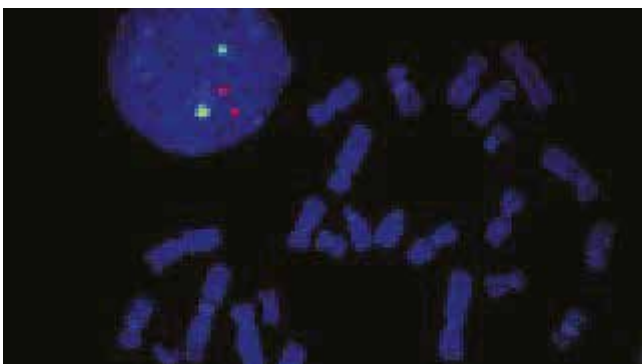
**PRODUCT DESCRIPTION**

The Vysis LSI D7S486/CEP7 FISH Probe Kit is intended to detect the copy number of the LSI D7S486 and CEP 7 probe targets located at chromosome 7q31 and 7p11.1-q11.1, respectively.

The Vysis LSI D7S486 SpectrumOrange/CEP 7 SpectrumGreen Probes are a mixture of a SpectrumOrange D7S486 probe (7q31) and a SpectrumGreen CEP 7 probe (7p11.1-q11.1). The LSI D7S486 probe target is approximately 308 kb in length (chr7:115462602-115770704; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The CEP 7 probe targets the D7Z1 alpha satellite sequence at the centromere of chromosome 7.

To learn more about Vysis LSI D7S486/CEP 7 FISH Probe Kit please visit: <https://www.molecular.abbott/int/en/products/oncology/vysis-d7s486-cep-7-fish-probe-kit>

**RESULTS OF HYBRIDIZATION**

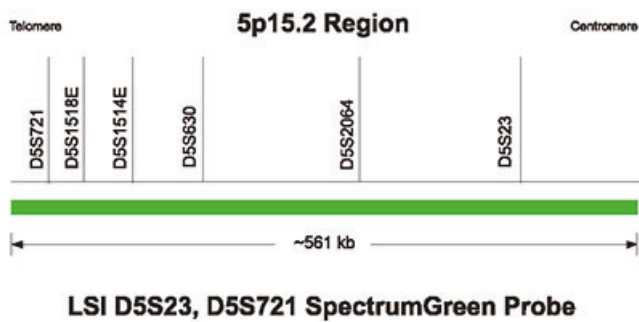
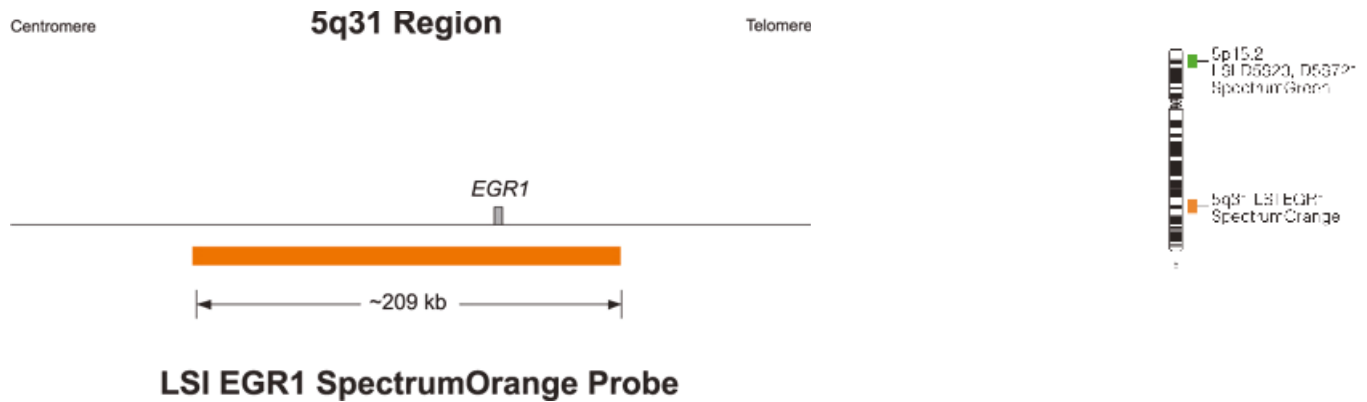


**Normal Hybridization:** LSI D7S486/CEP 7 Dual Color Probe hybridized to a nucleus showing the two orange, two green (2O2G) signal pattern.



Myelodysplastic Syndrome

Vysis LSI EGR1 / D5S23, D5S721 Dual Color Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI EGR1/D5S23, D5S721 Dual Color Probe Kit (CE)	20 µL	08L68-020	00884999031586

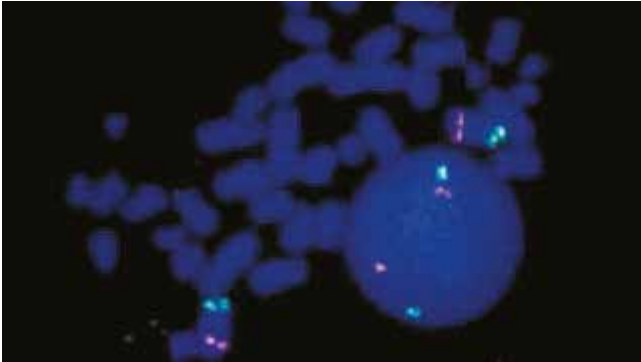
**PRODUCT DESCRIPTION**

This fluorescence in situ hybridization (FISH) probe set is intended to detect the deletion of the Locus Specific Identifier (LSI) EGR1 probe target on chromosome band 5q31.

The LSI EGR1/D5S23, D5S721 Dual Color Probe Set is a mixture of a SpectrumOrange EGR1 probe (5q31) and a SpectrumGreen D5S23, D5S721 probe (5p15). The LSI EGR1 probe target is approximately 209 kb in length. The LSI D5S23, D5S721 target spans about 561 kb.

## RESULTS OF HYBRIDIZATION

In a normal cell, the expected pattern for a nucleus hybridized with the LSI EGR1/D5S23, D5S721 probe is the two orange, two green (2O2G) signal pattern. In a hybridized abnormal cell containing the deletion, the one orange, two green (1O2G) signal pattern will be observed.

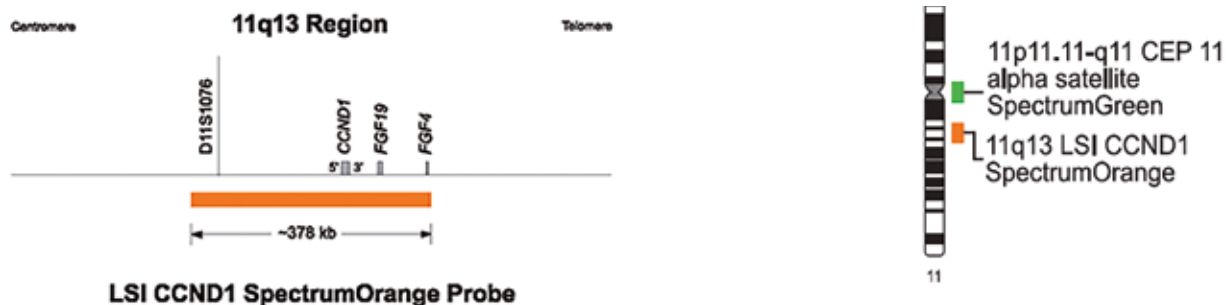


**Normal Hybridization:** Normal hybridization: LSI EGR1/D5S721, D5S23

Dual Color Probe hybridized to normal cells showing the two orange, two green (2O2G) signal pattern.

Other Hematology

# Vysis LSI CCND1 / CEP 11 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CCND1/CEP11 FISH Probe Kit (CE)	20 µL	03N88-020	00884999006263

## PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to determine copy number of the Cyclin D1 locus located on chromosome 11q13, or as an enumerator probe for chromosome 11 in interphase and metaphase cells.

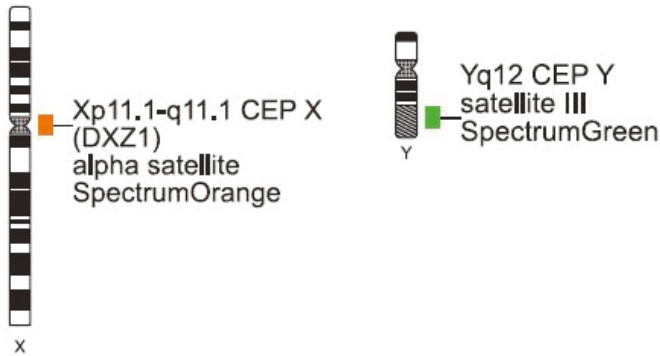
The Vysis LSI CCND1 SpectrumOrange/CEP11 SpectrumGreen Probes vial contains a mixture of 2 probes. The CCND1 probe is approximately 378 kb, contains the CCND1 gene, and is labeled in SpectrumOrange. The second probe is specific to the D11Z1 alpha satellite centromeric repeat of chromosome 11 (11p11.11-q11) and is labeled in SpectrumGreen.

## RESULTS OF HYBRIDIZATION

Hybridization of this probe to interphase nuclei of normal cells is expected to produce two orange and two green signals. The anticipated signal pattern in abnormal cells having a gain of copy number of the CCND1 target without a gain of the CEP 11 target is two green and multiple orange signals. Other patterns may be observed if additional genetic alterations are present.

Sex-Mismatched Bone Marrow Transplantation

Vysis CEP X SpectrumOrange / Y SpectrumGreen DNA Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit <b>(CE)</b>	20 Assays	07J22-050	00884999027091
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit (without control slides) <b>(CE)</b>	20 Assays	07J20-050	00884999027022

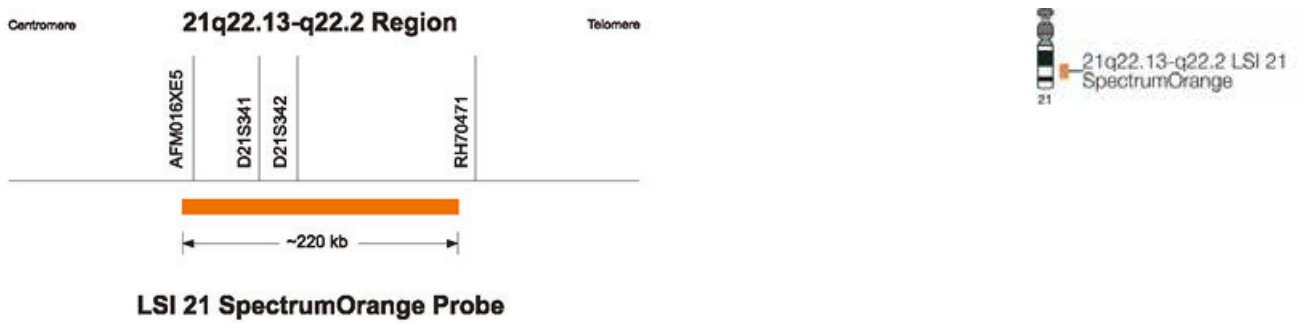
**PRODUCT DESCRIPTION**

The CEP X SpectrumOrange/Y SpectrumGreen DNA Probe Kit is intended to detect alpha satellite sequences in the centromere region of chromosome X and satellite III DNA at the Yq12 region of chromosome Y in conjunction with routine diagnostic cytogenetic testing. It is indicated for use as an adjunct to standard cytogenetic analysis for identifying and enumerating chromosomes X and Y via FISH in interphase nuclei and metaphase spreads obtained from bone marrow specimens in subjects who received opposite-sex bone marrow transplantation for chronic myelogenous leukemia (CML), acute myeloid leukemia (AML), myeloproliferative disorder (MPD), myelodysplastic syndrome (MDS), acute and lymphoid leukemia (ALL), or hematological disorder not otherwise specified (HDNOS). It is not intended to be used as a stand alone assay for test reporting; FISH results are intended to be reported and interpreted only in conjunction with results from standard cytogenetic analysis, performed concurrently, using the same patient specimen. This device is not intended for use in subjects with like-sex bone marrow transplants; with matrices other than unstimulated, cultured bone marrow specimens; or in screening for constitutional X and Y chromosome aneuploidies.

The CEP X DNA probe (DXZ1 locus) is a SpectrumOrange directly labeled fluorescent DNA probe specific for the AT rich alpha satellite DNA sequence at the centromeric region of chromosome X (Xp11.1- Xq11.1). The CEP Y DNA probe (DYZ1 locus) is a SpectrumGreen directly labeled fluorescent DNA probe specific for the satellite III DNA at the Yq12 region of chromosome Y. This assay is designed for the detection and quantification of chromosomes X and Y in both interphase nuclei and metaphase spreads by FISH.

Other Hematology

Vysis LSI 21 SpectrumOrange Probe



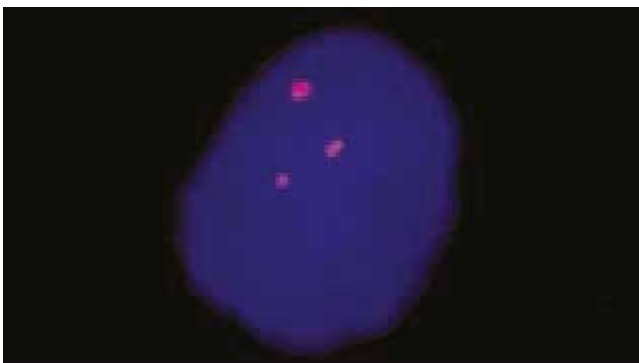
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 21 SpectrumOrange Probe (CE)	20 µL	08L54-020	00884999031449

PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to detect the copy number of chromosome 21 or the copy number of the LSI 21 probe target. The SpectrumOrange-labeled Locus Specific Identifier (LSI 21) probe is approximately 220 kb in length (chr21: 39439949-39659711; February 2009 Assembly UCSC Human Genome Browser <http://genome.ucsc.edu/>).

The Vysis LSI 21 SpectrumOrange probe has a cytogenetic location of 21q22.13-q22.2. It contains the D21S259, D21S341, and D21S342 markers.

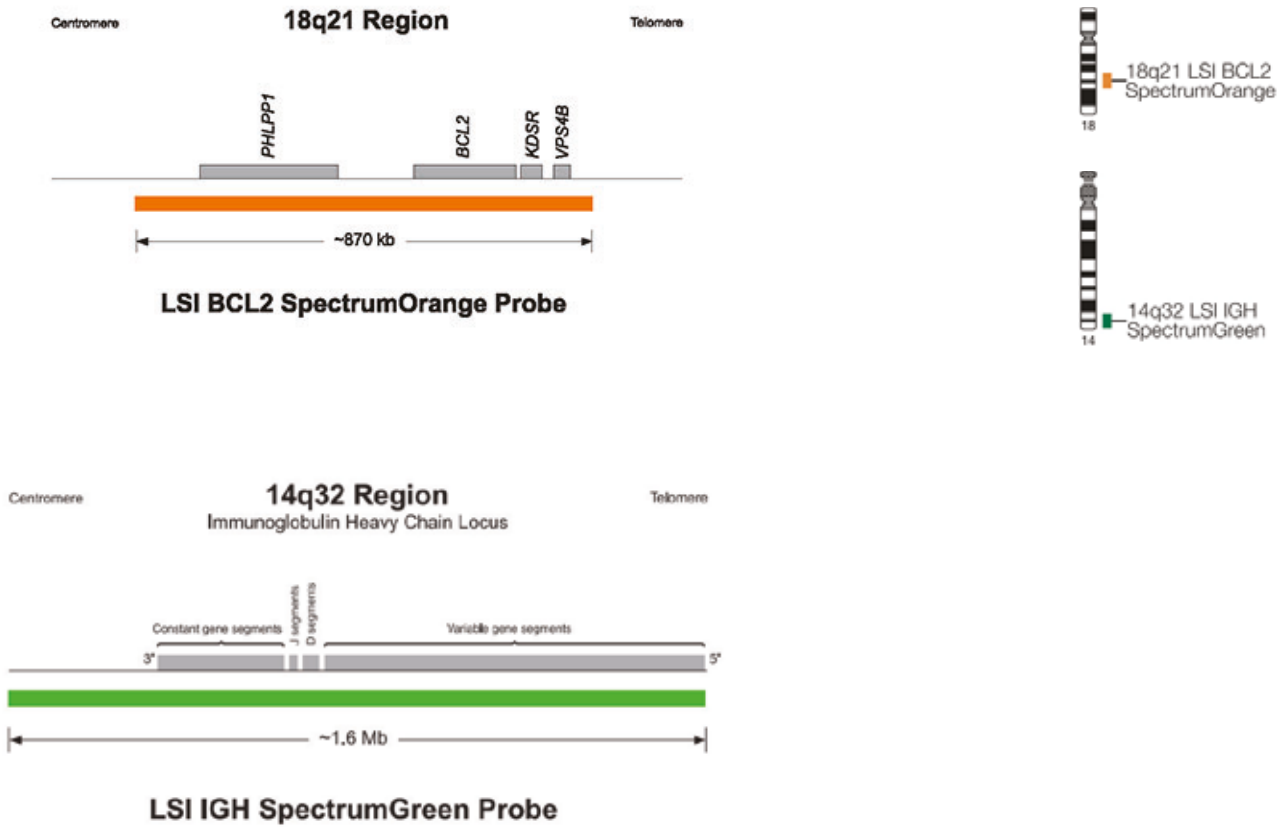
RESULTS OF HYBRIDIZATION



**Abnormal Hybridization:** LSI 21 SpectrumOrange hybridized to a cultured amniocyte.

Other Hematology

Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe Set



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe Set <b>(CE)</b>	20 µl	08L60-020	00884999031500

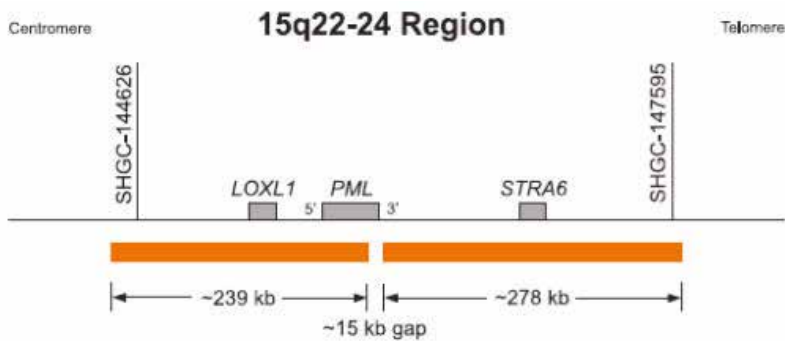
PRODUCT DESCRIPTION

Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe Set is intended to detect the t(14;18)(q32;q21) that juxtaposes the IGH (immunoglobulin heavy chain) locus and the BCL2 (B-cell leukemia/lymphoma) gene.

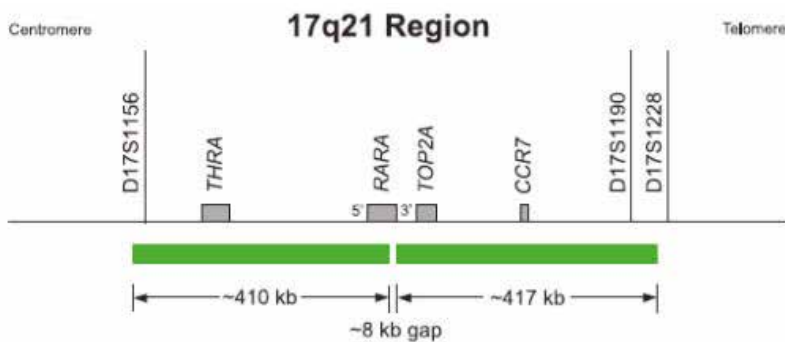
The Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe is a mixture of a SpectrumGreen LSI IGH probe and a SpectrumOrange BCL2 probe. The LSI IGH probe spans about a 1.6 Mb target and contains sequences covering essentially the entire IGH locus, as well as sequences extending about 300 kb beyond the 3' end of the IGH locus. The LSI BCL2 probe spans approximately 870 kb of sequence, contains the entire BCL2 gene, and extends for about 141 kb telomeric of the gene and about 533 kb centromeric of the gene.

Other Hematology

Vysis LSI PML/RARA Dual Color, Dual Fusion Translocation Probe Kit



**LSI PML SpectrumOrange  
Dual Color, Dual Fusion Probe**



**LSI RARA SpectrumGreen  
Dual Color, Dual Fusion Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PML/RARA Dual Color, Dual Fusion Translocation Probe Kit <b>(CE)</b>	20 µL	01N36-020	00884999000780

**PRODUCT DESCRIPTION**

The LSI PML/RARA Dual Color, Dual Fusion Translocation Probe Set is intended to detect the t(15;17)(q22;q12-21) that results in the PML/RARA gene fusion.

It is a mixture of a SpectrumGreen RARA probe and a SpectrumOrange PML probe. The LSI RARA probe is approximately 827 kb in length and spans the RARA gene. The LSI PML target spans the PML gene and is approximately 517 kb. Within the PML probe target, there is a gap of 15 kb in coverage.

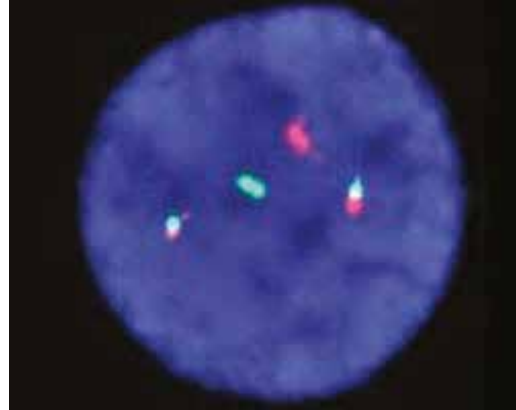
## RESULTS OF HYBRIDIZATION

In a normal cell that lacks the t(15;17), a two orange and two green signal pattern will be observed reflecting the two intact copies of RARA and PML, respectively.

This probe is provided for those interested in identifying the t(15;17). In an abnormal cell containing the t(15;17), one orange (PML), a one green (RARA), and two fusion (PML/RARA and RARA/PML) signal pattern is observed.



**Normal Hybridization:** Result of the hybridization of the LSI PML/RARA Dual Color, Dual Fusion Translocation Probe as observed in a normal interphase cell.



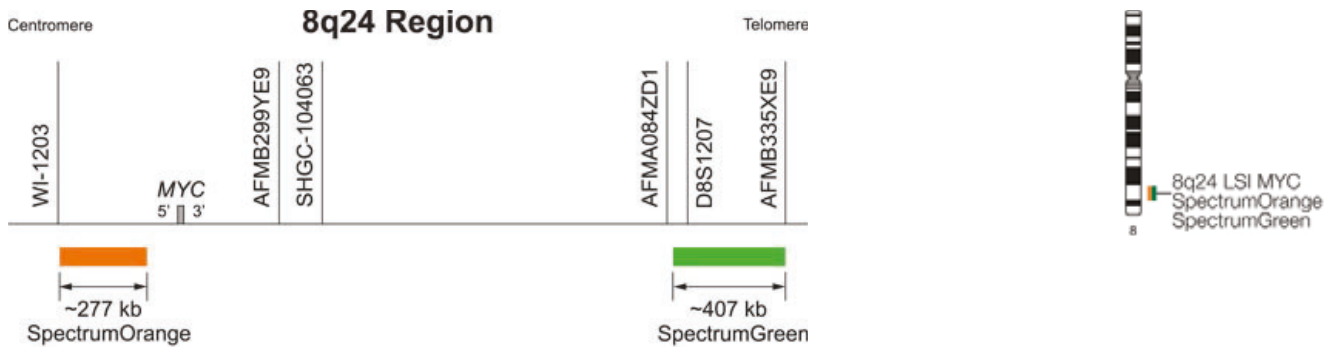
**Abnormal Hybridization:** Abnormal cell hybridized with the LSI PML/RARA Dual Color, Dual Fusion Translocation Probe.

The cell in this image shows the one orange (PML), one green (RARA), two fusion (PML/ RARA and RARA/PML) signal pattern indicative of the t(15;17).



Other Hematology

Vysis LSI MYC Break Apart Rearrangement Probe Kit



**LSI MYC Dual Color,  
Break Apart Rearrangement Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC Break Apart Rearrangement Probe Kit (CE)	20 µL	01N63-020	00884999000827

**PRODUCT DESCRIPTION**

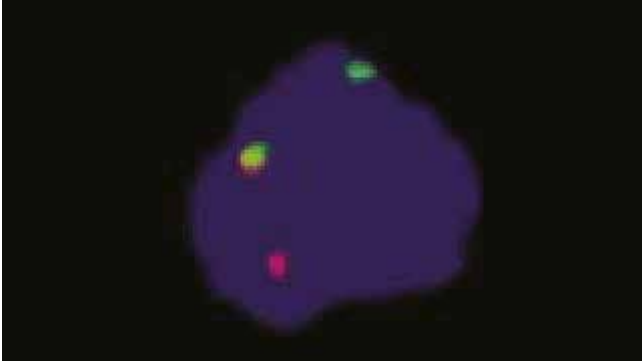
The Vysis LSI MYC Dual Color Break Apart Rearrangement fluorescence in situ hybridization probe is intended to detect chromosomal rearrangements involving the MYC gene region on chromosome 8q24. It is particularly useful for detection of aberrations with breakpoints located far telomeric to MYC such as those that can occur in the variant t(8;22)(q24.1;q11.2) IGL-MYC and t(2;8)(p11.2;q24.1) IGK-MYC rearrangements. Translocations involving the MYC region have diagnostic and prognostic importance in B-cell malignancies. In Burkitt’s lymphoma approximately 75 to 80% of cases carry t(8;14) IGH-MYC and the remainder are associated with t(8;22) IGL-MYC or t(2;8) IGK-MYC. In approximately 5 to 10% of diffuse large B-cell lymphoma (DLBCL) patients also have MYC region rearrangements, and detection of these rearrangements with the MYC Dual Color Break Apart Rearrangement Probe has been associated with a poor prognosis. It has been suggested that FISH analysis for MYC rearrangements should be performed on all DLBCL patients.

The approximately 277 kb (chr8:128432540-128709819; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe starts 119 kb centromeric to the MYC gene and is centromeric to the common breakpoint region.

The approximately 407 kb (chr8:130338931-130745615; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe begins approximately 1.5Mb telomeric to the MYC gene and is telomeric to the breakpoint region observed in t(8;22) and t(2;8) translocations.

## RESULTS OF HYBRIDIZATION

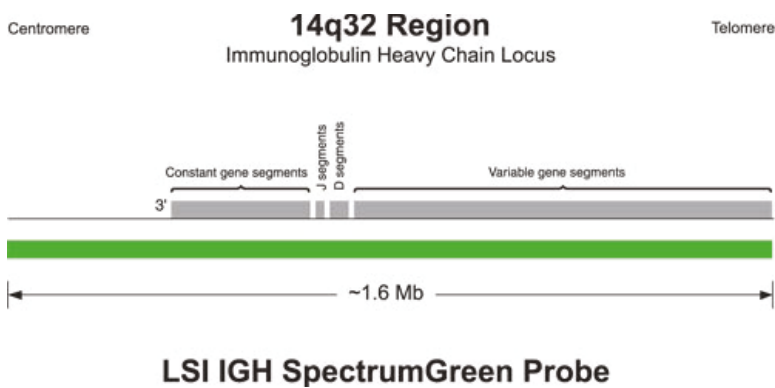
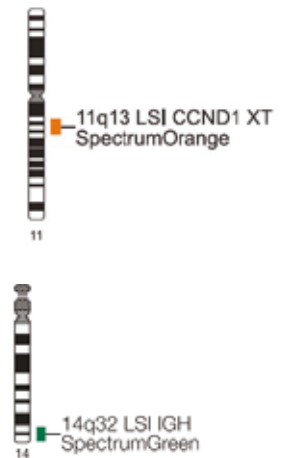
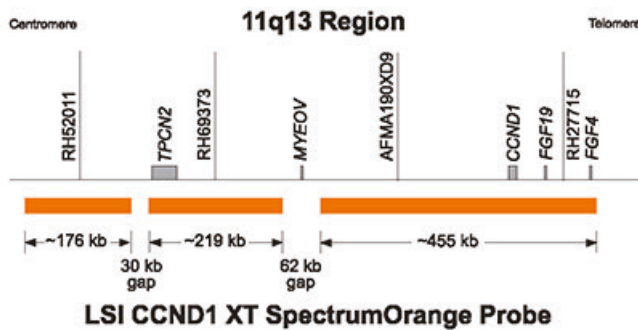
An abnormal nucleus hybridized with the LSI MYC Dual Color Break Apart Rearrangement Probe produces a two orange/green (yellow) fusion (2F) pattern. A one orange, one green, and one fusion pattern (1O1G1F) is expected from a sample with a t(2;8), t(8;22) or t(8;14) having a breakpoint within the gap between the hybridization targets of the LSI MYC probes.



**Abnormal Hybridization:** LSI MYC Dual Color Break Apart Rearrangement Probe hybridized to an abnormal nucleus showing a one orange, one green and one orange/green fusion (1O1G1F) signal pattern.

Other Hematology

Vysis LSI IGH/CCND1 XT Dual Color, Dual Fusion FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis IGH/CCND1 XT DF FISH Probe Kit (CE)	20 µL	05N33-020	00884999014862

PRODUCT DESCRIPTION

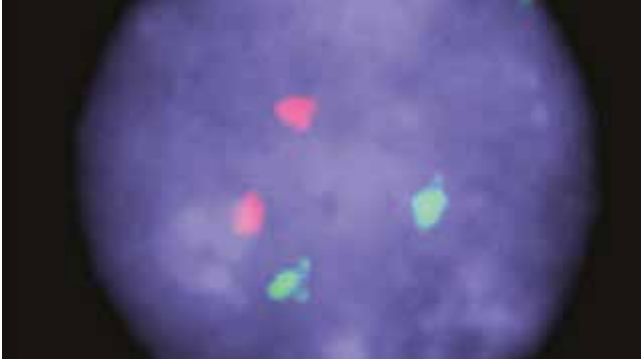
These fluorescence in situ hybridization (FISH) probes are intended to detect t(11;14)(q13;q32) reciprocal translocation involving the IGH and CCND1 gene regions.

The approximately 942 kb SpectrumOrange probe spans the CCND1 breakpoint region with gaps of 30 kb and 62 kb. The contig is composed of 3 segments of approximately 176 kb (chr11:68363475-68539031; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>), 219 kb (chr11:68568591-68787877; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and 455 kb (chr11:68850088-69305335; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The approximately 1.6 Mb SpectrumGreen probe spans the IGH region (chr14:104736507-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

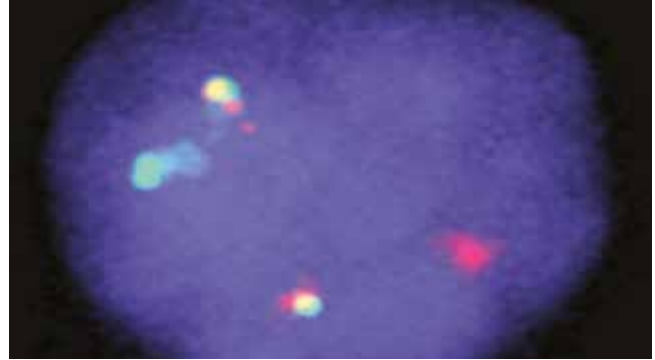
## RESULTS OF HYBRIDIZATION

In an abnormal cell containing the t(11;14), one orange (CCND1/MYEOV), one green (IGH), and two fusion signal pattern (der (11) and der (14)) may be observed. Some samples containing the t(11;14) may display signal patterns different than one orange, one green, and two fusions.

In a normal cell that lacks the t(11;14), a two orange and two green signal pattern will be observed reflecting the two intact copies of CCND1/MYEOV and IGH respectively.



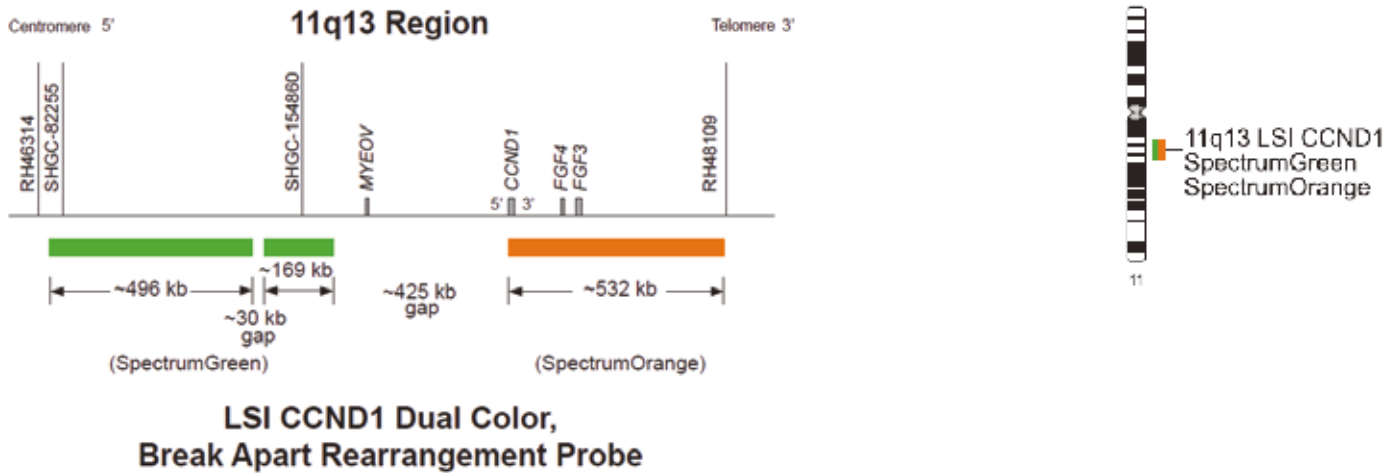
**Normal Hybridization:** A normal interphase cell hybridized with the Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes. The cell shows the expected two orange (CCND1/MYEOV), two green (IGH) signal pattern.



**Abnormal Hybridization:** An abnormal interphase cell hybridized with the Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes. The cell in this image shows the one orange (CCND1/MYEOV), one green (IGH), two fusion (der (11) and der (14)) signal pattern indicative of a t(11;14).

Other Hematology

Vysis LSI CCND1 (11q13) Dual Color, Break Apart Rearrangement Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CCND1 Break Apart Rearrangement FISH Probe Kit <b>(CE)</b>	20 µL	05N38-020	00884999014909

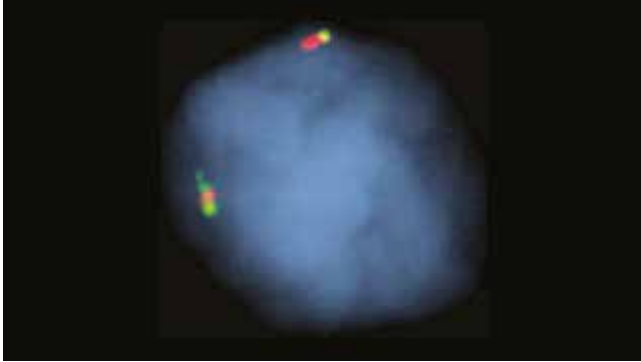
**PRODUCT DESCRIPTION**

The Vysis CCND1 Dual Color Break Apart Rearrangement FISH probe is intended to detect chromosomal rearrangements involving the Cyclin D1 (CCND1) gene region at chromosome 11q13.

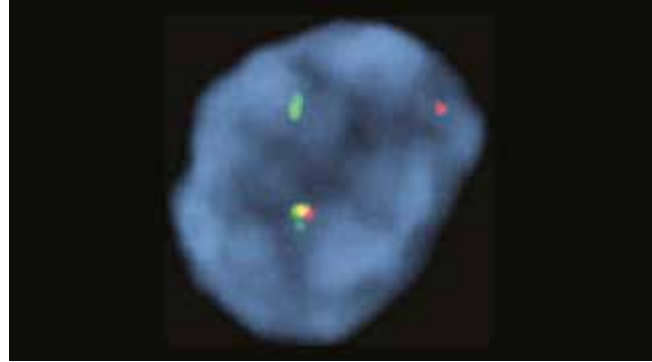
The SpectrumGreen probe is located centromeric to CCND1 and spans approximately 695 kb (chr11:68042961-68737635; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) with an approximately 30 kb gap (chr11:68539031-68568615; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The SpectrumOrange probe spans approximately 532 kb (chr11:69162485-69694376; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers CCND1.

## RESULTS OF HYBRIDIZATION

The anticipated signal pattern in abnormal cells having a chromosomal breakpoint within the gap between the two probe targets on one chromosome 11 is one orange, one green, and one fusion signal. Other patterns may be observed if additional genetic alterations are present. Hybridization of this probe to interphase nuclei of normal cells is expected to produce two pair of overlapping, or nearly overlapping, orange and green (yellow fusion) signals.



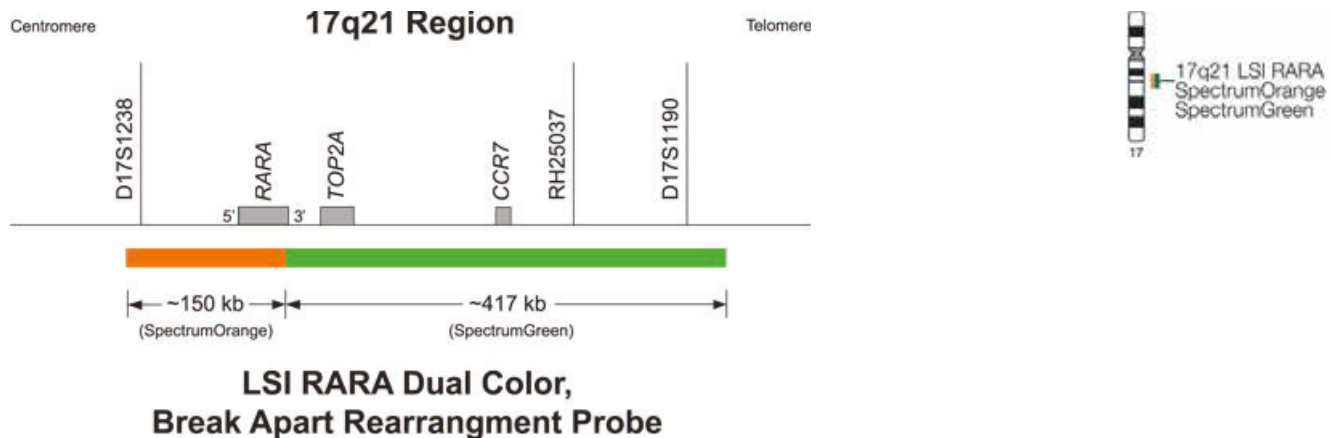
**Normal Hybridization:** Normal cell hybridization using the LSI CCND1 (11q13) Dual Color Break Apart Rearrangement Probe.



**Abnormal Hybridization:** Abnormal cell hybridization using the LSI CCND1 (11q13) Dual Color Break Apart Rearrangement Probe.

Other Hematology

# Vysis LSI RARA Dual Color Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RARA Dual Color Break Apart Rearrangement Probe (CE)	20 µL	05N46-020	00884999014954

## PRODUCT DESCRIPTION

The Vysis RARA Break Apart FISH Probe is intended to detect chromosomal rearrangements involving the RARA gene region at chromosome 17q21 using the fluorescence in situ hybridization (FISH) technique.

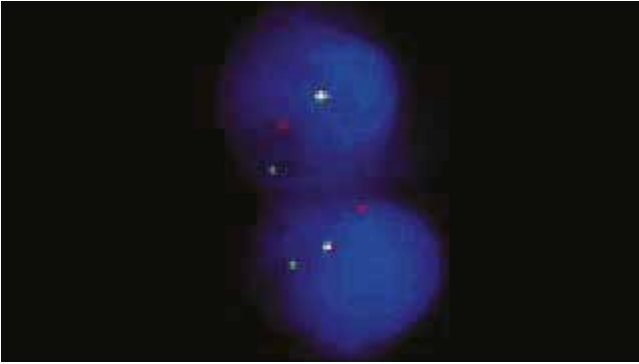
Acute promyelocytic leukemia (APL) is associated with chromosomal rearrangements involving the retinoic acid receptor  $\mu$  (RARA) gene on chromosome 17q21 and variable partner genes. In the vast majority of APL cases, the RARA gene fuses with the promyelocytic leukemia gene (PML) located on chromosome 15q22 resulting in a t(15;17) translocation. RARA fusions with promyelocytic leukemia zinc finger (PLZF, 11q13), nucleophosmin (NPM, 5q35), nuclear mitotic apparatus (NuMA, 11q23), signal transducer and activator of transcription 5b (STAT5B, 17q21), and PRKAR1A (protein kinase, cAMP- dependent, regulatory, type I, alpha, 17q23-q24) genes are also described.

The Vysis RARA Break Apart FISH Probe Kit has been used in several studies to detect chromosome 17q21 rearrangements involving the RARA gene. The approximately 150 kb (chr17:35612650-35762683; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe lies mostly centromeric to the RARA gene breakpoint region which occurs in intron 2. The probe does extend about 4 kb telomeric beyond intron 2. The approximately 417 kb (chr17:35762877-36180271; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe lies telomeric to the RARA breakpoint region.

## RESULTS OF HYBRIDIZATION

The signal pattern observed in a cell that is lacking a RARA gene rearrangement consists of two orange/green (yellow) fusion signals (2F). The two fusion signals represent the normal (non-rearranged) RARA genes located on both 17 chromosomes. A signal pattern indicative of the RARA gene rearrangement is one orange, one green, and one green/orange (yellow) fusion signal. The separation of orange and green signals from one fusion (1O1G1F) indicates that the RARA gene has split apart.

The remaining single fusion signal represents the normal (non-rearranged RARA) gene on the normal chromosome extends approximately 400 kb toward the telomere of chromosome 17.

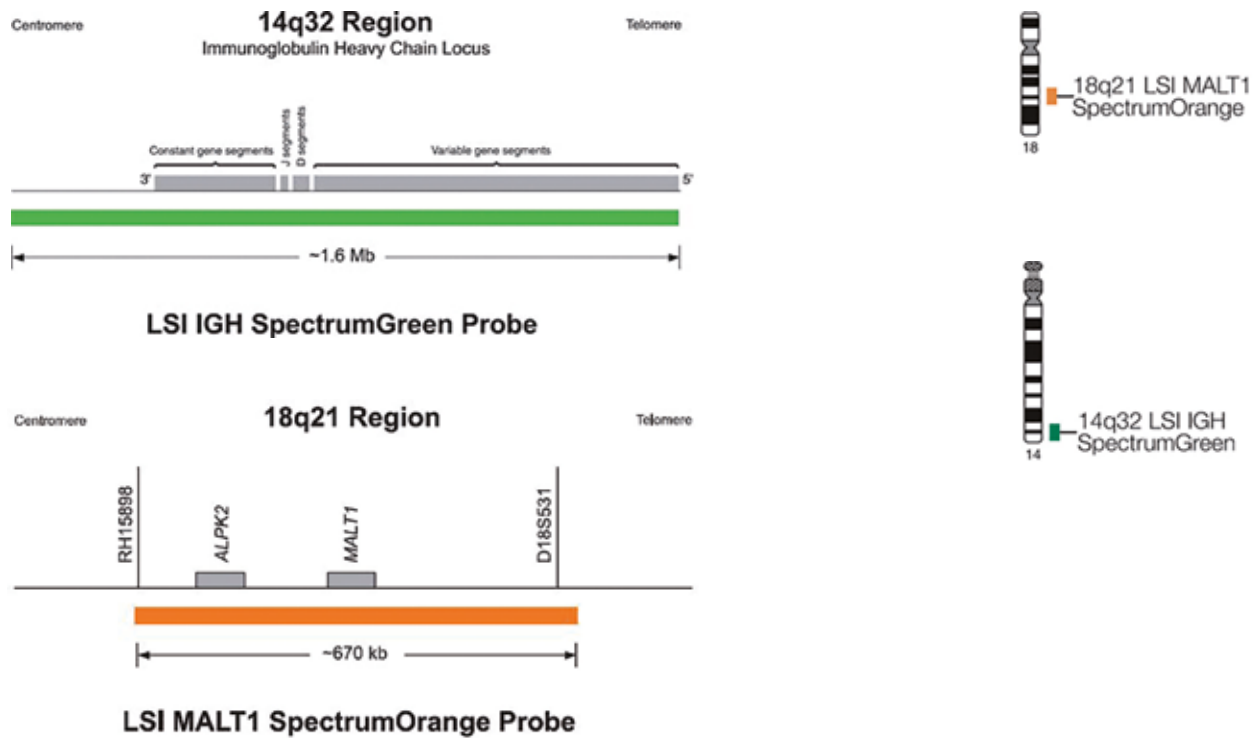


**Abnormal Hybridization:** Vysis LSI RARA Dual Color, Break Apart Rearrangement Probe hybridized to nuclei containing one orange, one green and one fusion (1O1G1F) signal pattern.



Other Hematology

Vysis LSI IGH/MALT1 DF FISH Probe Kit



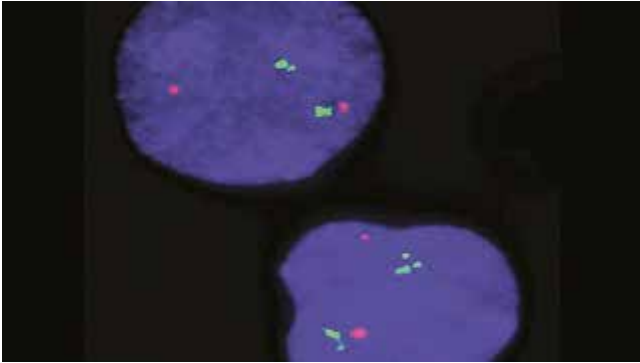
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MALT1 DF FISH Probe Kit (CE)	20 µL	05N47-020	00884999014961

**PRODUCT DESCRIPTION**

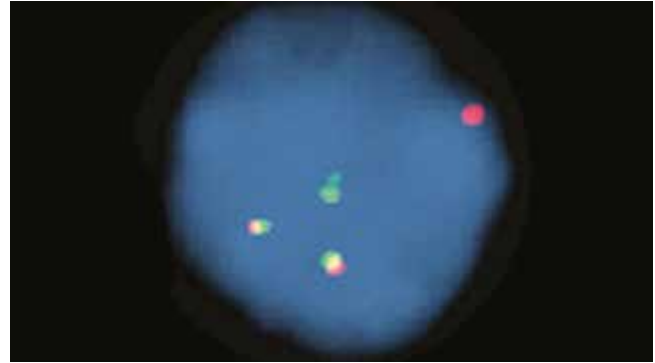
The Vysis IGH/MALT1 DF FISH Probe Kit is intended to detect the t(14;18)(q32;q21) reciprocal translocation involving the IGH and MALT1 gene regions using the fluorescence in situ hybridization (FISH) technique.

The SpectrumOrange probe spans approximately 670 kb (chr18:54220804-54891192; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers the MALT1 gene region. The approximately 1.6 Mb SpectrumGreen probe spans the IGH region (chr14:104736507-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

RESULTS OF HYBRIDIZATION



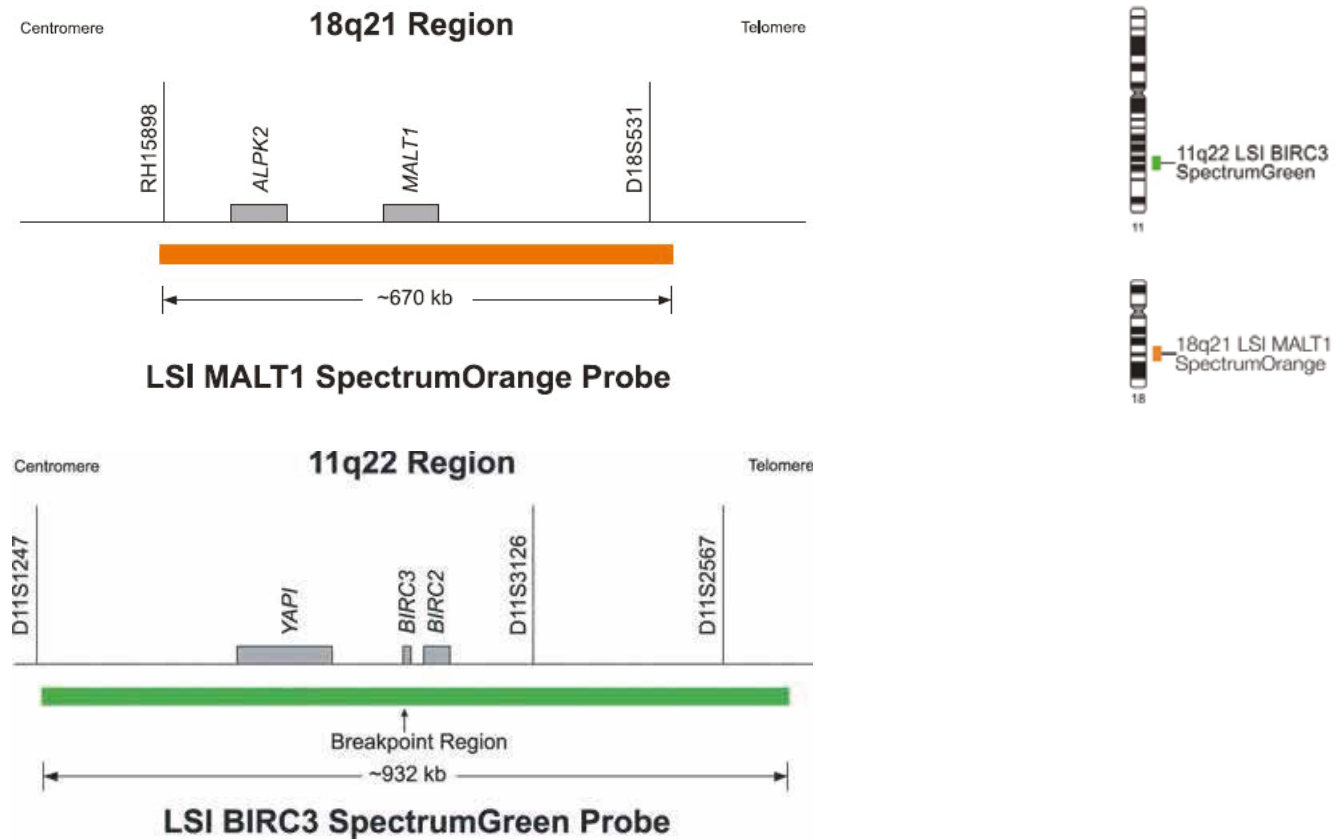
**Normal Hybridization:** Result of the hybridization of the LSI IGH/MALT1 t(14;18)(q32;q21) Dual Color, Dual Fusion Translocation Probe as observed in interphase cells.



**Abnormal Hybridization:** Cell hybridized with the LSI IGH/MALT1 t(14;18)(q32;q21) Dual Color, Dual Fusion Translocation Probe. The cell in this image shows the one orange, one green and two fusion signal pattern.

Other Hematology

Vysis LSI BIRC3/MALT1 DF FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BIRC3/MALT1 DF FISH Probe Kit (CE)	20 µL	05N50-020	00884999014985

PRODUCT DESCRIPTION

The Vysis BIRC3/MALT1 DF FISH Probe Kit is intended to detect the t(11;18) (q21;q21) reciprocal translocation involving the BIRC3 (also known as API2) and MALT1 gene regions using the fluorescence in situ hybridization (FISH) technique.

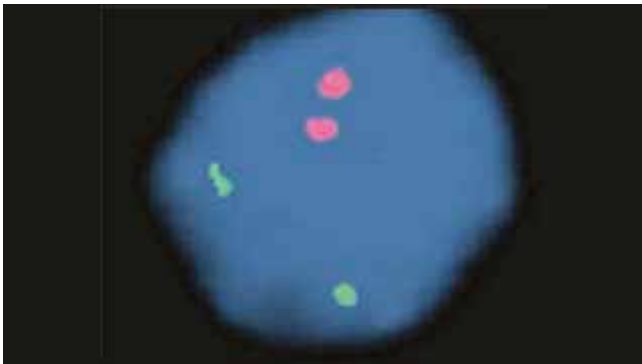
The SpectrumOrange probe spans approximately 670 kb (chr18:54220804-54891192; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers the MALT1 gene region.

The approximately 932 kb (chr11:101247706-102179265; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe spans the BIRC3 gene region.

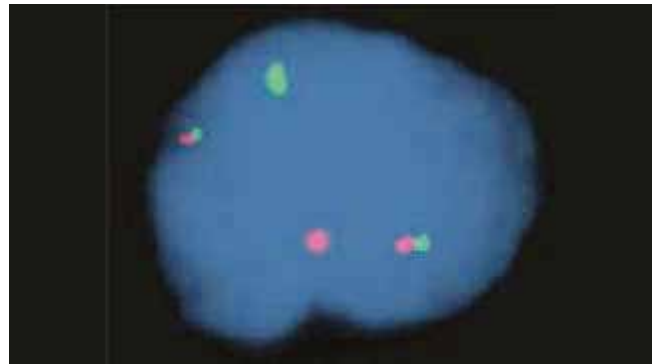
## RESULTS OF HYBRIDIZATION

In a normal cell that lacks the t(11;18)(q21;q21) translocation, a two orange, two green signal pattern will be observed reflecting the two intact copies of MALT1 and BIRC3, respectively.

In an abnormal cell containing the t(11;18)(q21;q21) translocation, a one orange (MALT1), one green (BIRC3), and two fusion (BIRC3/MALT1 and MALT1/ BIRC3) signal pattern will be observed. Some samples containing the t(11;18) may display signal patterns differently than the one orange, one green, and two fusions.



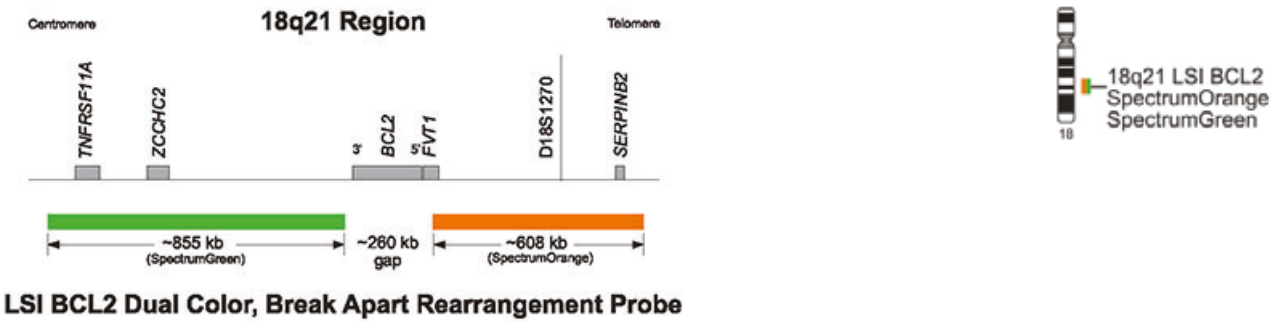
**Normal Hybridization:** Result for the hybridization of the LSI BIRC3/MALT1 Dual Color Dual Fusion Probes as observed in normal interphase cells.



**Abnormal Hybridization:** An abnormal cell hybridized with the LSI BIRC3/MALT1 Dual Color Dual Fusion Probes. The cell in this image shows the one orange, one green and two fusion signal pattern indicative of the t(11;18)(q21;q21) translocation.

Other Hematology

Vysis LSI BCL2 Break Apart FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCL2 Break Apart FISH Probe kit (CE)	20 µL	05N51-020	00884999014992

PRODUCT DESCRIPTION

The Vysis BCL2 Break Apart FISH Probe Kit is intended to detect chromosomal rearrangements at the BCL2 locus on chromosome 18q21 using the fluorescence in situ hybridization (FISH) technique. The approximately 608 kb (chr18:59173700-59781786; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe lies telomeric to the BCL2 breakpoint region.

The approximately 855 kb (chr18:58058886-58913398; hMarch 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe lies centromeric to the BCL2 breakpoint region.

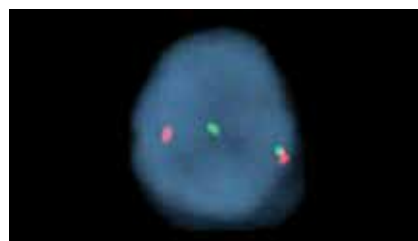
RESULTS OF HYBRIDIZATION

The anticipated signal pattern in abnormal cells having a chromosomal breakpoint within the gap between the two probe targets on one chromosome 18 is one orange, one green, and one fusion signal. Other patterns may be observed if additional genetic alterations are present.

Hybridization of this probe to interphase nuclei of normal cells is expected to produce two pair of overlapping, or nearly overlapping, orange and green (yellow fusion) signals.

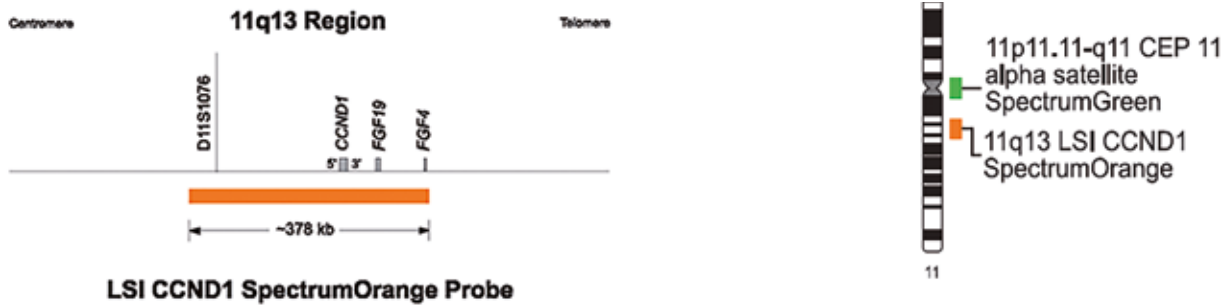
**Normal Hybridization:** Normal cell hybridization using the LSI BCL2 Dual Color Break Apart Rearrangement Probe.

**Abnormal Hybridization:** Abnormal cell hybridization using the LSI BCL2 Dual Color Break Apart Rearrangement Probe.



Other Hematology

Vysis LSI CCND1 / CEP 11 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CCND1/CEP 11 FISH Probe Kit (CE)	20 µL	03N88-020	00884999006263

PRODUCT DESCRIPTION

This fluorescence in situ hybridization (FISH) probe is intended to determine copy number of the Cyclin D1 locus located on chromosome 11q13, or as an enumerator probe for chromosome 11 in interphase and metaphase cells.

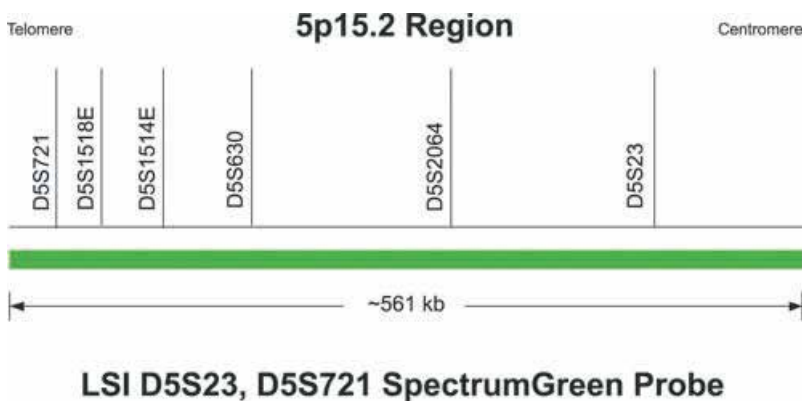
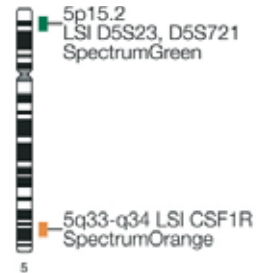
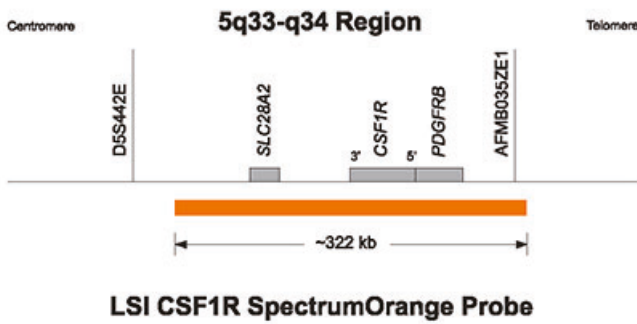
The Vysis LSI CCND1 SpectrumOrange/CEP11 SpectrumGreen Probes vial contains a mixture of 2 probes. The CCND1 probe is approximately 378 kb, contains the CCND1 gene, and is labeled in SpectrumOrange. The second probe is specific to the D11Z1 alpha satellite centromeric repeat of chromosome 11 (11p11.11-q11) and is labeled in SpectrumGreen.

RESULTS OF HYBRIDIZATION

Hybridization of this probe to interphase nuclei of normal cells is expected to produce two orange and two green signals. The anticipated signal pattern in abnormal cells having a gain of copy number of the CCND1 target without a gain of the CEP 11 target is two green and multiple orange signals. Other patterns may be observed if additional genetic alterations are present.

Other Hematology

Vysis LSI CSF1R SpectrumOrange / D5S23, D5S721 SpectrumGreen Probe Kit



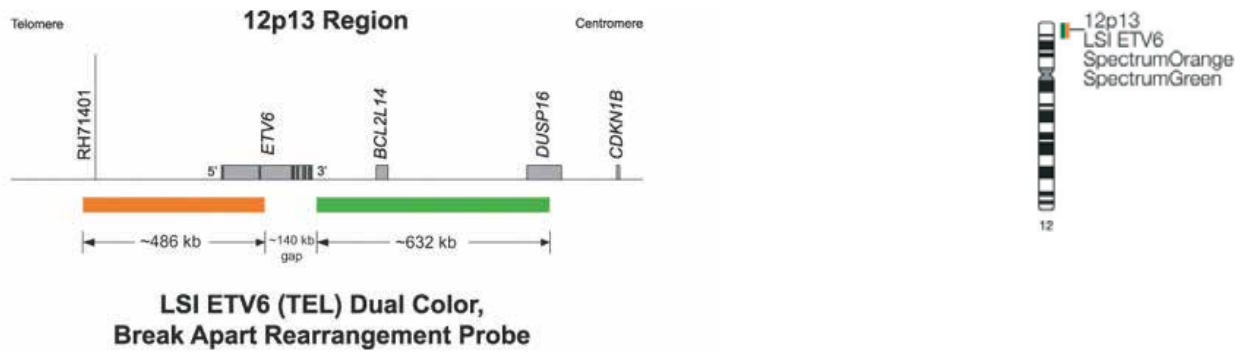
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CSF1R/D5S23, D5S721 FISH Probe Kit (CE)	20 µL	05N03-020	00884999014336

PRODUCT DESCRIPTION

These fluorescence in situ hybridization (FISH) probes are intended to detect loss of the LSI CSF1R probe target in the chromosome 5q33-q34 region. The Vysis LSI CSF1R/D5S23, D5S721 Dual Color probe is a mixture of the approximately 322 kb SpectrumOrange labeled CSF1R probe and the approximately 561 kb SpectrumGreen labeled D5S23, D5S721 probe.

Other Hematology

Vysis ETV6 Break Apart FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ETV6 Break Apart FISH Probe Kit (CE)	20 µL	04N09-020	00884999007932

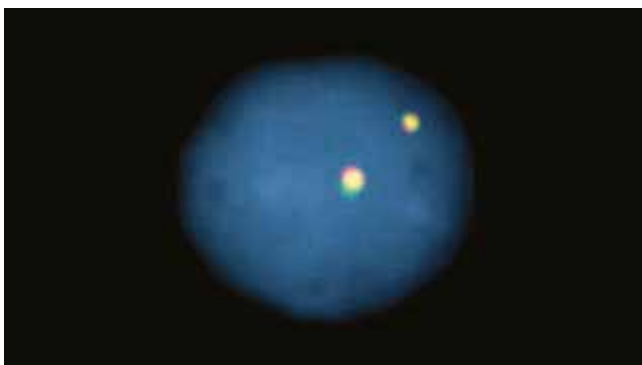
PRODUCT DESCRIPTION

The LSI ETV6 fluorescence in situ hybridization (FISH) probe kit is intended to detect chromosomal rearrangements involving the ETV6 gene located at chromosome 12p13.

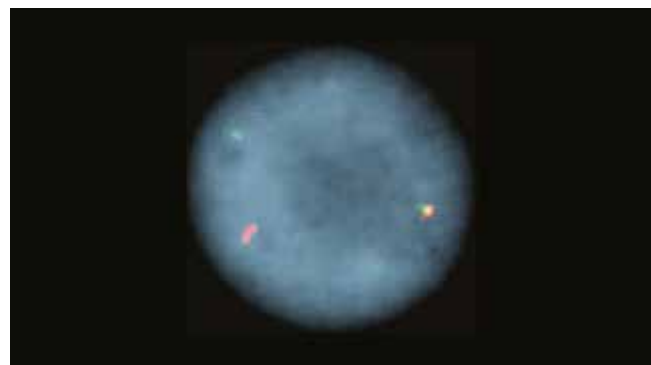
The Vysis ETV6 Dual Color Break Apart Rearrangement Probe consists of a mixture of 2 FISH DNA probes. The approximately 486 kb SpectrumOrange-labeled probe lies telomeric to the ETV6 gene breakpoint region. The approximately 632 kb SpectrumGreen-labeled probe lies centromeric to the ETV6 gene breakpoint region..

RESULTS OF HYBRIDIZATION

Hybridization of this probe to interphase nuclei of normal cells is expected to produce two pair of overlapping, or nearly overlapping, orange and green (yellow fusion) signals. The anticipated signal pattern in abnormal cells having a chromosomal breakpoint within the gap between the two probe targets on one chromosome 12 is one orange, one green, and one fusion signal. Other patterns may be observed if additional genetic alterations are present.



**Normal Hybridization:** Normal cell hybridization using the LSI ETV6 (TEL) (12p13) Dual Color, Break Apart Rearrangement Probe.

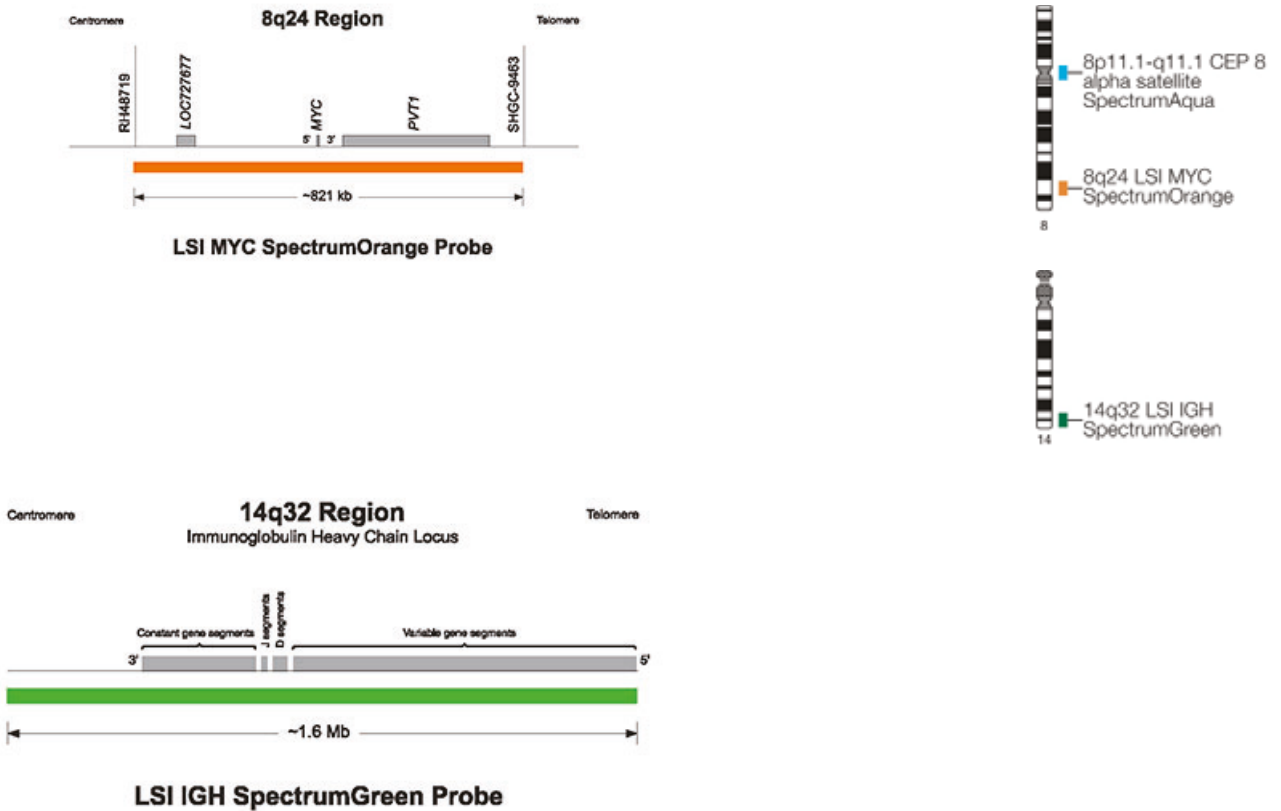


**Abnormal Hybridization:** Abnormal cell hybridization using the LSI ETV6 (TEL) (12p13) Dual Color, Break Apart Rearrangement Probe.



Other Hematology

Vysis LSI IGH/MYC/CEP 8 Tri-Color Dual Fusion FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MYC/CEP 8 Tri-Color Dual Fusion Probe Kit (CE)	20 µL	04N10-020	00884999007949

PRODUCT DESCRIPTION

The Vysis IGH/MYC/CEP 8 Tri-Color Dual Fusion FISH probes are intended to detect the t(8;14)(q24;q32) reciprocal translocation involving the IGH and MYC gene regions.

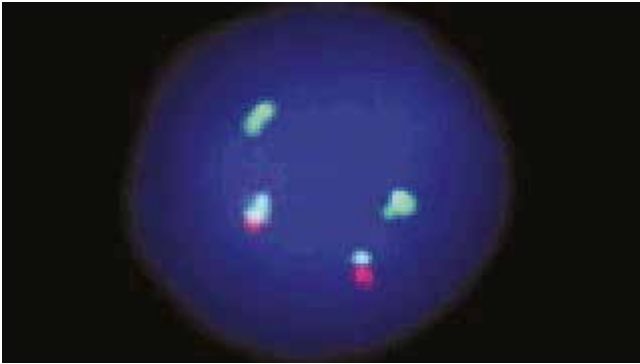
The t(8;14)(q24;q32) translocation is a hallmark of Burkitt’s Lymphoma (BL) and occurs in about 80% of BL cases. As such, testing for t(8;14)(q24;q32) or variants is indicated as an essential test for BL. The Vysis LSI IGH/MYC/CEP 8 Tri-color Dual Fusion probe has been used to identify the t(8;14)(q24;q32) translocation in published reports. The aqua CEP 8 probe serves as a control for the copy number of chromosome 8. The SpectrumOrange probe spans approximately 821 kb (chr8:128432540-129253747; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers the MYC gene region.) The SpectrumAqua probe contains D8Z2 alpha satellite sequences and is specific to chromosome 8p11.1-q11.1. The approximately 1.6 Mb (chr14:104736507-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe spans the IGH region.

## RESULTS OF HYBRIDIZATION

The Vysis LSI IGH/MYC/CEP 8 Tri-color Dual Fusion fluorescence in situ hybridization probes are intended to detect the t(8;14)(q24;q32) reciprocal translocation involving the IGH and MYC gene regions.

The t(8;14)(q24;q32) translocation is a hallmark of Burkitt's Lymphoma (BL) and occurs in about 80% of BL cases. As such, testing for t(8;14)(q24;q32) or variants is indicated as an essential test for BL. The Vysis LSI IGH/MYC/CEP 8 Tri-color Dual Fusion probe has been used to identify the t(8;14)(q24;q32) translocation in published reports. The aqua CEP 8 probe serves as a control for the copy number of chromosome 8. The SpectrumOrange probe spans approximately 821 kb (chr8:128432540-129253747; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers the MYC gene region.

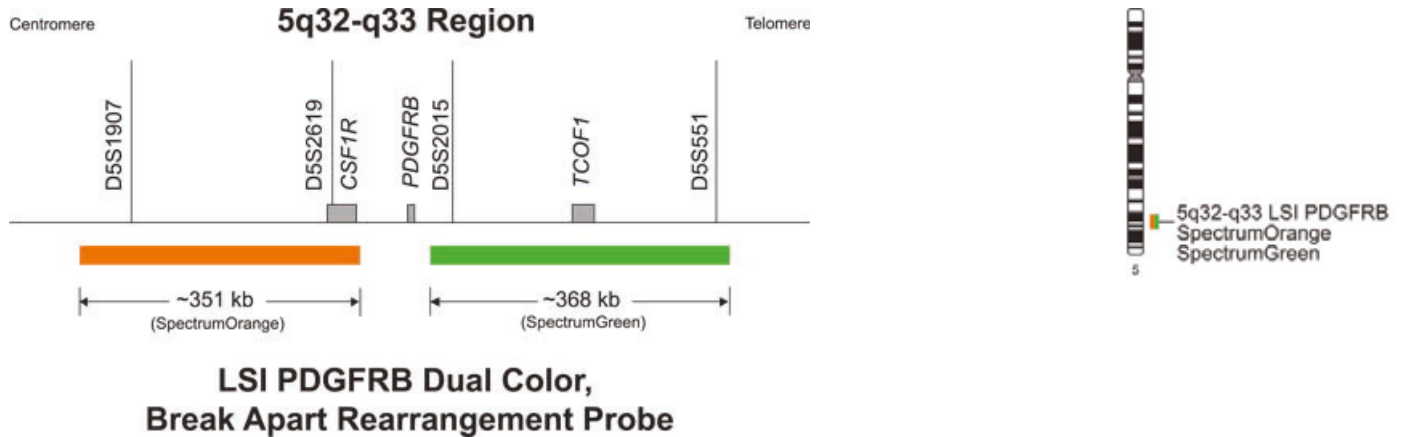
The SpectrumAqua probe contains D8Z2 alpha satellite sequences and is specific to chromosome 8p11.1-q11.1. The approximately 1.6 Mb (chr14:104736507-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe spans the IGH region.



**Normal Hybridization:** LSI IGH/MYC/CEP 8 Tri-Color Dual Fusion Probes hybridized to a normal nucleus showing the expected 202G2A signal pattern.

Other Hematology

Vysis LSI PDGFRB Break Apart FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PDGFRB Break Apart FISH Probe Kit <b>(CE)</b>	10 µL	06N24-010	00884999025585

**PRODUCT DESCRIPTION**

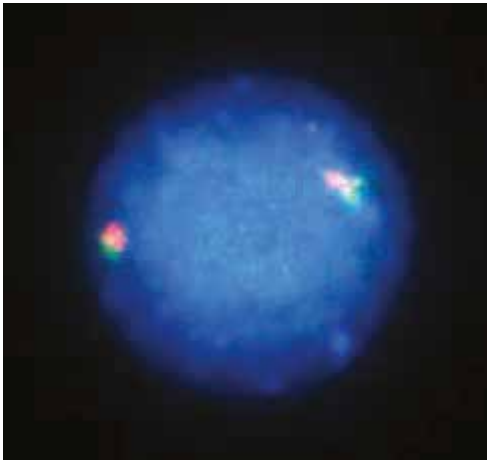
The Vysis PDGFRB Break Apart FISH Probe Kit is intended to detect chromosomal rearrangements involving the platelet derived growth factor receptor beta (PDGFRB) gene at chromosome 5q32-q33 using the fluorescence in situ hybridization (FISH) technique.

The approximately 351 kb (Chr5:149100088-149451543, March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe is positioned centromeric to the PDGFRB gene. The approximately 368 kb (chr5:149543318-149911781, March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe is positioned telomeric to the PDGFRB gene.

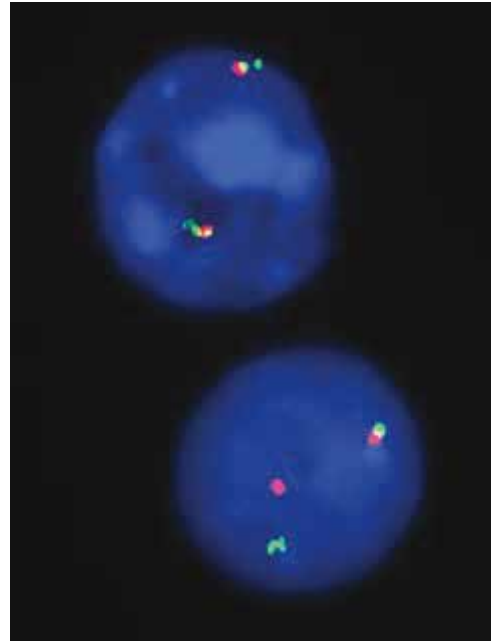
## RESULTS OF HYBRIDIZATION

The expected abnormal pattern of the Vysis LSI PDGFRB Break Apart Rearrangement Probe with a rearrangement involving the PDGFRB gene is one orange, one green, and one fusion signal. Other abnormal signal patterns may occur, and metaphase analysis may be helpful in characterization of such patterns.

The expected normal signal pattern of the Vysis LSI PDGFRB Break Apart Rearrangement Probe is two orange/green fusion signals that may be seen as adjacent orange/green signals slightly separated due to the gap between the two probes.



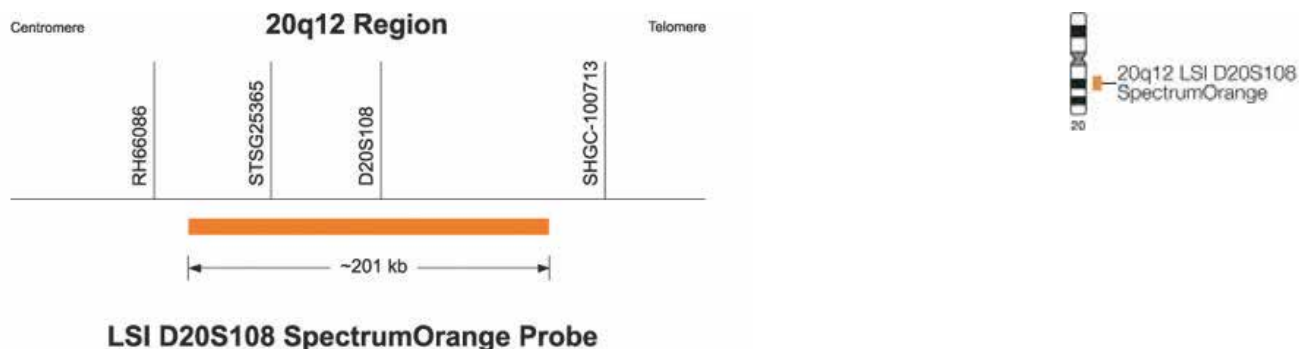
**Normal Hybridization:** Vysis LSI PDGFRB Dual Color Break Apart Rearrangement Probe hybridized to normal nuclei containing two fusion (2F) signal pattern.



**Abnormal Hybridization:** Vysis LSI PDGFRB Dual Color Break Apart Rearrangement Probe hybridized to abnormal nuclei containing one orange, one green and one fusion (1O1G1F) signal pattern and normal nuclei containing two fusion (2F) signal pattern.

Other Hematology

Vysis D20S108 FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329

**PRODUCT DESCRIPTION**

The Vysis LSI D20S108 fluorescence in situ hybridization (FISH) probe is intended to detect deletions of Vysis LSI D20S108 probe target locus on 20q12. Acquired deletions of the long arm of chromosome 20 are found in ~4% of patients with a myelodysplastic syndrome (MDS) and in 1 to 2% of patients with acute myeloid leukemia (AML) and myeloproliferative disorders (MPD). Cytogenetic analysis of del(20q) revealed that the deletion is variable in size, with a commonly deleted region (CDR) spanning 20q11.2 to q12. Within the commonly deleted segment lies the SRC oncogene and possibly other tumor suppressor genes. The CDR is defined as a 2.7 Mb segment in MPD and a 2.6 Mb segment in AML/MDS, with an overlapping region of 1.7 Mb. In a study of 36 MPD, MDS, and AML patients with del(20q), statistical analyses showed that patients with del(20q) as a sole cytogenetic aberration (favorable subgroup) live longer than patients with del(20q) and other chromosomal changes (poor prognosis subgroup). Among patients from MDS, MPD and MDS/MPD groups, Douet-Guilbert et al identified one commonly deleted region in all 38 investigated samples using FISH, including the Vysis LSI D20S108 FISH Probe. The Vysis LSI D20S108 Probe is an approximately 201 kb SpectrumOrange labeled probe and contains the D20S108 locus located on chromosome 20q12.

**RESULTS OF HYBRIDIZATION**

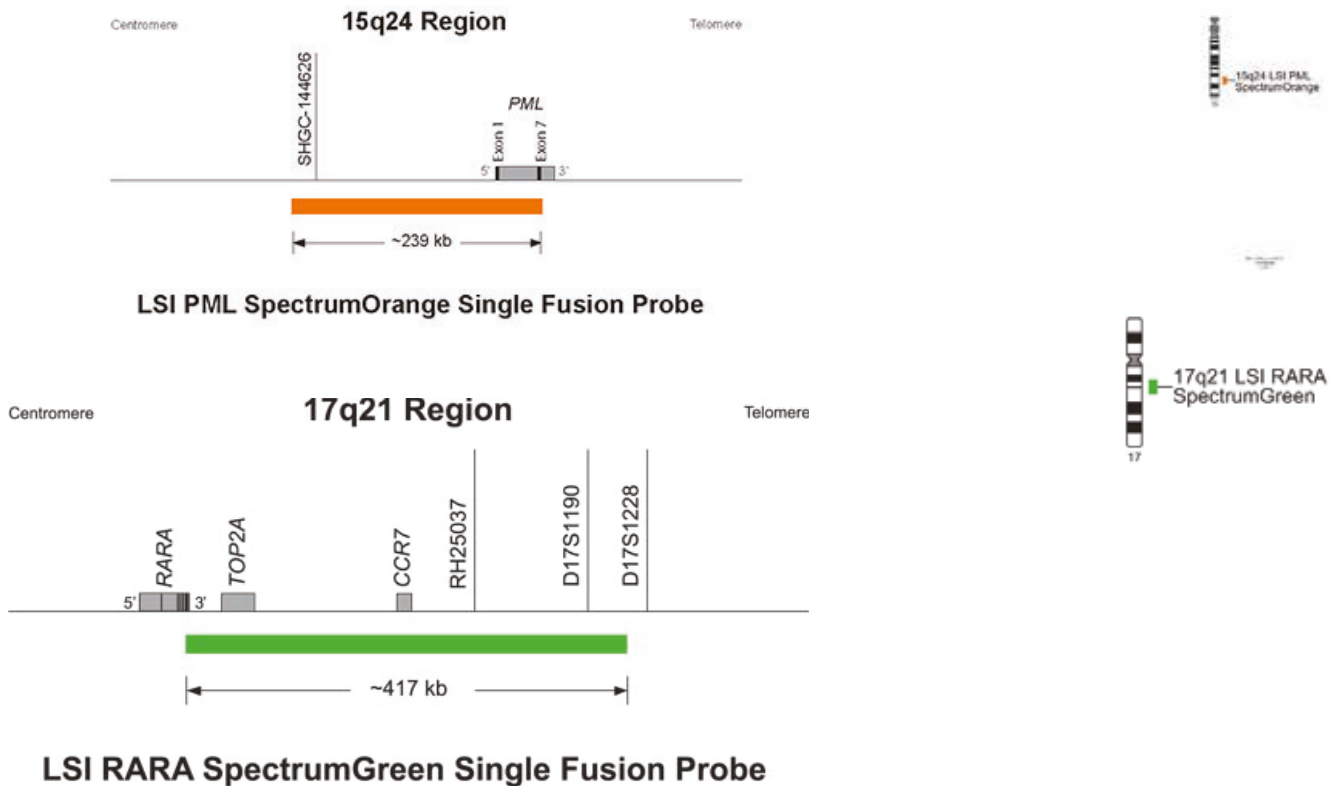
In a normal cell hybridized with the LSI D20S108 probe, the expected pattern is the two orange (2O) signal pattern. In an abnormal cell containing the deletion, the one orange (1O) signal pattern will be observed.



**Normal Hybridization:** LSI D20S108 Single Color Probe hybridized to normal cells showing the two orange (2O) signal pattern.

Other Hematology

Vysis PML/RARA Single Fusion FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis PML/RARA DC Single Fusion FISH Probe Kit (CE)	20 µL	05N45-020	00884999014947

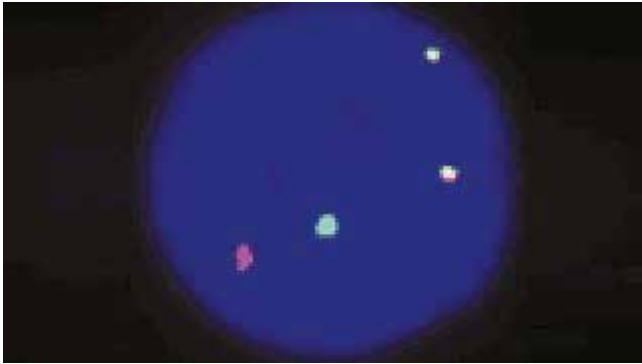
PRODUCT DESCRIPTION

The Vysis PML/RARA SF FISH Probes are intended to detect the t(15;17) (q22;q21.1) reciprocal translocation involving the PML and RARA gene regions.

The approximately 239 kb (chr15:71877721-72116436; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe lies centromeric to the PML gene. The approximately 417 kb (chr17:35762877-36180271; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe lies telomeric to the RARA gene.

## RESULTS OF HYBRIDIZATION

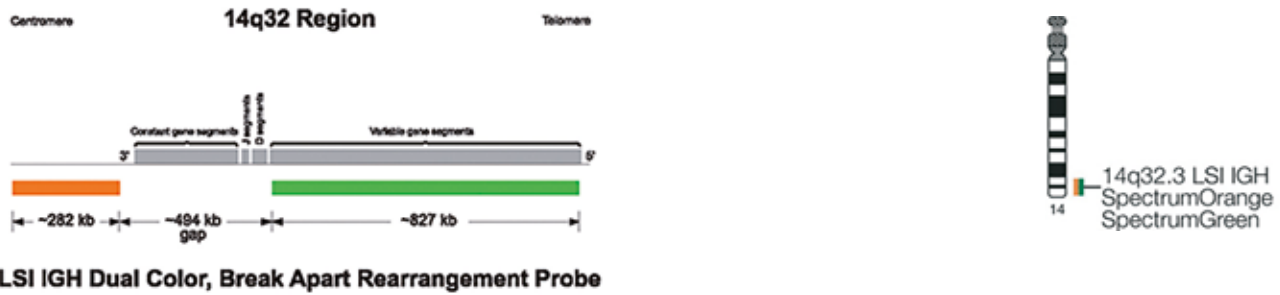
In a normal cell without the RUNX1/RUNX1T1 (also called AML1/ETO) fusion gene, two orange signals representing normal copies of RUNX1T1 and two green signals representing normal copies of RUNX1 are observed. In a cell containing the RUNX1/RUNX1T1 fusion gene, one orange (RUNX1T1), one green (RUNX1), and two orange/green (yellow) fusion signals are observed. The fusion signals represent the juxtaposition of the translocated portions of the two gene regions on the der(8) and the der(21). Variant RUNX1/RUNX1T1 signal patterns other than the most commonly observed one orange, one green, and two fusions (1O1G2F), may also occur.



**Abnormal Hybridization:** Vysis LSI RUNX1/RUNX1T1 Dual Color Dual Fusion Probes hybridized to an abnormal nucleus showing a one orange, one green and two fusion (1O1G2F) signal pattern.

Other Hematology

Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe



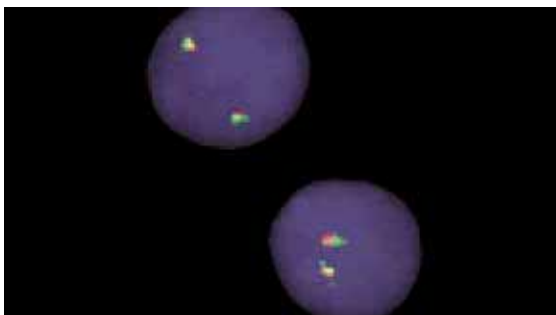
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L63-020	00884999012394

PRODUCT DESCRIPTION

Vysis LSI IGH Dual Color Break Apart Rearrangement Probe hybridizes to the band 14q32.3 (SpectrumGreen on the telomeric side and SpectrumOrange on the centromeric side of the IGH locus breakpoints). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

RESULTS OF HYBRIDIZATION

When hybridized to a normal nucleus, the LSI IGH Dual Color, Break Apart Rearrangement Probe produces a two orange/green (yellow) fusion (2F) signal pattern. As there is no probe targeted to the J or constant regions, a slight gap between the two differently colored probe signals may sometimes be observed in nuclei from normal cells. When the IGH Dual Color, Break Apart Translocation Probe is hybridized to a nucleus containing an IGH translocation, one orange, one green, and one orange/green fusion signal pattern is observed (1O1G1F). This signal pattern indicates that the genomic targets for the LSI IGHV and LSI IGH 3' flanking probes have been physically separated as a result of the translocation. As V(D)J rearrangements may occur on either, or both, of the translocated and non-translocated IGH alleles, the green LSI IGHV probe signal intensity on either, or both, of the alleles may be diminished as a result of probe target deletion in some samples.

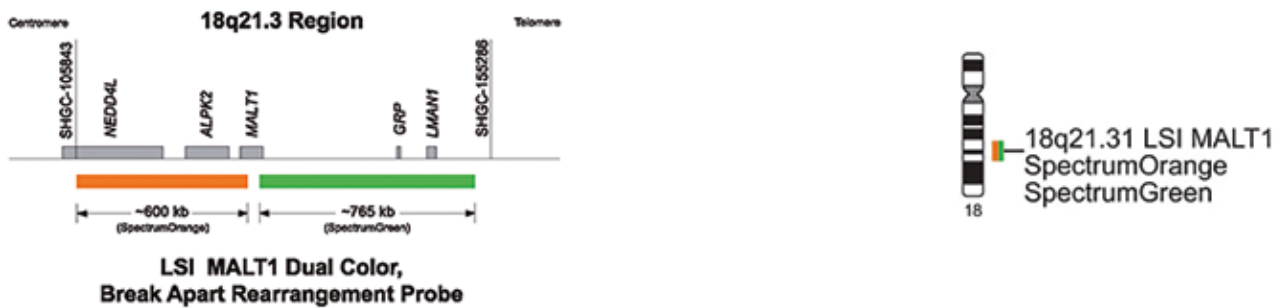


**Normal Hybridization:** LSI IGH Dual Color, Break Apart Rearrangement Probe hybridized to nuclei exhibiting the expected two fusion (2F) signal pattern.



Other Hematology

Vysis LSI MALT1 Break Apart FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe (CE)	20 µL	05N48-020	00884999012783

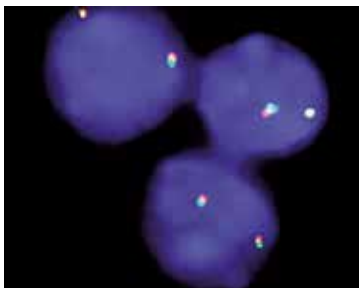
PRODUCT DESCRIPTION

The Vysis LSI MALT1 Break Apart FISH Probe Kit is intended to detect chromosomal rearrangements at the MALT1 locus on chromosome 18q21 using the fluorescence in situ hybridization (FISH) technique.

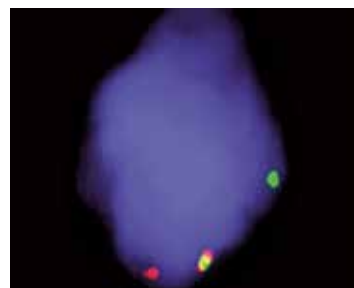
The approximately 600 kb (chr18:53915334-54515608; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange probe lies centromeric to the MALT1 breakpoint region. The approximately 765 kb (chr18:54554621-55319779; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen probe lies telomeric to the MALT1 breakpoint region.

RESULTS OF HYBRIDIZATION

In a normal cell that lacks a t(18q21) in the MALT1 gene region, a two fusion signal pattern will be observed reflecting the two intact copies of MALT1. In an abnormal cell with a t(18q21), a one fusion, one green, one orange signal pattern will be observed.



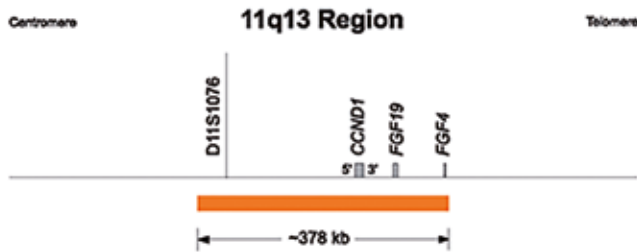
**Normal Hybridization:** Result of the hybridization of the Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe as observed in three normal interphase cells.



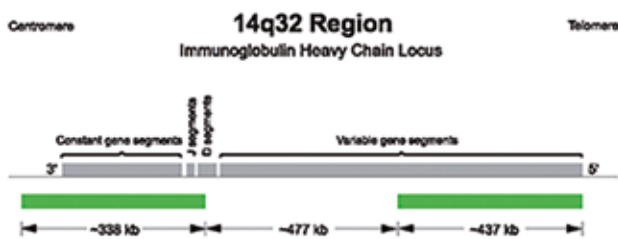
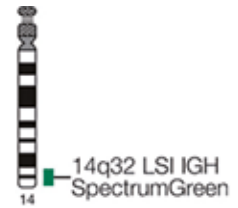
**Abnormal Hybridization:** An abnormal cell hybridized with the Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe. The cell in this image shows the one fusion, one orange, and one green signal pattern indicative of a rearrangement of one copy of the MALT1 gene region.

Other Hematology

Vysis LSI IGH/CCND1 DF FISH Probe Kit



**LSI CCND1 SpectrumOrange Probe**



**LSI IGH SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/CCND1 DF FISH Probe Kit (CE)	20 µL	08L58-020	00884999031487

PRODUCT DESCRIPTION

These fluorescence in situ hybridization (FISH) probes are intended to detect the t(11;14)(q13;q32) reciprocal translocation involving the IGH and CCND1 gene regions.

The approximately 378 kb SpectrumOrange probe spans the CCND1 gene (chr11:68927577-69305335; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The SpectrumGreen probe consists of 2 probes; 1 IGH probe hybridizes to an approximately 338 kb region spanning the IGH constant region (chr14:105087705-105425263; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and the other IGH probe is approximately 437 kb and hybridizes to the telomeric portion of the IGH variable region (chr14:105901997-106339460; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). There is an approximate 477 kb gap between the 2 probes.

### RESULTS OF HYBRIDIZATION

LSI IGH/CCND1 hybridized to a cell containing t(11;14) with breakpoints at the MTC on 11q13 and at the IGH J region on 14q32 is expected to result in a signal pattern of two orange/green (yellow) fusions, one on each of the abnormal chromosomes 11 and 14 and single orange and green signals from the normal chromosomes.

Due to the gap between the two probes in the IGH probe set, the normal IGH loci may sometimes appear as two slightly separated green signals. This gap may also cause a slight separation of the orange and green signals on the der(11) chromosome, in some instances. Analysis of t(11;14) samples suggests that due to variation in breakpoint location on 11q13 loss of V segments within the LSI IGH probe target, some samples containing t(11;14) might display signal patterns different than 1O1G2F.



**Abnormal Hybridization:** LSI IGH/CCND1 Dual Color, Dual Fusion Translocation Probe hybridized to an abnormal nucleus showing the common 1O1G2F signal pattern.

# VYSIS FISH PROBES: GENETICS

Identification and characterization of chromosome anomalies in preimplantation, prenatal, and postnatal genetics is critical for managing quality of life. FISH is a powerful tool for determining many types of chromosome anomalies. In addition to AneuVysion for rapid detection of aneuploidy in amniotic fluid samples, Abbott offers an expansive line of DNA FISH probes for preimplantation, prenatal and postnatal genetic testing and research.





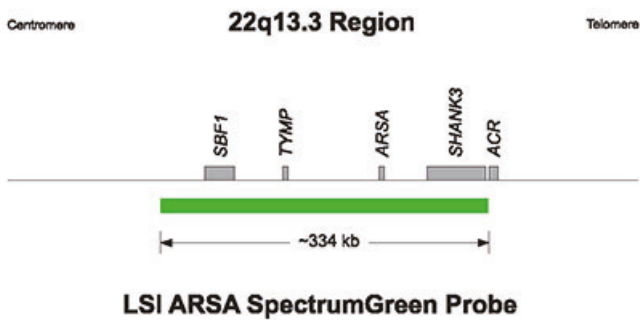
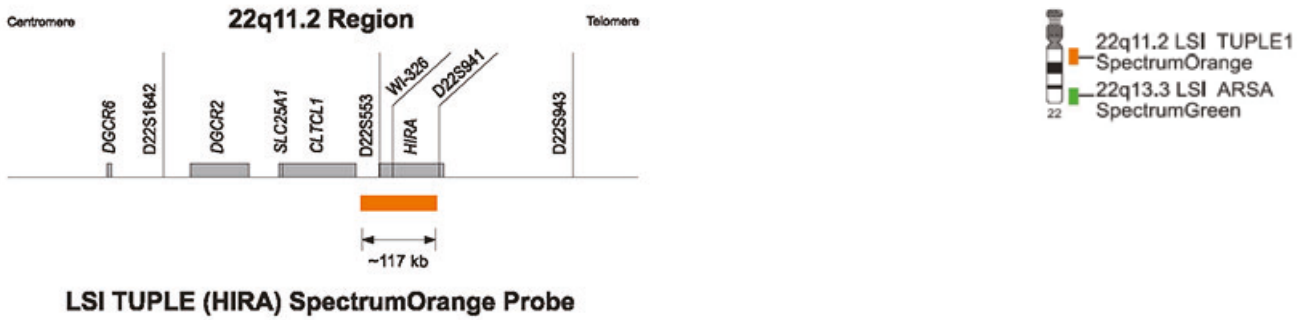
**ABBOTT PRODUCTS, POWERED BY VYSIS FISH TECHNOLOGY, PROVIDE THE FOLLOWING ADVANTAGES:**

- Rapid, sensitive, and specific detection and characterization of chromosome abnormalities
- Ability to test metaphase chromosomes from cultured samples and interphase cells from specimens that cannot be cultured
- Direct-labeled probes, as compared to indirect labeling methods, which provide:
  - Less background signal, thereby simplifying interpretation
  - Reduced costs associated with labeling reagents and technician time
- Dual and Tri Colored probe mixes for many microdeletion detection tests
- Each mix includes a probe specific for the critical chromosome region implicated in the disease of interest and a control probe to another region on the same chromosome labeled with a different fluorophore
- Inclusion of a control probe in most products ensure proper hybridization and facilitates identification of the chromosome of interest

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>POSTNATAL GENETICS - MICRODELETION SYNDROMES</b>				
Vysis DiGeorge Region LSI TUPLE1 (HIRA) SpectrumOrange/LSI ARSA SpectrumGreen Probe Set (CE)	20 µL	08L59-020	00884999031494	199
Vysis LSI SRY/CEP X FISH Probe Kit (CE)	10 µL	06N29-020	00884999025622	200
Vysis Prader-Willi/Angelman Region Probe - LSI D15S10 (SO)/Vysis CEP15 (D15Z1) (SA)/PML (SG) Kit (CE)	10µl	05N58-010	00884999015067	201
Vysis Prader-Willi/Angelman Region SNRPN/CEP15/PML FISH Probe Kit (CE)	10µl	06N27-010	00884999025608	203
<b>POSTNATAL GENETICS - TELOMERIC REGIONS - REARRANGEMENTS, DELETIONS, AND ADDITIONS</b>				
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425	204
<b>PRENATAL GENETICS</b>				
AneuVysion Multicolor DNA Probe Kit (CE)	10 Assays	05J38-010	00884999011694	205
AneuVysion Multicolor DNA Probe Kit (CE)	30 Assays	05J38-030	00884999011700	205
AneuVysion Multicolor DNA Probe Kit (CE)	50 Assays	05J38-050	00884999011717	205
Vysis LSI 13 (13q14) SpectrumGreen Probe (CE)	20 µL	08L67-020	00884999031579	207
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524	208
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593	210

Microdeletion Syndromes

Vysis DiGeorge Region LSI TUPLE 1 Spectrum Orange / LSI ARSA SpectrumGreen Probe Set



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis DiGeorge Region LSI TUPLE 1 (HIRA) SpectrumOrange/LSI ARSA SpectrumGreen Probe Set (CE)	20 µL	08L59-020	00884999031494

PRODUCT DESCRIPTION

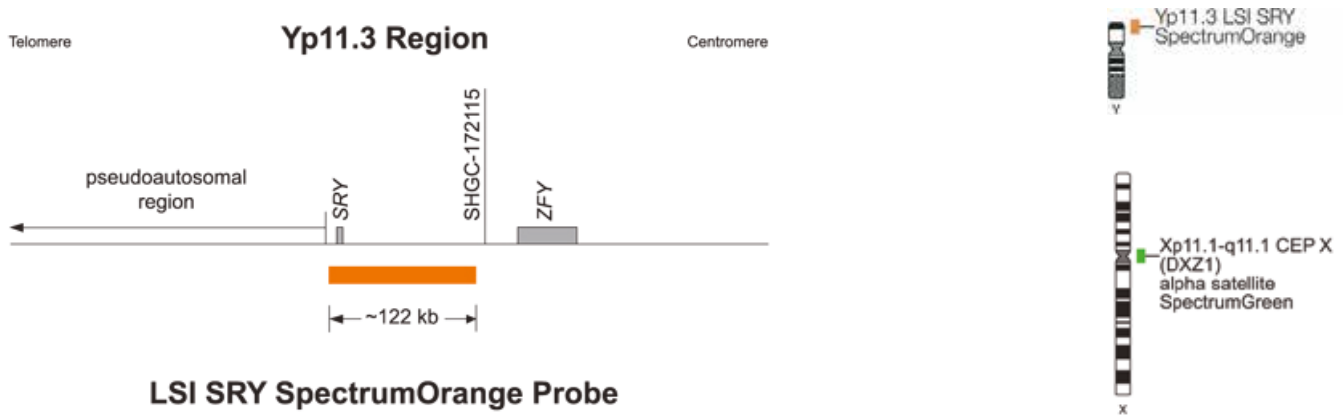
This fluorescence in situ hybridization (FISH) probe set is intended to detect deletions of the TUPLE1 (HIRA) gene region on chromosome 22q11.2 in metaphase chromosomes.

The 22q11.2 hybridization target of the 117 kb SpectrumOrange LSI TUPLE1 (HIRA) probe extends from 87 kb centromeric to the HIRA gene to a point within the gene 13 kb from its telomeric end. The 334 kb SpectrumGreen ARSA probe target begins centromeric to the SBF1 gene and ends at a point between the SHANK3 and ACR genes (22q13.3). On the March 2006 assembly of the human genome,<sup>7</sup> the TUPLE1 (HIRA) probe covers base pairs 17,669,001 to 17,785,903 and the ARSA probe spans from base pairs 49,187,176 to 49,520,735 on chromosome 22.



Microdeletion Syndromes

Vysis LSI SRY / CEP X FISH Probe Kit



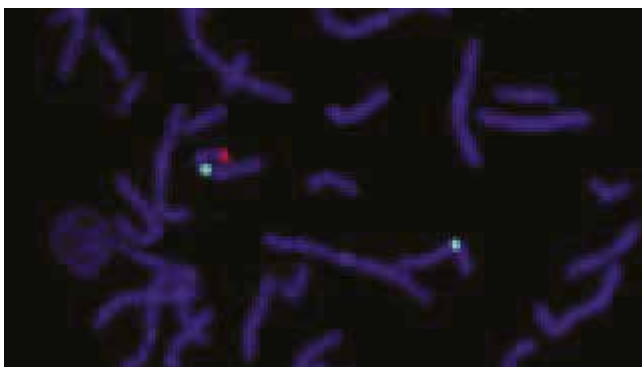
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SRY/CEP X FISH Probe Kit (CE)	20 µL	06N29-020	00884999025622

PRODUCT DESCRIPTION

The Vysis SRY/CEP X FISH Probe Kit is intended to detect relocation of the SRY gene region away from its normal location on the Y chromosome using the fluorescence in situ hybridization (FISH) technique.

The SpectrumGreen probe contains DXZ1 alpha satellite sequences and is specific to chromosome Xp11.1-q11.1. The SpectrumOrange probe spans approximately 122 kb (chrY:2707360- 2829346; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) and covers the SRY gene region.

RESULTS OF HYBRIDIZATION

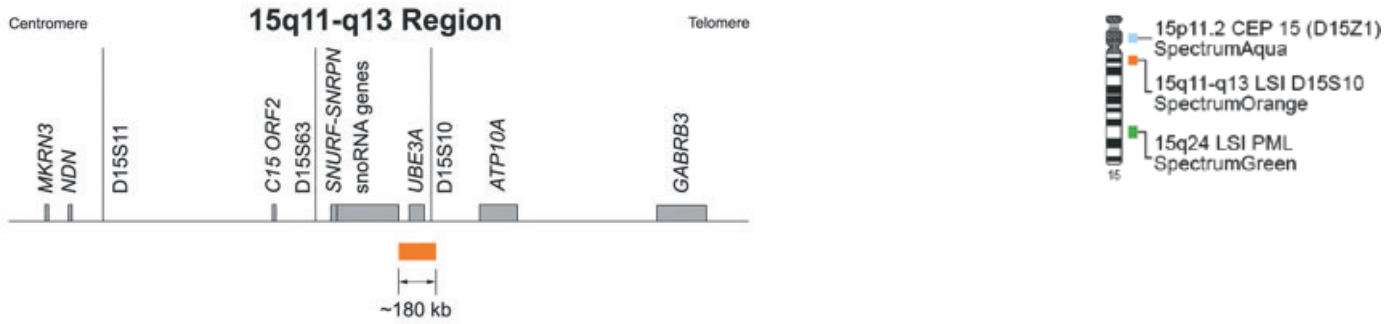


**Abnormal Hybridization:** LSI SRY SpectrumOrange/CEP X SpectrumGreen metaphase hybridization.

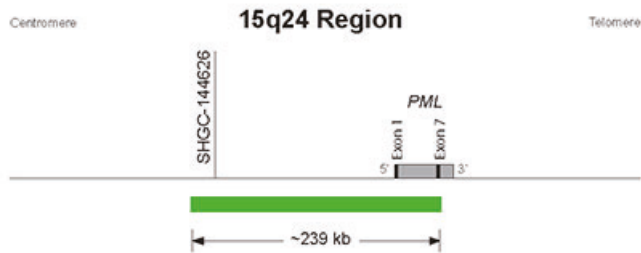


Microdeletion Syndromes

Vysis Prader-Willi/Angelman Region Probe - LSI D15S10 (SO) / Vysis CEP 15 (D15Z1) (SA)/PML (SG) Kit



**LSI D15S10 SpectrumOrange Probe**



**LSI PML SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Prader-Willi/Angelman Region Probe - LSI D15S10 (SO)/Vysis CEP 15 (D15Z1) (SA)/PML (SG) Kit (CE)	10 µL	05N58-010	00884999015067

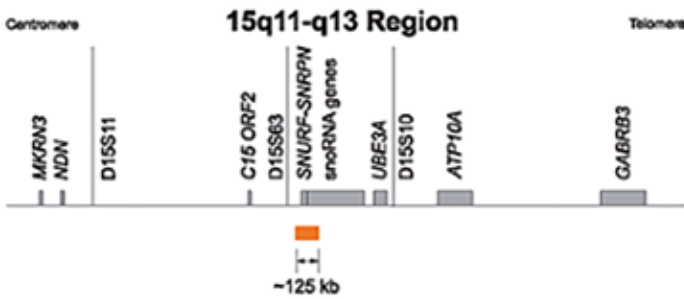
## PRODUCT DESCRIPTION

The Vysis Prader-Willi/Angelman Region D15S10/CEP 15/PML FISH Probe Kit is intended to detect the large common deletion involving the D15S10 marker on chromosome 15q11-q13 using the fluorescence in situ hybridization (FISH) technique.

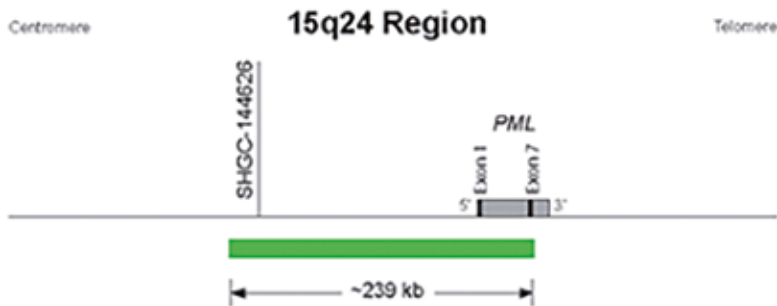
Deletion of a several megabase region within 15q11-q13 occurs in about 70% of patients with both Prader-Willi Syndrome (PWS) and Angelman Syndrome (AS). The D15S10 STS marker which falls within the UBE3A gene lies within this commonly deleted region. The Vysis Prader-Willi/Angelman Region SpectrumOrange D15S10 probe has been used in publications to detect interstitial deletions of the 15q11-q13 region. SpectrumAqua CEP 15 and SpectrumGreen PML, when combined with D15S10, produced signals at the expected loci on both chromosome 15 homologs in over 200 metaphase cells including those from normal, 15q11-q13 interstitial deletion, and 15q11-q13 duplication specimens. The approximately 180 kb (chr15:23083412-23263141; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI D15S10 probe spans the UBE3A gene on chromosome 15q11-q13. The approximately 239 kb (chr15:71877721-72116436; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen LSI PML probe is located on chromosome 15q22-q24. The SpectrumAqua CEP 15 (D15Z1) probe located on chromosome 15p11.2.

Microdeletion Syndromes

Vysis Prader-Willi/Angelman Region SNRPN / CEP 15 / PML FISH Probe Kit



**LSI SNRPN SpectrumOrange Probe**



**LSI PML SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Prader-Willi/Angelman Region SNRPN/CEP 15/PML FISH Probe Kit (CE)	10µL	06N27-010	00884999025608

**PRODUCT DESCRIPTION**

The Vysis Prader-Willi/Angelman Region SNRPN/CEP 15/PML FISH Probe Kit is intended to detect the large common deletion involving the SNRPN gene region on chromosome region 15q11-q13 using the fluorescence in situ hybridization (FISH) technique.

The approximately 125 kb (chr15:22716001-22841074; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumOrange LSI SNRPN probe spans the SNURF-SNRPN locus on chromosome region 15q11-q13. The approximately 239 kb (chr15:71877721-72116436; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>) SpectrumGreen LSI PML probe is located at the chromosome region 15q22-q24. The SpectrumAqua CEP 15 (D15Z1) probe is located at chromosome region 15p11.2.

Telomeric Regions: Rearrangements, Deletions and Additions

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425

PRODUCT DESCRIPTION

The Vysis ToTelVysion Multi-Color FISH Probe Kit is intended to detect chromosome-specific subtelomeric regions from metaphase regions of cultured peripheral blood using the fluorescence in situ hybridization (FISH) technique.

The Vysis ToTelVysion Multi-Color FISH Probe Kit consists of 41 TelVysion probes with CEP and LSI control probes to aid in interpretation (64 probes in total). The TelVysion probes are specific to: the p and q subtelomeres of the chromosomes 1 to 12 and 16 to 20; the q subtelomeres of the acrocentric chromosomes (13, 14, 15, 21, and 22); and the Xp/Yp and Xq/Yq pseudo-autosomal region subtelomeres. All but TelVysion 3q, TelVysion 4q, TelVysion 8p and TelVysion 17q cover a genomic region estimated to be within 300 kb of the first occurrence of substantial unique sequence for their respective chromosomes. TelVysion 3q, TelVysion 4q, TelVysion 8p and TelVysion 17q probes cover a genomic region estimated to be within 800 kb of the first occurrence of substantial unique sequence for their respective chromosomes.

In addition, several of the multi-color mixtures contain unique sequence LSI probes or alpha satellite CEP probes for purposes of identifying specific chromosomes within the mixtures. ToTelVysion probes are directly labeled with SpectrumOrange and/or SpectrumGreen fluorophores. The LSI and CEP probes are labeled with SpectrumAqua fluorophore. The probes in the ToTelVysion Probe Panel are provided in 15 mixtures, allowing analysis of 15 target areas on 3 slides prepared from 1 sample of cells in metaphase (5 hybridization target areas per slide, as selected by the user, based on cell distribution).

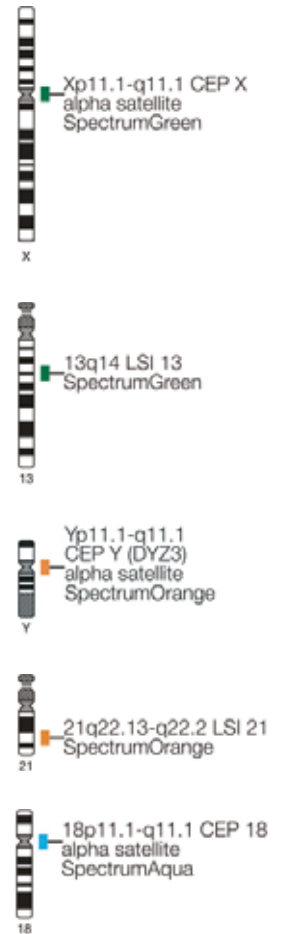
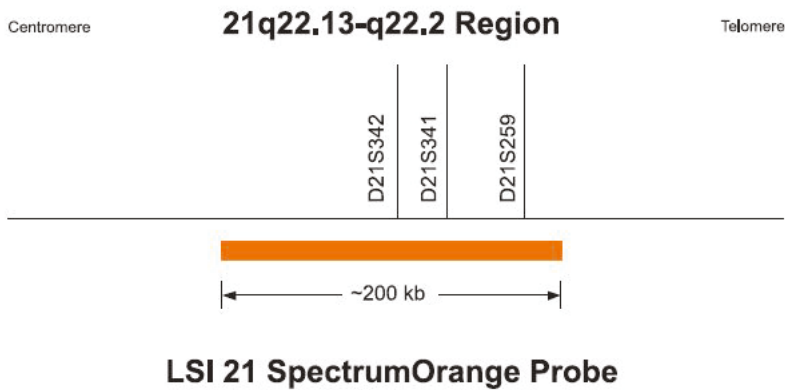
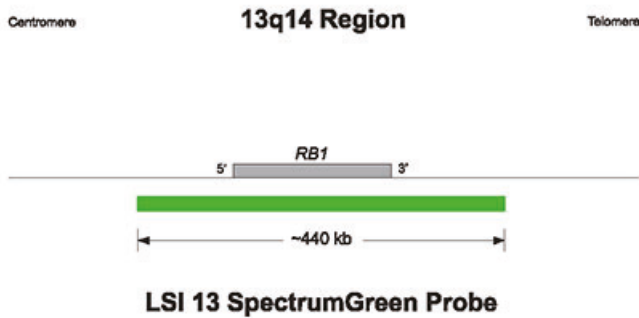
To learn more about Vysis ToTelVysion Multi-Color FISH Probe Kit please visit:

<https://www.molecular.abbott/int/en/products/genetics-genomics/vysis-totelvysion-probe-kit>

Prenatal Genetics

AneuVysion Multicolor DNA Probe Kit

# ANEUVYSION®



PRODUCT	QUANTITY	ORDER #	GTIN
AneuVysion Multicolor DNA Probe Kit <b>(CE)</b>	10 Assays	05J38-010	00884999011694
AneuVysion Multicolor DNA Probe Kit <b>(CE)</b>	30 Assays	05J38-030	00884999011700
AneuVysion Multicolor DNA Probe Kit <b>(CE)</b>	50 Assays	05J38-050	00884999011717

## PRODUCT DESCRIPTION

AneuVysion, which utilizes patented fluorescence in situ hybridization (FISH) technology applied to uncultured amniocytes, provides detection of trisomies 13, 18, and 21 (Down syndrome) and sex chromosome aneusomies in as little as 24 hours. Together these conditions account for nearly two thirds of all abnormalities identified at the time of amniocentesis, and 85-90% of clinically significant chromosomal abnormalities detected in live-born infants. Review of AneuVysion testing of over 29,000 amniotic fluid samples has found that the test is 99.9% accurate for the detection of trisomies 13, 18, 21, and aneusomies of X and Y. There are several benefits of the AneuVysion Test. Results are rapidly available, within 24 hours after the amniocentesis sample is received in the laboratory (rather than 7-22 days for routine chromosome analysis). In accordance with professional standards, the availability of AneuVysion results along with consistent clinical information (i.e., fetal anomalies detected by ultrasonography) allows for pregnancy management options that otherwise might not be available due to late gestational age. Finally, in the rare case of a culture failure when standard cytogenetic results cannot be obtained, information on chromosome number for the most likely aneusomies is available.

### PROBE MIXTURE #1

- CEP 18: D18Z1 alpha satellite DNA probe corresponding to 18p11.1-q11.1 labeled with SpectrumAqua
- CEP X: DXZ1 alpha satellite DNA probe corresponding to Xp11.1-q11.1 labeled with SpectrumGreen
- CEP Y: DYZ3 alpha satellite DNA probe corresponding to Yp11.1-q11.1 labeled with SpectrumOrange

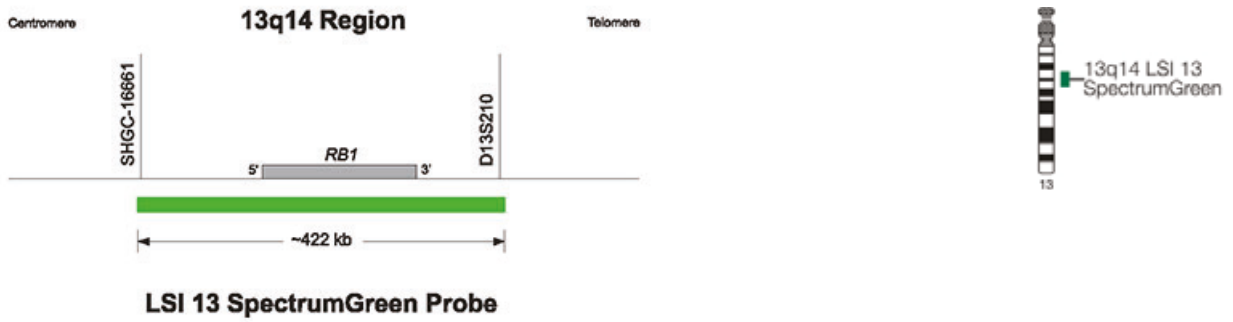
### PROBE MIXTURE #2

- LSI 18: DNA probe corresponding to the RB1 gene (13q14) labeled with SpectrumGreen.
- LSI 21: DNA probe corresponding to loci D21S259, D21S341, and D21S342(21q22.13-q22.2) labeled with SpectrumOrange.

Mixture #1 is complete with labeled probes and non-labeled blocking DNA in hybridization buffer.

Prenatal Genetics

Vysis LSI 13 (13q14) SpectrumGreen Probe

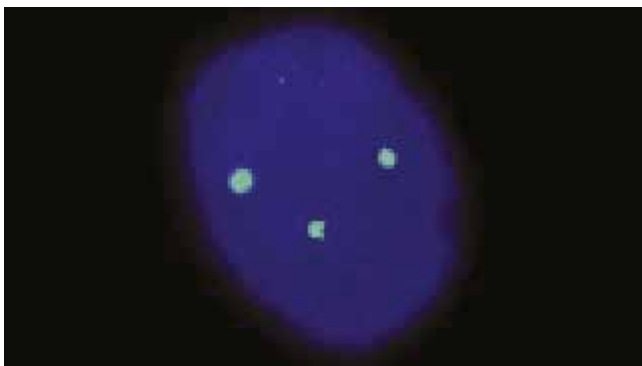


PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 (13q14) SpectrumGreen Probe (CE)	20 µL	08L67-020	00884999031579

PRODUCT DESCRIPTION

The Vysis LSI 13 (13q14) SpectrumGreen Probe is intended to detect changes (gains/losses) in the copy number of the LSI 13 probe target sequence on 13q14. The approximately 422 kb SpectrumGreen LSI 13 probe contains the complete RB1 gene and is located at 13q14.

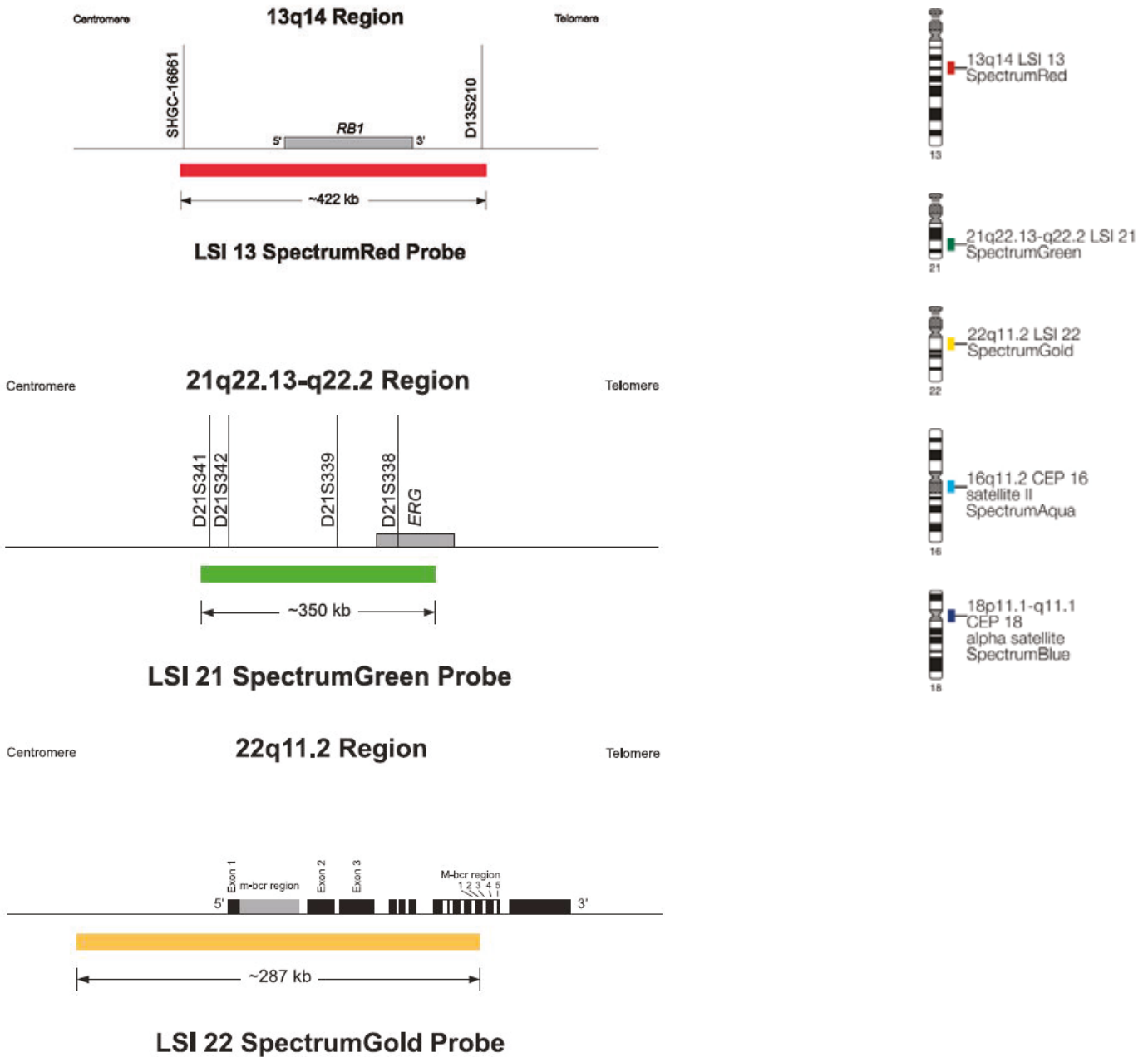
RESULTS OF HYBRIDIZATION



**Abnormal Hybridization:** LSI 13 (13q14) SpectrumGreen hybridized to an amniocyte. Three green signals indicate three copies of chromosome 13.

Prenatal Genetics

Vysis MultiVysion PB Multi-Color FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524



## PRODUCT DESCRIPTION

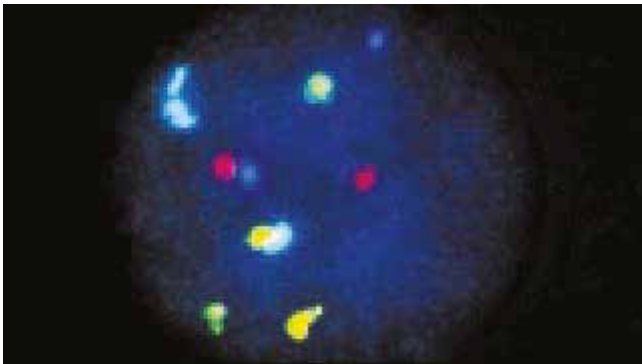
These fluorescence in situ hybridization (FISH) probes are intended to detect copy number of chromosomes 13, 16, 18, 21, and 22.

The Vysis MultiVysion PB Multi-color FISH Probe Kit consists of a 5-color, 5-probe mixture of DNA probe sequences homologous to specific regions on chromosomes 13, 16, 18, 21, and 22. Each of the probes is directly labeled with one of the Vysis fluorophores. The probe mixture consists of:

- LSI 13: DNA probe spanning the RB1 gene (13q14) labeled with SpectrumRed
- CEP 16: D16Z3 satellite II DNA probe (16q11.2) labeled with SpectrumAqua
- CEP 18: D18Z1 alpha satellite DNA probe (18p11.1-q11.1) labeled with SpectrumBlue
- LSI 21: DNA probe corresponding to loci D21S341, D21S342, D21S339, ERG, and D21S338 (21q22.13-21q22.2) labeled with SpectrumGreen
- LSI 22: DNA probe corresponding to the BCR locus (22q11.2) labeled with SpectrumGold.

Fluorophore-labeled human placenta DNA (SpectrumAqua) is also included in the probe mixture to provide a nuclear stain that does not interfere with the probe fluorescent signal. Unlabeled blockin DNA is also included with the probe to suppress sequences contained within the target loci that are common to other chromosomes. The LSI 13 probe target is approximately 422 kb in length (chr13:47633474-48055374; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The LSI 21 probe target is approximately 350 kb in length (chr21:39491467-39841748; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The LSI 22 probe target is approximately 287 kb in length (chr22:23345111-23632068; February 2009 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

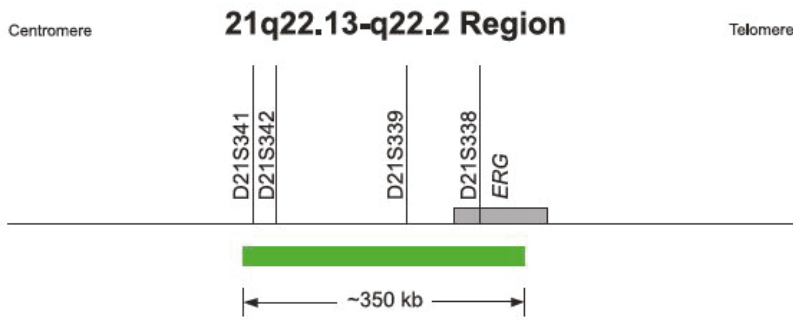
## RESULTS OF HYBRIDIZATION



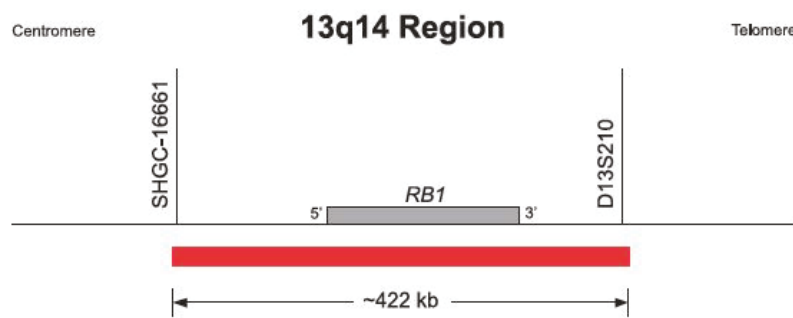
Normal Hybridisation: MultiVysion PB hybridized to an embryonic cell.

Prenatal Genetics

Vysis MultiVysion PGT Multi-Color Probe



**LSI 21 SpectrumGreen Probe**



**LSI 13 SpectrumRed Probe**



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593

## PRODUCT DESCRIPTION

These fluorescence in situ hybridization (FISH) probes are intended to detect copy number of chromosomes 13, 18, 21, X, and Y.

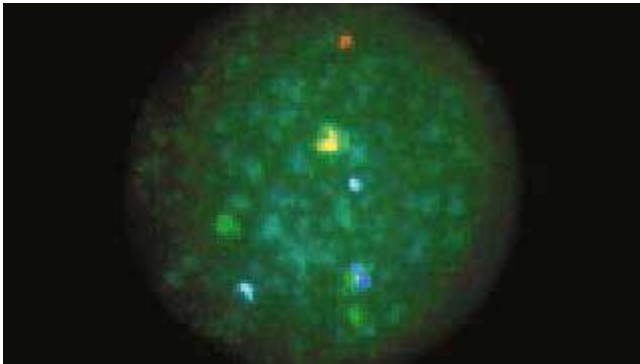
The Vysis MultiVysion PGT Multi-color Probes consist of a 5-color, 5-probe mixture of DNA probe sequences homologous to specific regions on chromosomes 13, 18, 21, X, and Y. Each of the probes is directly labeled with 1 of the Vysis fluorophores. The probe mixture consists of:

- LSI 13: DNA probe spanning the RB1 gene (13q14) labeled with SpectrumRed
- CEP 18: D18Z1 alpha satellite DNA probe (18p11.1-q11.1) labeled with SpectrumAqua
- LSI 21: DNA probe corresponding to loci D21S341, D21S342, D21S339, ERG, and D21S338 (21q22.13-21q22.2) labeled with SpectrumGreen


- CEP X: DXZ1 alpha-satellite DNA probe corresponding to Xp11.1-q11.1 labeled with SpectrumBlue
- CEP Y: DYZ3 alpha-satellite DNA probe corresponding to Yp11.1-q11.1 labeled with SpectrumGold

Fluorophore-labeled human placental DNA (SpectrumBlue, SpectrumAqua, SpectrumOrange) is also included in the probe mixture to provide a nuclear stain that does not interfere with the probe fluorescent signal. Unlabeled blocking DNA is also included with the probe to suppress sequences contained within the target loci that are common to other chromosomes. The LSI 13 probe target is approximately 422 kb in length (chr13:47633474-48055374; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The LSI 21 probe target is approximately 350 kb in length (chr21:39491467-39841748; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

## RESULTS OF HYBRIDIZATION



**Normal Hybridization:** MultiVysion PGT hybridized to an embryonic cell.

A photograph of a laboratory workspace. In the foreground, a white and black microscope is positioned on a desk. To its left, a test tube stands upright. In the background, a tablet computer is visible on the desk, and a person's hand is partially seen interacting with it. The scene is brightly lit, likely from a window out of frame.

# VYSIS FISH PROBES: NON-IVD PRODUCTS

214 Research Use Only (RUO)

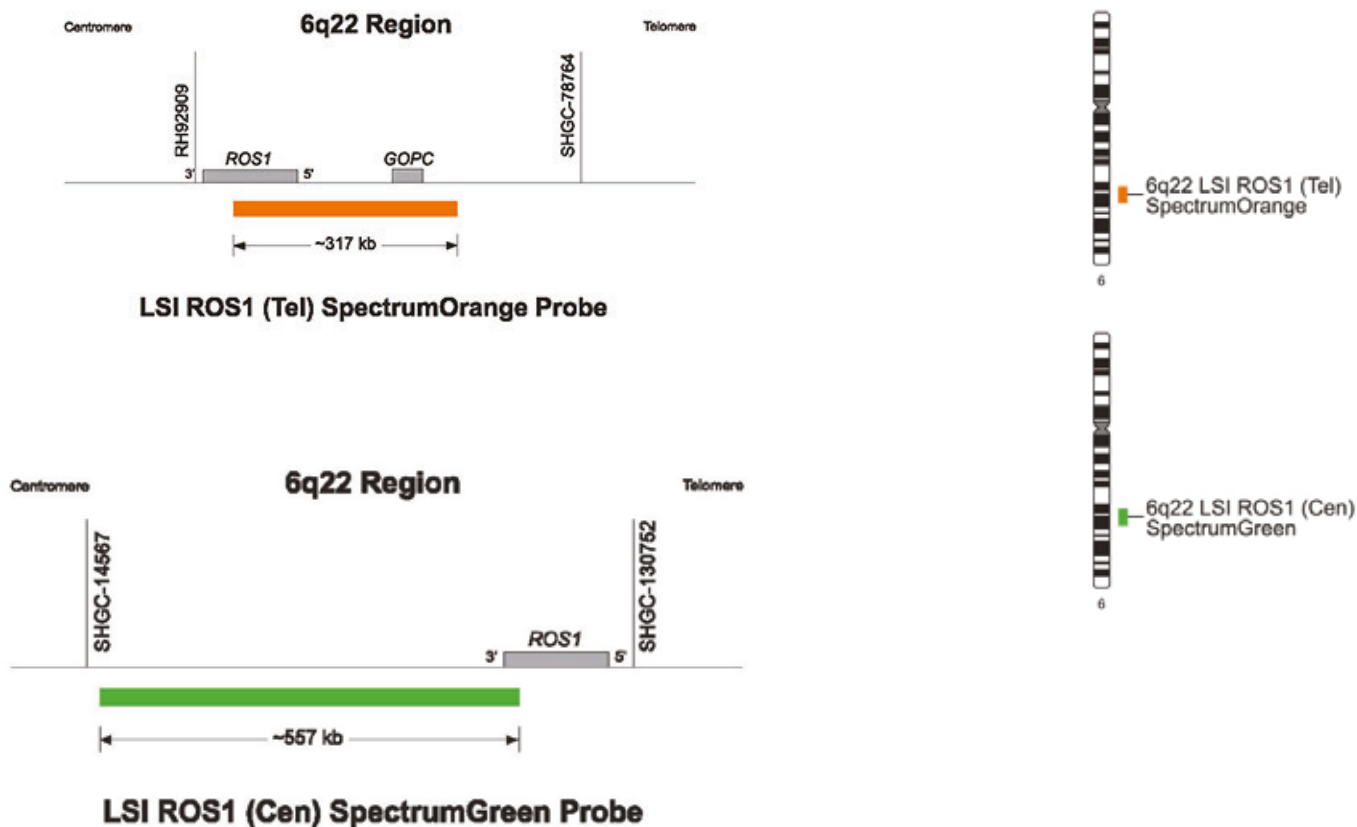
220 Analyte Specific Reagents (ASR)



# RESEARCH USE ONLY (RUO)

PRODUCT	QUANTITY	ORDER #	GTIN	PG
Vysis 6q22 ROS1 Break Apart FISH Probe (RUO)	20 µL	08N29-020	00884999037892	215
Vysis 8p12 FGFR1 SpectrumRed/CEP 8 SpectrumAqua FISH (RUO)	20 µL	08N21-060	00884999038059	216
Vysis 10q11 RET Break-Apart FISH Probe Kit (RUO)	20 µL	08N31-060	00884999038097	217
Vysis 10q26 FGFR2 SpectrumOrange / CEP 10 SpectrumGreen FISH Probe Kit (RUO)	20 µL	08N42-060	00884999042582	218
Vysis LSI (1q23) NTRK1 Break Apart FISH Probe Kit (RUO)	20 µL	08N43-060	00884999042612	219

# Vysis 6q22 ROS1 Break Apart FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis 6q22 ROS1 Break Apart FISH Probe (RUO)	20 µL	08N29-020	00884999037892

## PRODUCT DESCRIPTION

The Vysis 6q22 ROS1 Break Apart FISH Probe RUO Kit is comprised of two probes necessary to identify ROS1 genetic rearrangements.

- The Vysis 6q22 ROS1 (Tel) SpectrumOrange probe is approximately 317 kb in size and is positioned telomeric of the ROS1 gene.
- The Vysis 6q22 ROS1 (Cen) SpectrumGreen probe is approximately 557 kb in size and is positioned centromeric of the ROS1 gene.

The Vysis 6q22 ROS1 Break Apart FISH Probe RUO Kit is available for Research Use Only (RUO), and not for use in diagnostic procedures.

## Vysis 8p12 FGFR1 SpectrumRed / CEP 8 SpectrumAqua FISH Probe



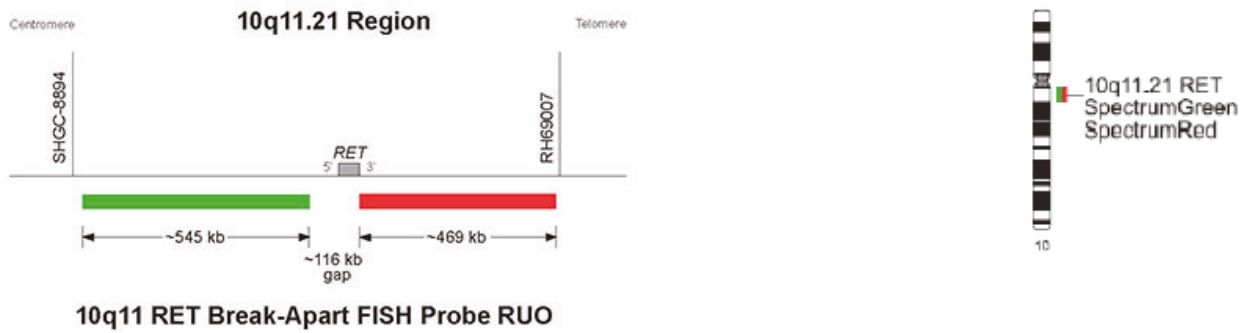
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis 8p12 FGFR1 SpectrumRed/CEP 8 SpectrumAqua FISH (RUO)	20 µL	08N21-060	00884999038059

### PRODUCT DESCRIPTION

The 8p12 FGFR1 SpectrumRed probe is approximately 531 kb in size and contains the entire FGFR1 gene. The CEP 8 SpectrumAqua probe hybridizes to the alpha satellite DNA located at the centromere of chromosome 8 (8p11.1-q11.1).



# Vysis 10q11 RET Break Apart FISH Probe Kit



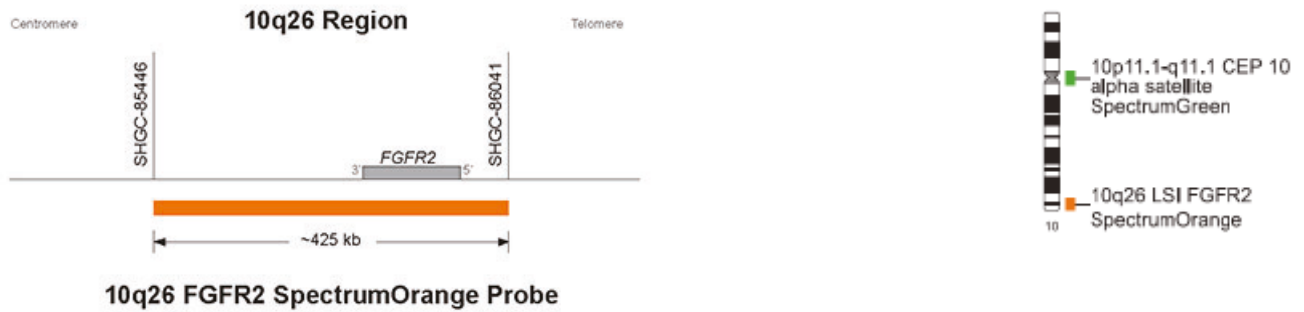
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis 10q11 RET Break-Apart FISH Probe Kit ( <b>RUO</b> )	20 µL	08N31-060	00884999038097

## PRODUCT DESCRIPTION

The 10q11 RET (Tel) SpectrumRed probe is approximately 469 kb in size and is positioned telomeric of the RET gene.

The 10q11 RET (Cen) SpectrumGreen probe is approximately 545 kb in size and is positioned centromeric of the RET gene.

# Vysis 10q26 FGFR2 SpectrumOrange/CEP 10 SpectrumGreen FISH Probe Kit

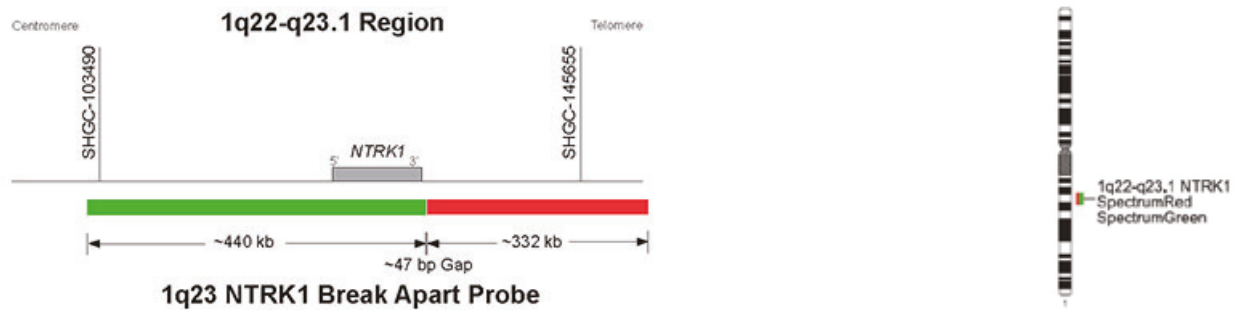


PRODUCT	QUANTITY	ORDER #	GTIN
Vysis 10q26 FGFR2 SpectrumOrange / CEP 10 SpectrumGreen FISH Probe Kit <b>(RUO)</b>	20 µL	08N42-060	00884999042582

## PRODUCT DESCRIPTION

The 10q26 FGFR2 SpectrumOrange probe is approximately 425 kb in size and contains the entire FGFR2 gene. The CEP 10 SpectrumGreen probe hybridizes to the alpha satellite DNA located at the centromere of chromosome 10 (10p11.1-q11.1).

## Vysis LSI 1q23 NTRK1 Break Apart FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI (1q23) NTRK1 Break Apart FISH Probe Kit (RUO)	20 $\mu$ L	08N43-060	00884999042612

### PRODUCT DESCRIPTION

The 1q23 NTRK1 (Tel) SpectrumRed probe is approximately 332 kb in size and is positioned telomeric of the NTRK1 gene. The 1q23 NTRK1 (Cen) SpectrumGreen probe is approximately 440 kb in size and contains the entire NTRK1 gene.

# ANALYTE SPECIFIC REAGENTS (ASR) BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>CHROMOSOME 1</b>				
Vysis TelVysion 1p SpectrumGreen (ASR)	5 µL	05J03-001	00884999009882	230
Vysis TelVysion 1q SpectrumOrange (ASR)	5 µL	05J04-001	00884999010246	230
Vysis CEP 1 (D1Z5) SpectrumOrange Probe (ASR)	20 µL	06J39-026	00884999020153	--
Vysis CEP 1 SpectrumOrange Probe (ASR)	20 µL	06J36-001	00884999019690	--
Vysis LSI 1p36 Microdeletion Region Probe (ASR)	20 µL	05J21-020	00884999011328	232
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (ASR)	200 µL	07J73-001	00884999029187	233
Vysis LSI MCL1 SpectrumGold Probe (ASR)	20 µL	07N97-020	00884999037489	235
Vysis LSI NTRK1 (Cen) SpectrumGreen Probe (ASR)	20 µL	08N43-030	00884999042605	236
Vysis LSI NTRK1 (Tel) SpectrumRed Probe (ASR)	20 µL	08N43-020	00884999042599	237
Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	01N24-020	00884999000605	238
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	239
<b>CHROMOSOME 2</b>				
Vysis TelVysion 2p SpectrumGreen (ASR)	5 µL	05J03-002	00884999009899	230
Vysis TelVysion 2q SpectrumOrange (ASR)	5 µL	05J04-002	00884999010253	230

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 2</b>				
Vysis CEP 2 (D2Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-027	00884999019867	--
Vysis LSI N-MYC SpectrumGreen/CEP 2 SpectrumOrange Probes (ASR)	20 µL	07J72-001	00884999029156	240
Vysis LSI N-MYC (2p24.1) SpectrumOrange Probe (ASR)	20 µL	05J50-011	00884999011984	241
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	242
<b>CHROMOSOME 3</b>				
Vysis TelVysion 3p SpectrumGreen (ASR)	5 µL	05J03-003	00884999009905	230
Vysis TelVysion 3q SpectrumOrange (ASR)	5 µL	05J04-003	00884999010260	230
Vysis CEP 3 (D3Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-003	00884999019706	--
Vysis LSI BCL6 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	01N23-020	00884999000582	243
Vysis LSI PIK3CA SpectrumGreen Probe (ASR)	20 µL	06N10-001	00884999034891	244
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	245
<b>CHROMOSOME 4</b>				
Vysis TelVysion 4p SpectrumGreen (ASR)	5 µL	05J03-004	00884999009912	230
Vysis TelVysion 4q SpectrumOrange (ASR)	5 µL	05J04-004	00884999010277	230
Vysis CEP 4 SpectrumAqua Probe (ASR)	20 µL	06J54-004	00884999021709	--
Vysis CEP 4 SpectrumGreen Probe (ASR)	20 µL	06J37-004	00884999019935	--
Vysis CEP 4 SpectrumOrange Probe (ASR)	20 µL	06J36-004	00884999019713	--
Vysis LSI 4q12 Tri-Color Rearrangement FISH Probe Kit (ASR)	20 µL	01N79-020	00884999001039	246
Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes (ASR)	20 µL	05J74-001	00884999012417	247
Vysis Wolf-Hirschhorn Region LSI WHS SpectrumOrange/CEP 4 SpectrumGreen Probes (ASR)	20 µL	05J29-074	00884999011533	248
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	249
<b>CHROMOSOME 5</b>				
Vysis TelVysion 5p SpectrumGreen (ASR)	5 µL	05J03-005	00884999009929	230
Vysis TelVysion 5q SpectrumOrange (ASR)	5 µL	05J04-005	00884999010284	230
Vysis Cri-du-Chat Region Probe - LSI D5S23, D5S721 SpectrumGreen Probe (ASR)	20 µL	05J20-025	00884999011298	250
Vysis Cri-du-Chat Region Probe - LSI EGR1 SpectrumOrange/ D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J76-001	00884999012455	251

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 5</b>				
Vysis LSI CSF1R SpectrumOrange/ D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J60-001	00884999012189	252
Vysis LSI D5S23, D5S721 SpectrumGreen Probe (ASR)	20 µL	04N30-020	00884999008274	253
Vysis Sotos Region LSI NSD1 SpectrumOrange/LSI D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J48-007	00884999011915	254
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	255
<b>CHROMOSOME 6</b>				
Vysis TelVysion 6p SpectrumGreen (ASR)	5 µL	05J03-006	00884999009936	230
Vysis TelVysion 6q SpectrumOrange (A SR)	5 µL	05J04-006	00884999010291	230
Vysis CEP 6 (D6Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-006	00884999021716	--
Vysis CEP 6 (D6Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-006	00884999019942	--
Vysis CEP 6 (D6Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-006	00884999019720	--
Vysis LSI DEK SpectrumGreen Probe (ASR)	20 µL	09N24-020	00884999046610	256
Vysis LSI MYB (6q23) SpectrumGold Probe (ASR)	20 µL	04N33-020	00884999008328	257
Vysis LSI MYB (6q23) SpectrumAqua Probe (ASR)	20 µL	07J86-011	00884999029392	258
Vysis LSI ROS1 (Cen) SpectrumGreen Probe (ASR)	20 µL	08N07-020	00884999037120	259
Vysis LSI ROS1 (Tel) SpectrumOrange Probe (ASR)	20 µL	08N05-020	00884999037458	260
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	261
<b>CHROMOSOME 7</b>				
Vysis TelVysion 7p SpectrumGreen (ASR)	5 µL	05J03-007	00884999009943	230
Vysis TelVysion 7q SpectrumOrange (ASR)	5 µL	05J04-007	00884999010307	230
Vysis CEP 7 (D7Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-007	00884999021723	--
Vysis CEP 7 (D7Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-007	00884999019959	--
Vysis CEP 7 (D7Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-007	00884999019737	--
Vysis LSI D7S486 SpectrumOrange/ CEP 7 SpectrumGreen Probes (ASR)	20 µL	05J61-001	00884999012196	262
Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes (ASR)	20 µL	05J85-001	00884999012752	263
Vysis LSI EGFR SpectrumGreen Probe (ASR)	20 µL	07N98-020	00884999037496	264
Vysis LSI EGFR SpectrumRed Probe (ASR)	20 µL	04N31-020	00884999008281	265

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 7</b>				
Vysis LSI ETV1 (Cen) SpectrumGreen Probe (ASR)	20 µL	07N71-020	00884999036499	266
Vysis LSI ETV1 (Tel) SpectrumRed Probe (ASR)	20 µL	07N72-020	00884999036482	267
Vysis MET SpectrumRed Probe (ASR)	20 µL	06N05-001	00884999024977	268
Vysis Williams Region Probe - LSI ELN SpectrumOrange/LSI D7S486, D7S522 SpectrumGreen Probes (ASR)	20 µL	05J30-045	00884999011564	269
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	270
<b>CHROMOSOME 8</b>				
Vysis TelVysion 8p SpectrumGreen (ASR)	5 µL	05J03-008	00884999009950	230
Vysis TelVysion 8q SpectrumOrange (ASR)	5 µL	05J04-008	00884999010314	230
Vysis CEP 8 (D8Z2) SpectrumAqua Probe (ASR)	20 µL	06J54-008	00884999021730	--
Vysis CEP 8 (D8Z2) SpectrumGreen Probe (ASR)	20 µL	06J37-008	00884999019966	--
Vysis LSI FGFR1 SpectrumRed Probe (ASR)	20 µL	08N21-020	00884999038042	271
Vysis LSI LPL SpectrumOrange Probe (ASR)	20 µL	04N34-020	00884999008335	272
Vysis LSI MYC Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J91-001	00884999012844	273
Vysis LSI MYC (8q24) SpectrumAqua Probe (ASR)	20 µL	02N22-020	00884999002739	274
Vysis LSI MYC SpectrumGold Probe (ASR)	20 µL	04N35-020	00884999008342	275
Vysis LSI MYC SpectrumGreen Probe (ASR)	20 µL	04N36-020	00884999008359	276
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	277
<b>CHROMOSOME 9</b>				
Vysis TelVysion 9p SpectrumGreen (ASR)	5 µL	05J03-009	00884999009967	230
Vysis TelVysion 9q SpectrumOrange (ASR)	5 µL	05J04-009	00884999010321	230
Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes (ASR)	20 µL	05J51-001	00884999012004	278
Vysis CEP 9 SpectrumAqua Probe (ASR)	20 µL	06J54-009	00884999021747	--
Vysis CEP 9 SpectrumGreen Probe (ASR)	20 µL	06J37-009	00884999019973	--
Vysis CEP 9 SpectrumOrange Probe (ASR)	20 µL	06J36-009	00884999019744	--
Vysis LSI 9q34 SpectrumAqua Probe (ASR)	20 µL	05J79-011	00884999012530	279
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	05J82-001	00884999012592	280
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	50 µL	05J82-010	00884999012615	280

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 9</b>				
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe (ASR)	20 µL	05J77-001	00884999012462	281
Vysis LSI CDKN2A SpectrumOrange Probe (ASR)	20 µL	05J51-003	00884999043664	282
Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes (ASR)	20 µL	05J51-001	00884999012004	283
Vysis LSI NUP214 SpectrumOrange Probe (ASR)	20 µL	09N25-020	00884999046634	284
Vysis LSI p16 (9p21) SpectrumRed Probe (ASR)	20 Assays	02N21-020	00884999002722	285
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	286
<b>CHROMOSOME 10</b>				
Vysis TelVysion 10p SpectrumGreen (ASR)	5 µL	05J03-010	00884999009974	230
Vysis TelVysion 10q SpectrumOrange (ASR)	5 µL	05J04-010	00884999010338	230
Vysis CEP 10 SpectrumAqua Probe (ASR)	20 µL	06J54-010	00884999021754	--
Vysis CEP 10 SpectrumGreen Probe (ASR)	20 µL	06J37-010	00884999019980	--
Vysis CEP 10 SpectrumOrange Probe (ASR)	20 µL	06J36-010	00884999019751	--
Vysis LSI FGFR2 SpectrumOrange Probe (ASR)	20 µL	08N42-020	00884999042575	287
Vysis LSI PTEN SpectrumGold Probe (ASR)	20 µL	07N73-020	00884999036451	288
Vysis LSI PTEN SpectrumOrange Probe (ASR)	20 µL	07J74-003	00884999043268	289
Vysis LSI RET (Cen) SpectrumGreen Probe (ASR)	20 µL	08N31-040	00884999038080	290
Vysis LSI RET (Tel) SpectrumOrange Probe (ASR)	20 µL	08N31-030	00884999038073	291
Vysis LSI RET (Tel) SpectrumRed Probe (ASR)	20 µL	08N31-020	00884999038066	292
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	293
<b>CHROMOSOME 11</b>				
Vysis TelVysion 11p SpectrumGreen (ASR)	5 µL	05J03-011	00884999009981	230
Vysis TelVysion 11q SpectrumOrange (ASR)	5 µL	05J04-011	00884999010345	230
Vysis CEP 11 (D11Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-011	00884999021761	--
Vysis CEP 11 (D11Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-011	00884999019997	--
Vysis CEP 11 (D11Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-011	00884999019768	--
Vysis LSI ATM (11q22.3) SpectrumOrange Probe (ASR)	20 µL	05J64-011	00884999012233	294
Vysis LSI ATM SpectrumOrange/CEP 11 SpectrumGreen Probes (ASR)	20 µL	01N18-020	00884999000537	295
Vysis LSI CCND1 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J96-001	00884999013445	296



PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 11</b>				
Vysis LSI CCND1 SpectrumOrange/ CEP 11 SpectrumGreen Probes (ASR)	20 µL	05J41-001	00884999011755	297
Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes (ASR)	20 µL	05J72-001	00884999012370	298
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J90-001	00884999012837	299
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	300
<b>CHROMOSOME 12</b>				
Vysis TelVysion 12p SpectrumGreen (ASR)	5 µL	05J03-012	00884999009998	230
Vysis TelVysion 12q SpectrumOrange (ASR)	5 µL	05J04-012	00884999010352	230
Vysis CEP 12 (D12Z3) SpectrumGreen Probe (ASR)	20 µL	06J37-012	00884999020009	--
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Single Fusion Probe (ASR)	20 µL	05J62-001	00884999012202	301
Vysis LSI MDM2 SpectrumOrange Probe (ASR)	20 µL	01N15-020	00884999000513	302
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	303
<b>CHROMOSOME 13</b>				
Vysis TelVysion 13q SpectrumOrange (ASR)	5 µL	05J04-013	00884999010369	230
Vysis LSI (13q34) SpectrumGreen Probe (ASR)	20 µL	05J80-011	00884999012561	304
Vysis LSI 13 (13q14) SpectrumGreen Probe (ASR)	20 µL	05J14-028	00884999011199	305
Vysis LSI 13 (RB1) 13q14 SpectrumOrange Probe (ASR)	20 µL	05J15-011	00884999011212	306
Vysis LSI D13S319 (13q14.3) SpectrumOrange Probe (ASR)	20 µL	05J86-011	00884999012769	307
Vysis LSI FOXO1 (Cen) SpectrumGreen Probe (ASR)	20 µL	05J48-014	00884999041516	308
Vysis LSI FOXO1 (Tel) SpectrumOrange Probe (ASR)	20 µL	05J48-013	00884999041509	309
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	310
<b>CHROMOSOME 14</b>				
Vysis TelVysion 14q SpectrumOrange (ASR)	5 µL	05J04-014	00884999010376	230
Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J73-001	00884999012394	311
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes (ASR)	20 µL	05J71-001	00884999012356	312
Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes (ASR)	20 µL	05J72-001	00884999012370	313
Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes (ASR)	20 µL	05J74-001	00884999012417	314
Vysis LSI IGH/MAF Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-004	00884999012691	315
Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-001	00884999012660	316

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 14</b>				
Vysis LSI TRA/D Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	01N78-020	00884999001015	317
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	318
<b>CHROMOSOME 15</b>				
Vysis TelVysion 15q SpectrumOrange (ASR)	5 µL	05J04-015	00884999010383	230
Vysis CEP 15 (D15Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-015	00884999021785	--
Vysis CEP 15 (D15Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-015	00884999020023	--
Vysis CEP 15 (D15Z4) SpectrumOrange Probe (ASR)	20 µL	06J36-015	00884999019799	--
Vysis LSI PML/RARA Dual Color, Dual Fusion Probe (ASR)	20 µL	05J70-001	00884999012325	319
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257	320
Vysis Prader-Willi/Angelman Region LSI D15S11 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J19-014	00884999011274	321
Vysis Prader-Willi/Angelman Region LSI GABRB3 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J22-015	00884999011366	322
Vysis LSI SNRPN SpectrumOrange/CEP 15 SpectrumAqua/PML SpectrumGreen Probes	10 µL	01N12-010	00884999000476	323
Vysis LSI D15S10 SO/CEP 15 SA/PML SGN Probes	10 µL	01N13-010	00884999000483	324
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999025608	325
<b>CHROMOSOME 16</b>				
Vysis TelVysion 16p SpectrumGreen (ASR)	5 µL	05J03-016	00884999010031	230
Vysis TelVysion 16q SpectrumOrange (ASR)	5 µL	05J04-016	00884999010390	230
Vysis CEP 16 (D16Z3) SpectrumAqua Probe (ASR)	20 µL	05J09-016	00884999010970	--
Vysis CEP 16 (D16Z3) SpectrumGreen Probe (ASR)	20 µL	05J10-016	00884999011052	--
Vysis CEP 16 (D16Z3) SpectrumOrange Probe (ASR)	20 µL	05J08-016	00884999010871	--
Vysis LSI CBF B Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J65-001	00884999012240	326
Vysis LSI IGH/MAF Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-004	00884999012691	327
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	328
<b>CHROMOSOME 17</b>				
Vysis TelVysion 17p SpectrumGreen (ASR)	5 µL	05J03-017	00884999010048	230
Vysis TelVysion 17q SpectrumOrange (ASR)	5 µL	05J04-017	00884999010406	230

VYSIS FISH PROBES – ANALYTE SPECIFIC REAGENT

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 17</b>				
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (ASR)	20 µL	05J52-011	00884999012035	329
Vysis LSI TP53 SpectrumOrange/CEP 17 SpectrumGreen Probes (ASR)	20 µL	01N17-020	00884999002746	330
Vysis CEP 17 (D17Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-017	00884999020047	--
Vysis CEP 17 (D17Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-017	00884999019812	--
Vysis CEP17 SpectrumAqua (ASR)	20 µL	06J38-017	00884999020139	--
Vysis LSI ERBB2 (17q12) SpectrumGreen Probe (ASR)	20 µL	02N20-020	00884999002715	331
Vysis LSI MAPT 17q21 SpectrumGreen Probe (ASR)	10 µL	02N19-010	00884999002708	332
Vysis LSI PML/RARA Dual Color, Dual Fusion Probe (ASR)	20 µL	05J70-001	00884999012325	333
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (ASR)	20 µL	05J52-011	00884999012035	334
Vysis Miller-Dieker Region/Isolated Lissencephaly LSI LIS1 SpectrumOrange/ RARA SpectrumGreen Probes (ASR)	20 µL	05J88-001	00884999012790	335
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257	336
Vysis Smith-Magenis Region LSI SMS SpectrumOrange/RARA SpectrumGreen Probes (ASR)	20 µL	05J25-003	00884999011427	337
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	338
<b>CHROMOSOME 18</b>				
Vysis TelVysion 18p SpectrumGreen (ASR)	5 µL	05J03-018	00884999010055	230
Vysis TelVysion 18q SpectrumOrange (ASR)	5 µL	05J04-018	00884999010413	230
Vysis CEP 18 (D18Z1) SpectrumAqua Probe (ASR)	20 µL	05J09-018	00884999010987	--
Vysis CEP 18 (D18Z1) SpectrumGreen Probe (ASR)	20 µL	05J10-018	00884999011069	--
Vysis CEP 18 (D18Z1) SpectrumOrange Probe (ASR)	20 µL	05J08-018	00884999010888	--
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes (ASR)	20 µL	05J71-001	00884999012356	339
Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-001	00884999012660	340
Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J87-001	00884999012783	341
Vysis LSI SS18 (18q11.2) Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J84-006	00884999012714	342
Vysis LSI SS18 (Cen) SpectrumGreen Probe (ASR)	20 µL	05J84-010	00884999043251	343
Vysis LSI SS18 (Tel) SpectrumOrange Probe (ASR)	20 µL	05J84-009	00884999043244	344
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	345

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 19</b>				
Vysis TelVysion 19p SpectrumGreen (ASR)	5 µL	05J03-019	00884999010062	230
Vysis TelVysion 19q SpectrumOrange (ASR)	5 µL	05J04-019	00884999010420	230
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (ASR)	200 µL	07J73-001	00884999029187	346
Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	01N24-020	00884999000605	348
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	349
<b>CHROMOSOME 20</b>				
Vysis TelVysion 20p SpectrumGreen (ASR)	5 µL	05J03-020	00884999010079	230
Vysis TelVysion 20q SpectrumOrange (ASR)	5 µL	05J04-020	00884999010437	230
Vysis CEP 20 (D20Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-020	00884999019836	--
Vysis LSI ZNF217 SpectrumGold Probe (ASR)	20 µL	02N23-020	00884999002746	350
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	351
<b>CHROMOSOME 21</b>				
Vysis TelVysion 21q SpectrumOrange (ASR)	5 µL	05J04-021	00884999010444	230
Vysis LSI 21 SpectrumOrange Probe (ASR)	20 µL	05J13-012	00884999011175	352
Vysis LSI ERG (Cen) SpectrumRed Probe (ASR)	20 µL	07N69-020	00884999036475	353
Vysis LSI ERG (Tel) SpectrumGreen Probe (ASR)	20 µL	07N70-020	00884999036468	354
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Probe Set (ASR)	20 µL	05J62-001	00884999012202	355
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	356
<b>CHROMOSOME 22</b>				
Vysis TelVysion 22q SpectrumOrange (ASR)	5 µL	05J04-022	00884999010451	230
Vysis DiGeorge Region LSI N25 SpectrumOrange/LSI ARSA SpectrumGreen Probes (ASR)	10 µL	05N24-010	00884999014770	357
Vysis DiGeorge Region LSI N25 SO/ ARSA SGN Probes (ASR)	20 µL	05J21-028	00884999011342	358
Vysis LSI TUPLE1 SpectrumOrange/TelVysion 22q SpectrumGreen Probes (ASR)	10 µL	01N14-010	00884999000490	359
Vysis LSI 22 (BCR) SpectrumGreen Probe (ASR)	20 µL	05J17-024	00884999011236	360
Vysis LSI BCR/ABL Dual Color, Dual Fusion Probe (ASR)	20 µL	05J82-001	00884999012592	361
Vysis LSI BCR/ABL Dual Color, Dual Fusion Probe (ASR)	50 µL	05J82-010	00884999012615	361
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe (ASR)	20 µL	05J77-001	00884999031173	362

PRODUCT	QUANTITY	ORDER #	GTIN	
<b>CHROMOSOME 22</b>				
Vysis LSI EWSR1 (22q12) Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	07J71-001	00884999029125	363
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	364
<b>CHROMOSOME X</b>				
Vysis TelVysion Xp/Yp SpectrumGreen Probe (ASR)	5 µL	05J03-023	00884999010109	230
Vysis TelVysion Xq/Yq SpectrumOrange Probe (ASR)	5 µL	05J04-023	00884999010468	230
Vysis CEP X (DXZ1) SpectrumAqua Probe (ASR)	20 µL	05J09-023	00884999010994	--
Vysis CEP X (DXZ1) SpectrumGreen Probe (ASR)	20 µL	05J10-023	00884999011076	--
Vysis CEP X (DXZ1) SpectrumOrange Probe (ASR)	20 µL	05J08-023	00884999010895	--
Vysis Kallmann Region LSI KAL SpectrumOrange/CEP X SpectrumGreen Probes (ASR)	20 µL	05J23-070	00884999011380	365
Vysis LSI Androgen Receptor Gene (Xq12) SpectrumOrange Probe (ASR)	20 µL	05J44-011	00884999011793	366
Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes (ASR)	20 µL	05J27-007	00884999011472	367
Vysis Steroid Sulfatase Deficiency LSI STS SpectrumOrange/CEP X SpectrumGreen Probes (ASR)	20 µL	05J28-004	00884999011519	368
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	369
<b>CHROMOSOME Y</b>				
Vysis CEP Y (DYZ1) SpectrumAqua Probe (ASR)	20 µL	05J09-024	00884999011007	--
Vysis CEP Y (DYZ1) SpectrumGreen Probe (ASR)	20 µL	05J10-024	00884999011083	--
Vysis CEP Y (DYZ1) SpectrumOrange Probe (ASR)	20 µL	05J08-024	00884999010901	--
Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes (ASR)	20 µL	05J27-007	00884999011472	370
Vysis SRY Probe LSI SRY SpectrumOrange (ASR)	20 µL	05J27-089	00884999011496	371
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703	372

## Telomeric Regions: Rearrangements, Deletions, and Additions

## Vysis TelVysion Probes

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis TelVysion 1p SpectrumGreen (ASR)	5 µL	05J03-001	00884999009882
Vysis TelVysion 1q SpectrumOrange (ASR)	5 µL	05J04-001	00884999010246
Vysis TelVysion 2p SpectrumGreen (ASR)	5 µL	05J03-002	00884999009899
Vysis TelVysion 2q SpectrumOrange (ASR)	5 µL	05J04-002	00884999010253
Vysis TelVysion 3p SpectrumGreen (ASR)	5 µL	05J03-003	00884999009905
Vysis TelVysion 3q SpectrumOrange (ASR)	5 µL	05J04-003	00884999010260
Vysis TelVysion 4p SpectrumGreen (ASR)	5 µL	05J03-004	00884999009912
Vysis TelVysion 4q SpectrumOrange (ASR)	5 µL	05J04-004	00884999010277
Vysis TelVysion 5p SpectrumGreen (ASR)	5 µL	05J03-005	00884999009929
Vysis TelVysion 5q SpectrumOrange (ASR)	5 µL	05J04-005	00884999010284
Vysis TelVysion 6p SpectrumGreen (ASR)	5 µL	05J03-006	00884999009936
Vysis TelVysion 6q SpectrumOrange (ASR)	5 µL	05J04-006	00884999010291
Vysis TelVysion 7p SpectrumGreen (ASR)	5 µL	05J03-007	00884999009943
Vysis TelVysion 7q SpectrumOrange (ASR)	5 µL	05J04-007	00884999010307
Vysis TelVysion 8p SpectrumGreen (ASR)	5 µL	05J03-008	00884999009950
Vysis TelVysion 8q SpectrumOrange (ASR)	5 µL	05J04-008	00884999010314
Vysis TelVysion 9p SpectrumGreen (ASR)	5 µL	05J03-009	00884999009967
Vysis TelVysion 9q SpectrumOrange (ASR)	5 µL	05J04-009	00884999010321
Vysis TelVysion 10p SpectrumGreen (ASR)	5 µL	05J03-010	00884999009974
Vysis TelVysion 10q SpectrumOrange (ASR)	5 µL	05J04-010	00884999010338
Vysis TelVysion 11p SpectrumGreen (ASR)	5 µL	05J03-011	00884999009981
Vysis TelVysion 11q SpectrumOrange (ASR)	5 µL	05J04-011	00884999010345
Vysis TelVysion 12p SpectrumGreen (ASR)	5 µL	05J03-012	00884999009998
Vysis TelVysion 12q SpectrumOrange (ASR)	5 µL	05J04-012	00884999010352
Vysis TelVysion 13q SpectrumOrange (ASR)	5 µL	05J04-013	00884999010369

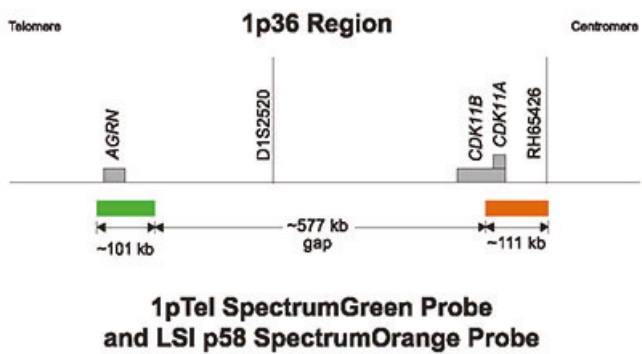
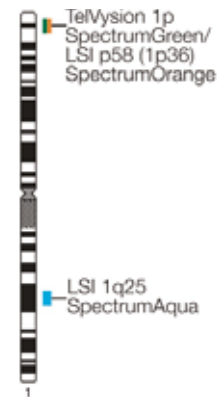
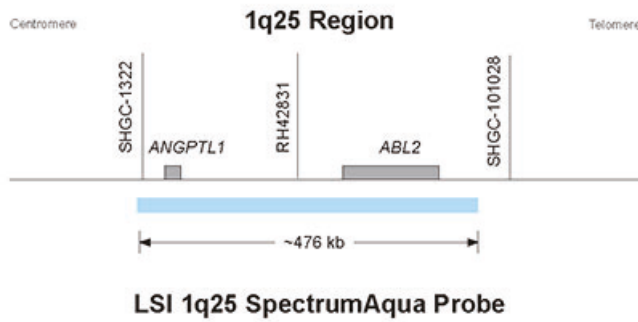
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis TelVysion 14q SpectrumOrange (ASR)	5 µL	05J04-014	00884999010376
Vysis TelVysion 15q SpectrumOrange (ASR)	5 µL	05J04-015	00884999010383
Vysis TelVysion 16p SpectrumGreen (ASR)	5 µL	05J03-016	00884999010031
Vysis TelVysion 16q SpectrumOrange (ASR)	5 µL	05J04-016	00884999010390
Vysis TelVysion 17p SpectrumGreen (ASR)	5 µL	05J03-017	00884999010048
Vysis TelVysion 17q SpectrumOrange (ASR)	5 µL	05J04-017	00884999010406
Vysis TelVysion 18p SpectrumGreen (ASR)	5 µL	05J03-018	00884999010055
Vysis TelVysion 18q SpectrumOrange (ASR)	5 µL	05J04-018	00884999010413
Vysis TelVysion 19p SpectrumGreen (ASR)	5 µL	05J03-019	00884999010062
Vysis TelVysion 19q SpectrumOrange (ASR)	5 µL	05J04-019	00884999010420
Vysis TelVysion 20p SpectrumGreen (ASR)	5 µL	05J03-020	00884999010079
Vysis TelVysion 20q SpectrumOrange (ASR)	5 µL	05J04-020	00884999010437
Vysis TelVysion 21q SpectrumOrange (ASR)	5 µL	05J04-021	00884999010444
Vysis TelVysion 22q SpectrumOrange (ASR)	5 µL	05J04-022	00884999010451
Vysis TelVysion Xp/Yp SpectrumGreen Probe (ASR)	5 µL	05J03-023	00884999010109
Vysis TelVysion Xq/Yq SpectrumOrange Probe (ASR)	5 µL	05J04-023	00884999010468

## PRODUCT DESCRIPTION

Telomeres are DNA-protein complexes that cap the ends of eukaryotic chromosomes. Every telomere contains 3 to 20 kb of tandem TTAGGG repeats. The telomere associated repeats (TAR), also known as the subtelomeric repeats, are immediately proximal to the TTAGGG repeats. They contain regions of shared homology between subsets of certain chromosomes.

Chromosome 1

Vysis LSI 1p36 Microdeletion Region Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 1p36 Microdeletion Region Probe (ASR)	20 µL	05J21-020	00884999011328

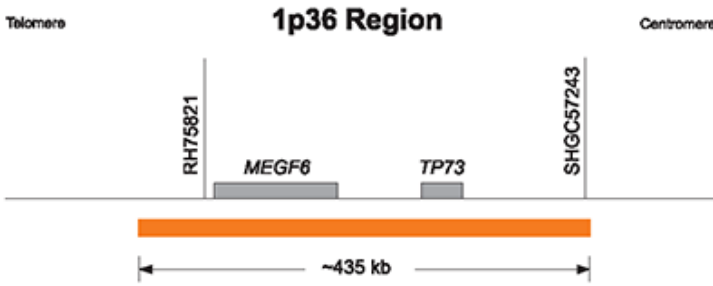
PRODUCT DESCRIPTION

Vysis LSI 1p36 Microdeletion Region Probe hybridizes to the band region 1p36 (LSI p58 SpectrumOrange), band region 1p telomere (LSI Telomere 1p SpectrumGreen) and band region 1q25 (LSI 1q25 SpectrumAqua). The hybridized probe fluoresces with moderate intensity both in interphase nuclei and on metaphase chromosomes.

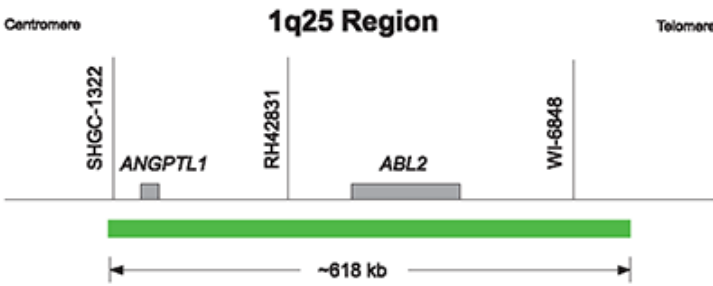


Chromosome 1

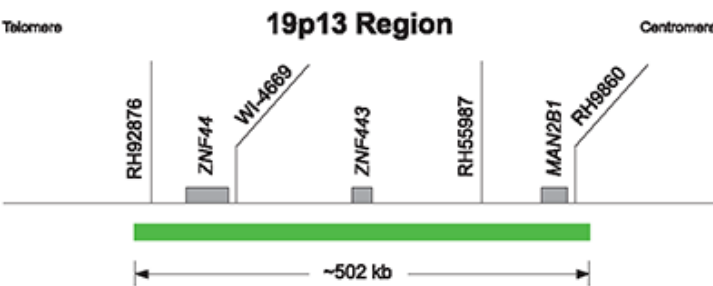
Vysis LSI 1p36 SpectrumOrange / 1q25 SpectrumGreen Probes and  
Vysis LSI 19q13 SpectrumOrange / 19p13 SpectrumGreen Probes



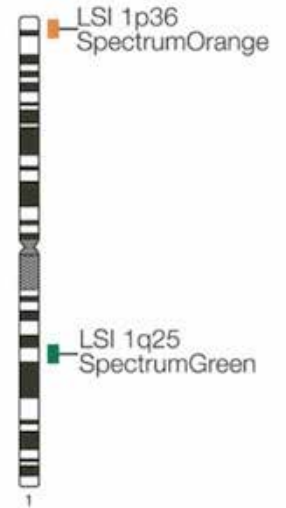
**LSI 1p36 SpectrumOrange Probe**

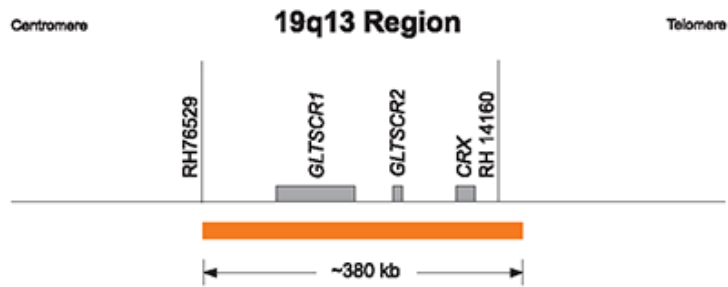


**LSI 1q25 SpectrumGreen Probe**



**LSI 19p13 SpectrumGreen Probe**





**LSI 19q13 SpectrumOrange Probe**

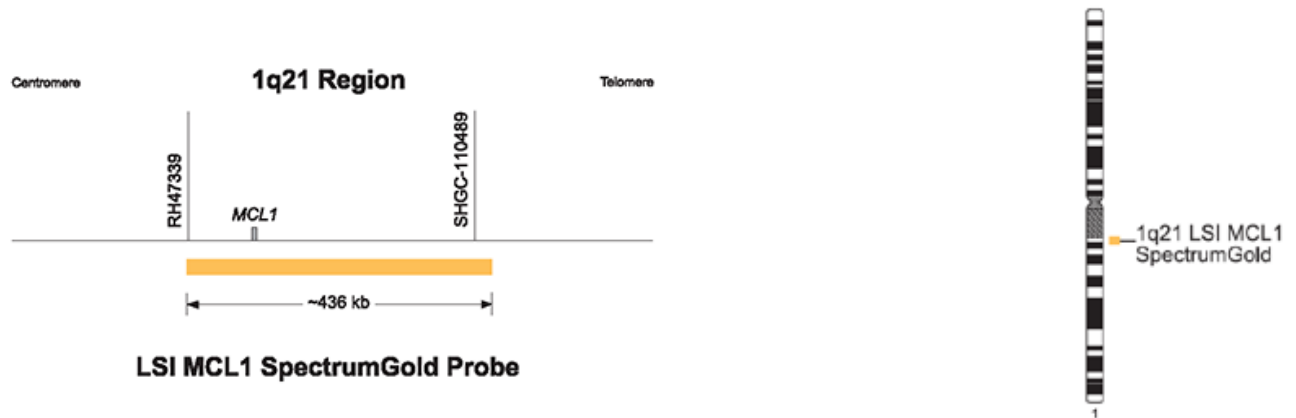
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (ASR)	200 µL	07J73-001	00884999029187

**PRODUCT DESCRIPTION**

Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes consist of two separate probe mixtures: one probe set/vial contains LSI 1p36 SpectrumOrange and LSI 1q25 SpectrumGreen, and the other probe set/vial contains LSI 19q13 SpectrumOrange and LSI 19p13 SpectrumGreen. The hybridized probes fluoresce with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 1

Vysis LSI MCL1 SpectrumGold Probe



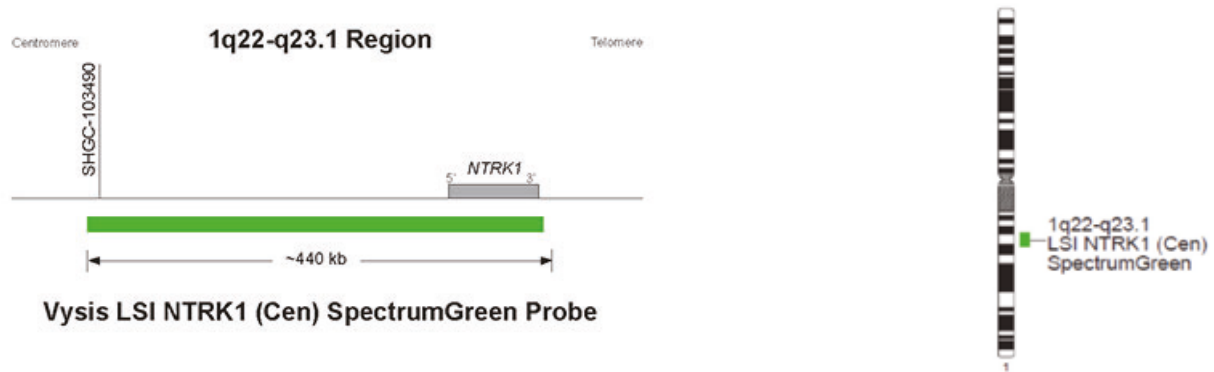
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MCL1 SpectrumGold Probe (ASR)	20 µL	07N97-020	00884999037489

PRODUCT DESCRIPTION

The SpectrumGold Vysis LSI MCL1 fluorescence in situ hybridization (FISH) probe is targeted to the 1q21 region on chromosome 1. The probe is approximately 436 kb in size and spans the MCL1 gene area. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 1

Vysis LSI NTRK1 (Cen) SpectrumGreen Probe



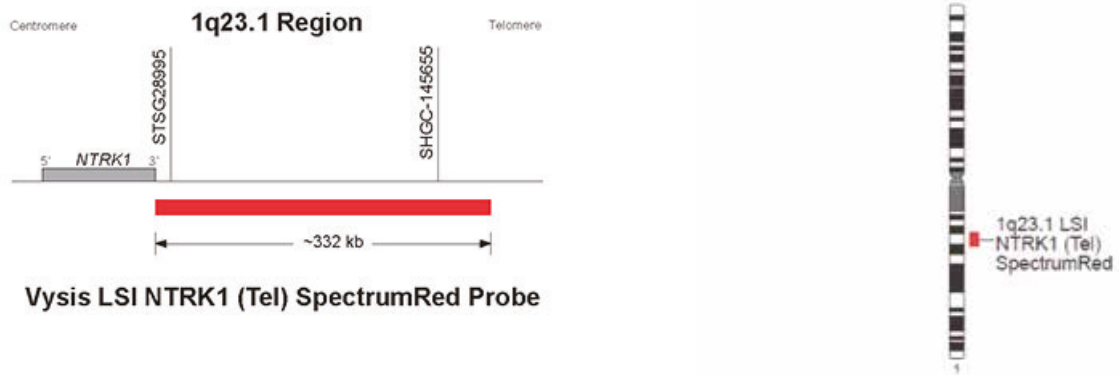
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI NTRK1 (Cen) SpectrumGreen Probe (ASR)	20 µL	08N43-030	00884999042605

PRODUCT DESCRIPTION

The Vysis LSI NTRK1 (Cen) SpectrumGreen fluorescence in situ hybridization (FISH) probe is targeted to the 1q22-q23.1 region on chromosome 1. The probe is approximately 440 kb in size and contains the entire NTRK1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 1

Vysis LSI NTRK1 (Tel) SpectrumRed Probe



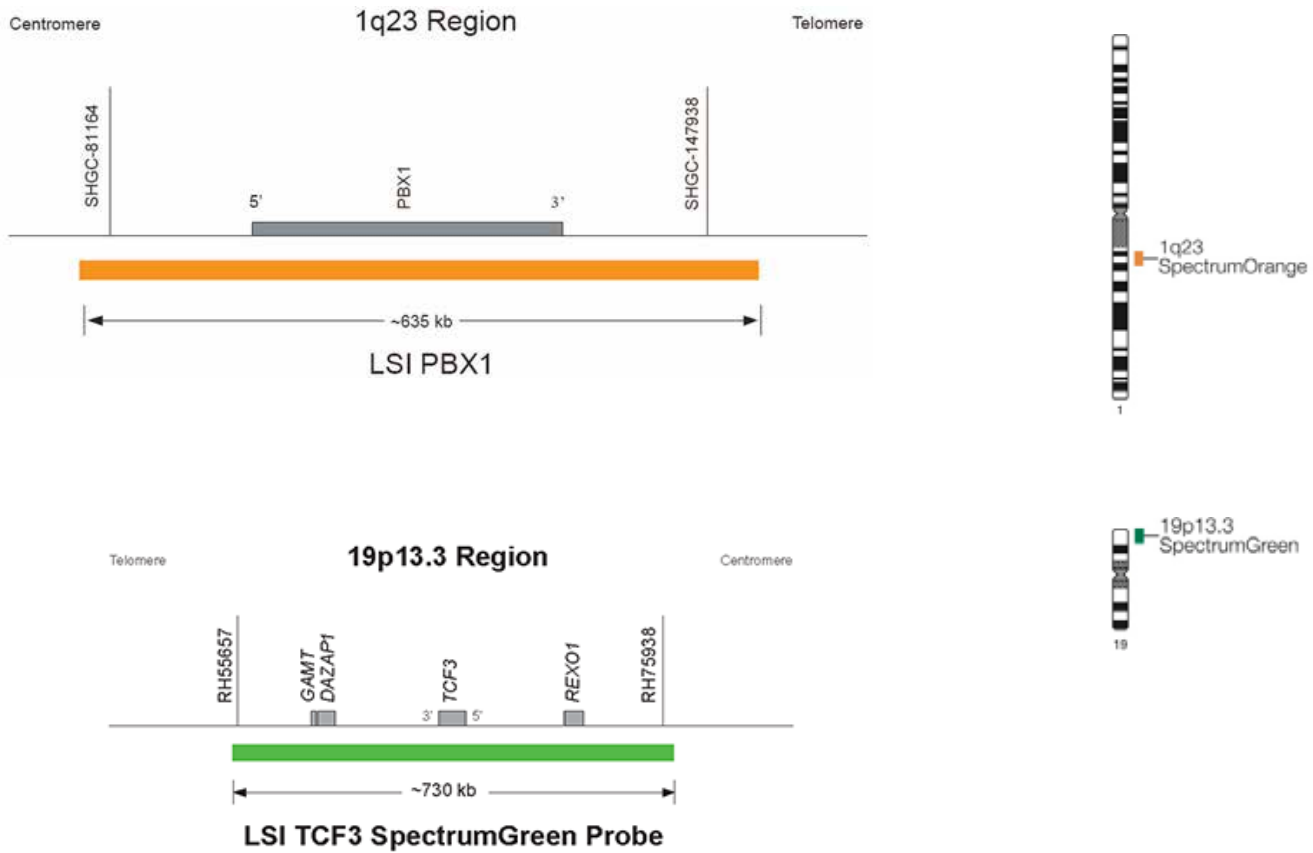
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI NTRK1 (Tel) SpectrumRed Probe (ASR)	20 µL	08N43-020	00884999042599

PRODUCT DESCRIPTION

The Vysis LSI NTRK1 (Tel) SpectrumRed fluorescence in situ hybridization (FISH) probe is targeted to the 1q23.1 region on chromosome 1. The probe is approximately 332 kb in size and positioned telomeric to the NTRK1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 1

Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	01N24-020	00884999000605

PRODUCT DESCRIPTION

Vysis LSI TCF3/ PBX1 Dual Color, Dual Fusion Translocation Probe hybridizes to chromosome 19p13.3 (TCF3 - Spectrum Green) and chromosome 1q23 (PBX1 - Spectrum Orange). The PBX1 probe is 635 kb in size and covers the entire PBX1 gene on chromosome 1q23. The TCF3 probe is 730 kb in size and the green probe extends beyond the TCF3 gene to cover a larger region on chromosome 19p13.3.

The signals may also appear diffuse or split depending upon the condensation of the DNA and the relative distances between chromatids. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct orange signals and two distinct green signals.

## Chromosome 1

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

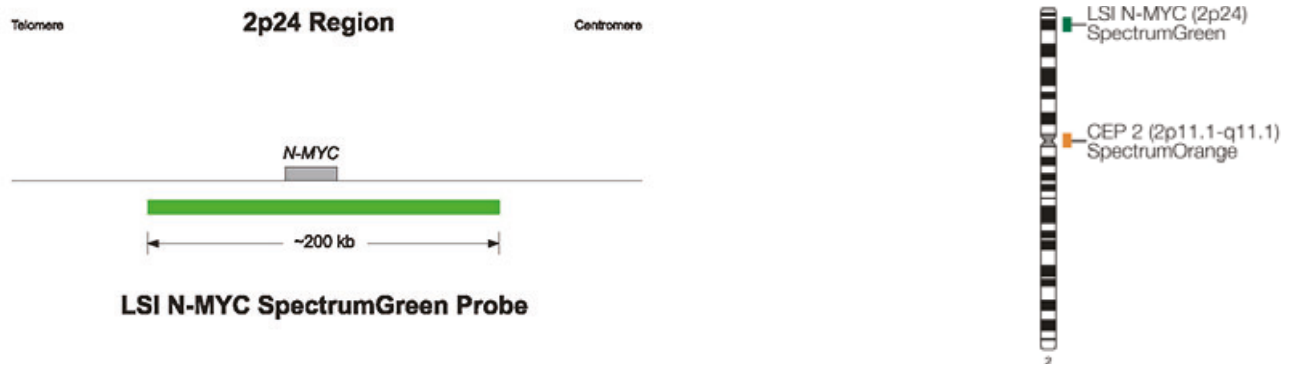
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 2

Vysis LSI N-MYC SpectrumGreen / CEP 2 SpectrumOrange Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI N-MYC SpectrumGreen/CEP 2 SpectrumOrange Probes (ASR)	20 µL	05J66-001	00884999012257

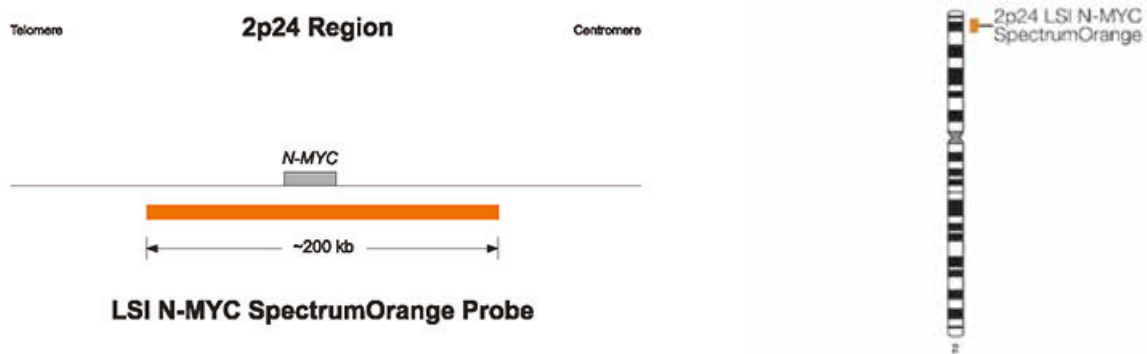
PRODUCT DESCRIPTION

Vysis LSI N-MYC SpectrumGreen/CEP 2 SpectrumOrange Probes hybridize to the band region 2p24 (LSI N-MYC SG) and the alpha satellite region (CEP 2 SO) of human chromosome 2. The hybridized probe fluoresces with bright to moderate intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 2

Vysis LSI N-MYC SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI N-MYC SpectrumOrange Probe (ASR)	20 µL	05J50-001	00884999011984

PRODUCT DESCRIPTION

Vysis LSI N-MYC SpectrumOrange Probe hybridizes to the band region 2p23 - p24 of human chromosome 2. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 2

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

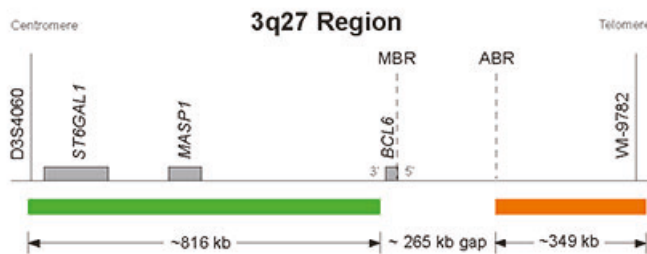
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

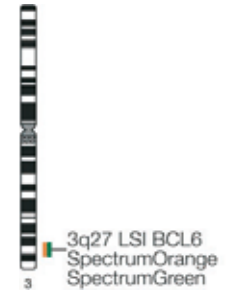
<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 3

Vysis LSI BCL6 Dual Color Break Apart Rearrangement Probe



**LSI BCL6 Dual Color,  
Break Apart Rearrangement Probe**



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCL6 (ABR)* Dual Color Break Apart Rearrangement Probe <b>(ASR)</b>	20 µL	01N23-020	00884999000582

**PRODUCT DESCRIPTION**

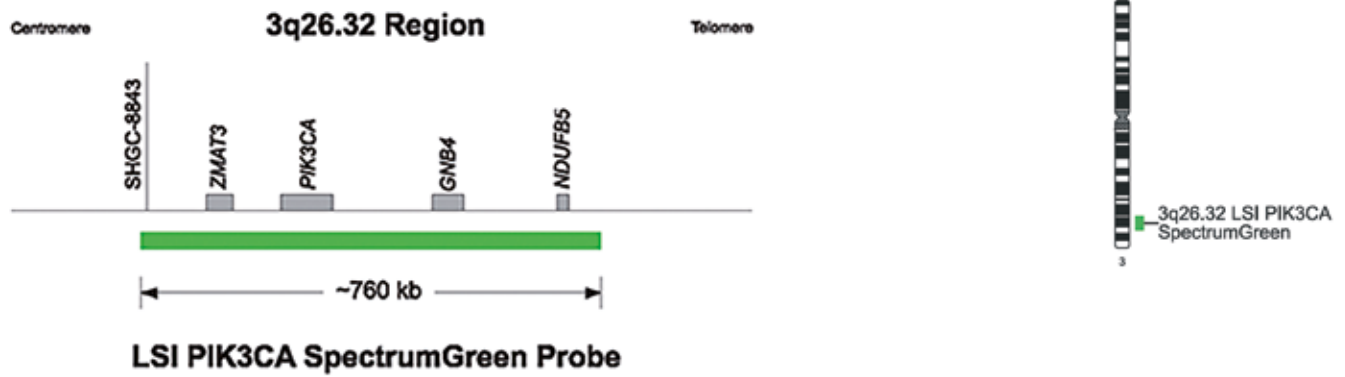
Vysis LSI BCL6 (ABR)\* Dual Color Break Apart DNA probe hybridizes to the band 3q27. The 5' BCL6 SpectrumOrange™ probe is ~349 kb in size and flanks the ABR of BCL6. The 3' BCL6 SpectrumGreen™ probe is approximately 816kb in size and flanks the MBR region of BCL6. There is an approximate 265 kb gap between the two probes.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals (orange and green adjacent, or fused yellow). The two probes are separated by an approximately 265 kb gap that contains the entire BCL6 gene including the BCL6 breakpoint region, which may result in a gap between the orange and green signal in one or both normal, fused signals. Individual labs may wish to establish criteria for what constitutes truly split signals. Probe signals may also appear diffuse or split in interphase nuclei, depending upon the condensation of the DNA. In normal metaphase spreads, the probe may appear as one or two signals on each chromosome 3.

\*ABR- Alternate Breakpoint Region

Chromosome 3

Vysis PIK3CA SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PIK3CA SpectrumGreen Probe (ASR)	20 µL	06N10-001	00884999034891

PRODUCT DESCRIPTION

The SpectrumGreen Vysis LSI PIK3CA fluorescence in situ hybridization (FISH) probe is targeted to the 3q26.32 region on chromosome 3. The probe is approximately 760 kb in size and spans the entire PIK3CA gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 3

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

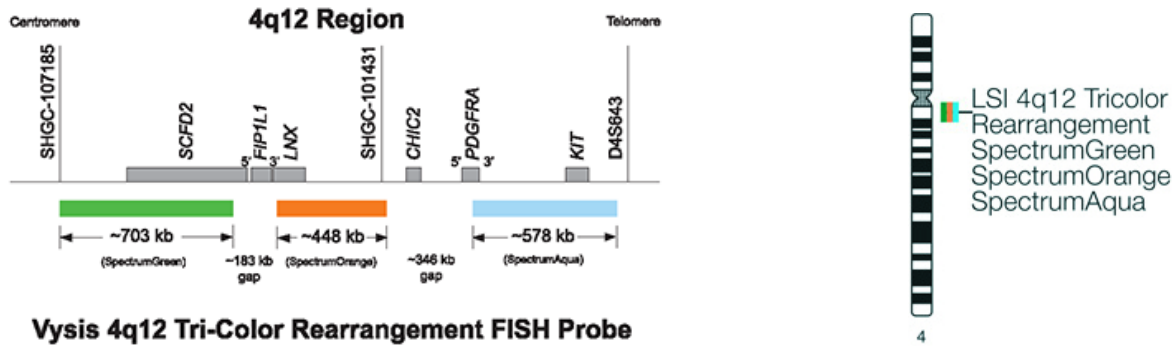
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 4

Vysis LSI 4q12 Tri-Color Rearrangement FISH Probe Kit



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 4q12 Tri-Color Rearrangement FISH Probe Kit (ASR)	20 µL	01N79-020	00884999001039

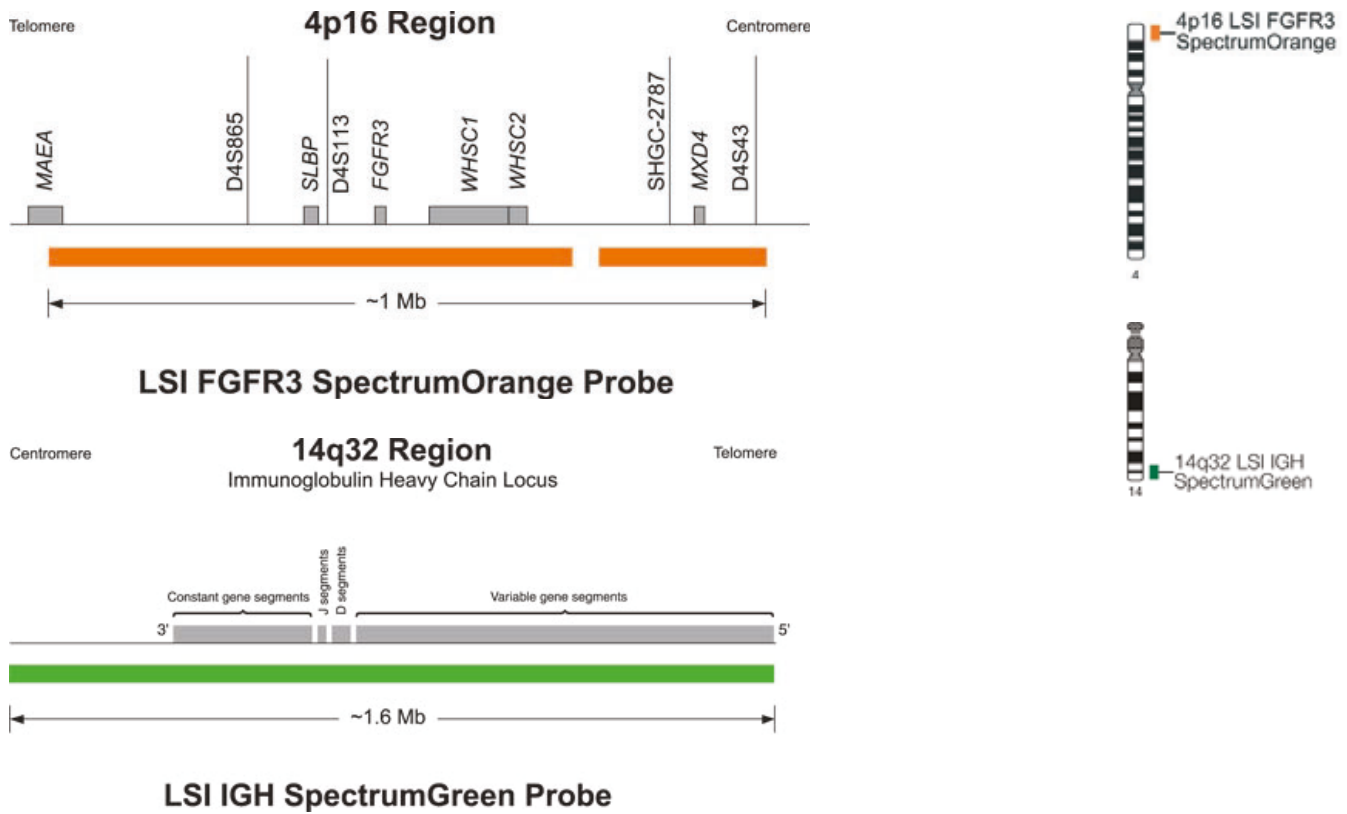
PRODUCT DESCRIPTION

Vysis LSI 4q12 Tricolor Rearrangement Probe hybridizes to chromosome 4q12 with all three colors- SpectrumOrange (SO), SpectrumGreen (SG), and SpectrumAqua (SA).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 4

Vysis LSI IGH/FGFR3 Dual Color, Dual Fusion FISH Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes (ASR)	20 µL	05J74-001	00884999012417

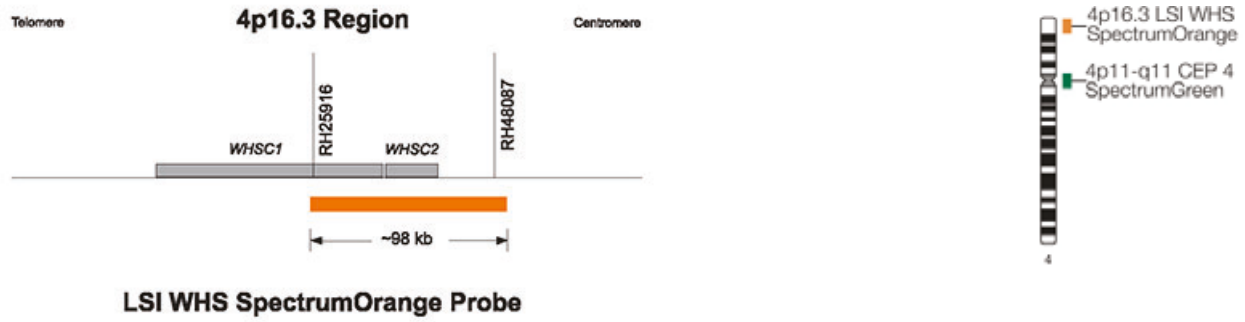
PRODUCT DESCRIPTION

Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 4p16 (FGFR3 SpectrumOrange).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 4

Vysis Wolf-Hirschhorn Region LSI WHS SpectrumOrange / CEP 4 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Wolf-Hirschhorn Region LSI WHS SpectrumOrange/CEP 4 SpectrumGreen Probes (ASR)	20 µL	05J29-074	00884999011533

PRODUCT DESCRIPTION

Vysis Wolf-Hirschhorn Region LSI WHS SpectrumOrange/CEP 4 SpectrumGreen Probes hybridize to the band 4p16.3 (SpectrumOrange LSI WHS) and to the centromere, band region 4p11 - q11 (SpectrumGreen CEP 4), of human chromosome 4. The SpectrumOrange LSI WHS probe contains the 3' segment of the WHSC1 gene and sequences 3' to the gene that falls within the Wolf-Hirschhorn critical region<sup>1</sup>. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

<sup>1</sup>Stec, I., et. al. (1998) Hum. Mol. Genet. Vol. 7, 1071-1082.



## Chromosome 4

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

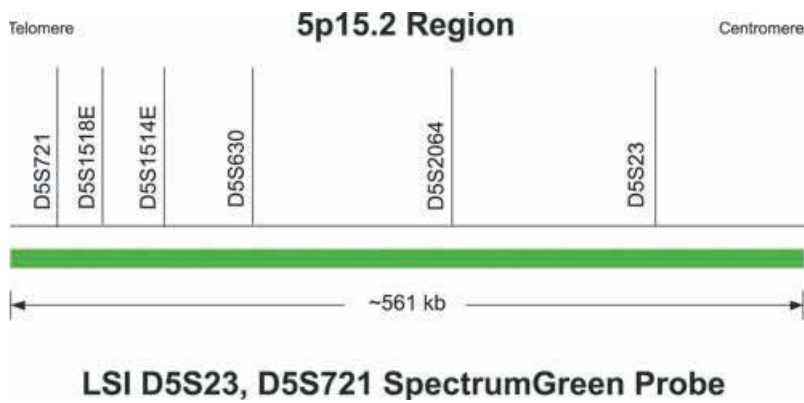
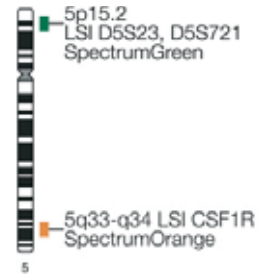
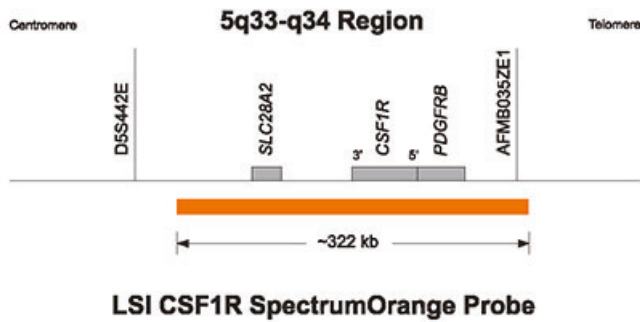
<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989





Chromosome 5

Vysis LSI CSF1R SpectrumOrange / D5S23, D5S721 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CSF1R SpectrumOrange/ D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J60-001	00884999012189

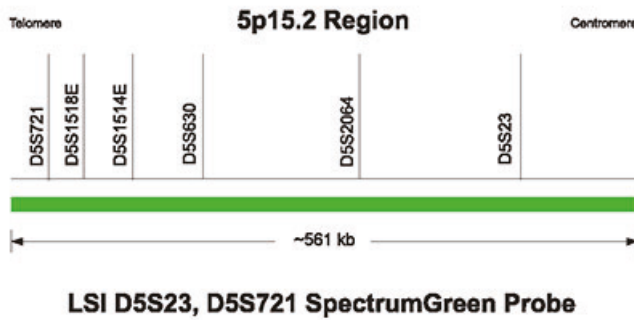
PRODUCT DESCRIPTION

Vysis LSI CSF1R SpectrumOrange/D5S23,D5S721 SpectrumGreen Probes hybridize to band region 5q33 - 34 (SpectrumOrange LSI CSF1R) and to band 5p15.2, loci D5S721 and D5S23 (SpectrumGreen LSI D5S23:D5S721) of human chromosome 5.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 5

Vysis LSI D5S23, D5S721 SpectrumGreen Probe



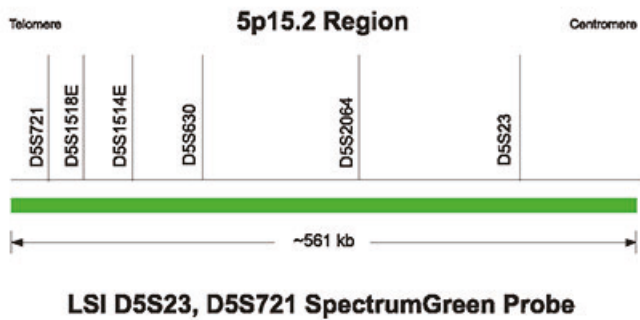
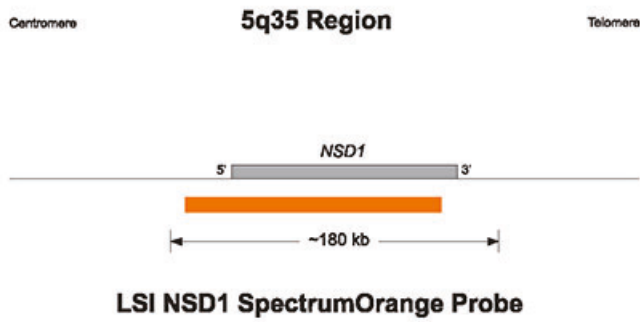
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D5S23, D5S721 SpectrumGreen Probe (ASR)	20 µL	04N30-020	00884999008274

**PRODUCT DESCRIPTION**

The SpectrumGreen Vysis LSI D5S23, D5S721 fluorescence in situ hybridization (FISH) probe is targeted to the 5p15.2 region on chromosome 5. The probe is ~450 kb in size and spans the D5S23, D5S721 region. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 5

Vysis Sotos Region LSI NSD1 SpectrumOrange / LSI D5S23, D5S721 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Sotos Region LSI NSD1 SpectrumOrange/LSI D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J48-007	00884999011915

PRODUCT DESCRIPTION

Vysis Sotos Region NSD1 SpectrumOrange/D5S23, D5S721 SpectrumGreen Probes hybridize to the band region 5q35 (LSI NSD1 SO) and 5p15.2 (LSI D5S23, D5S721 SG) of human chromosome 5. The hybridized probe fluoresces with bright to moderate intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 5

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

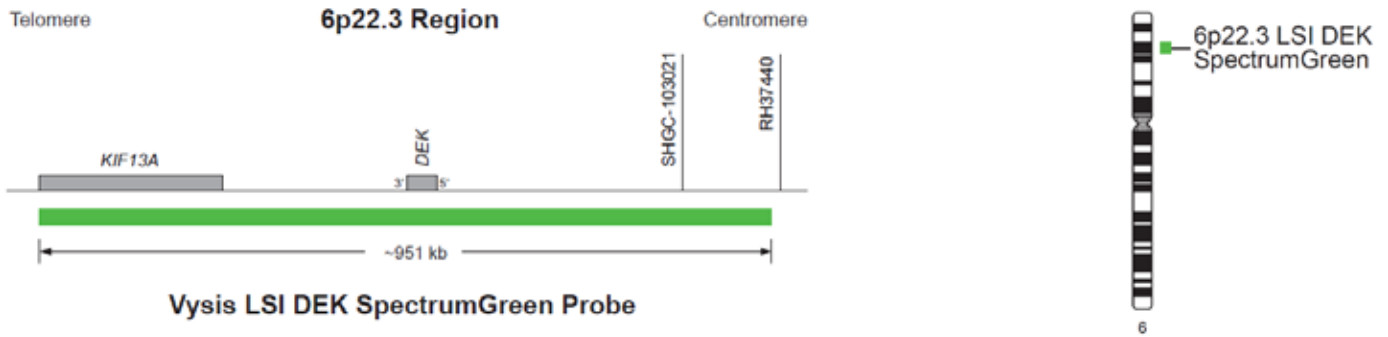
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup> Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 6

Vysis LSI DEK SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI DEK SpectrumGreen Probe (ASR)	20 µL	09N24-020	00884999046610

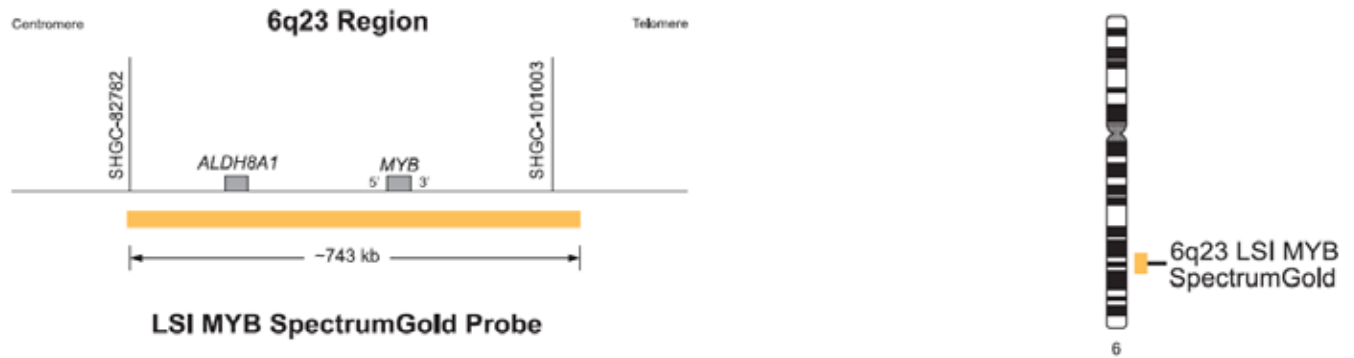
PRODUCT DESCRIPTION

The Vysis LSI DEK SpectrumGreen fluorescence in situ hybridization (FISH) probe is targeted to the 6p22.3 region on chromosome 6. The probe is approximately 951 kb in size and spans the DEK gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 6

Vysis LSI MYB (6q23) SpectrumGold Probe



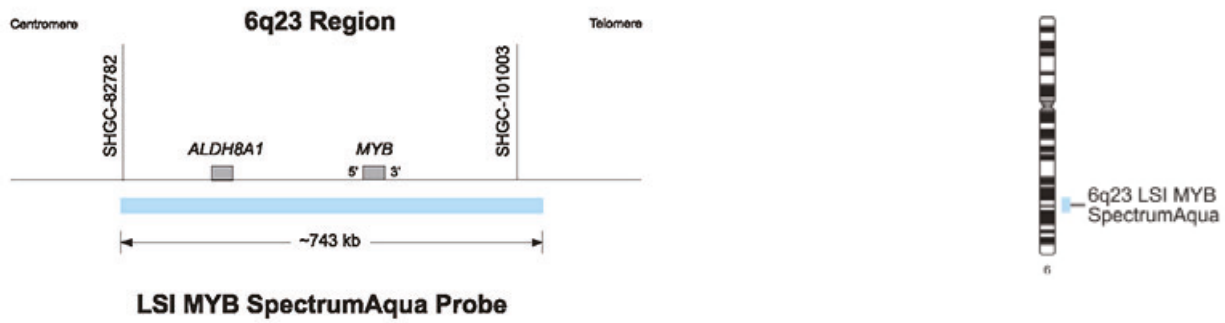
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYB (6q23) SpectrumGold Probe (ASR)	20 µL	04N33-020	00884999008323

PRODUCT DESCRIPTION

The Vysis LSI MYB (6q23) SpectrumGold Probe is targeted to the MYB region on chromosome 6q23. The probe is ~743 kb in size and spans the MYB gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids. The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 6.

Chromosome 6

Vysis LSI MYB (6q23) SpectrumAqua Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYB (6q23) SpectrumAqua Probe (ASR)	20 µL	07J86-011	00884999029392

PRODUCT DESCRIPTION

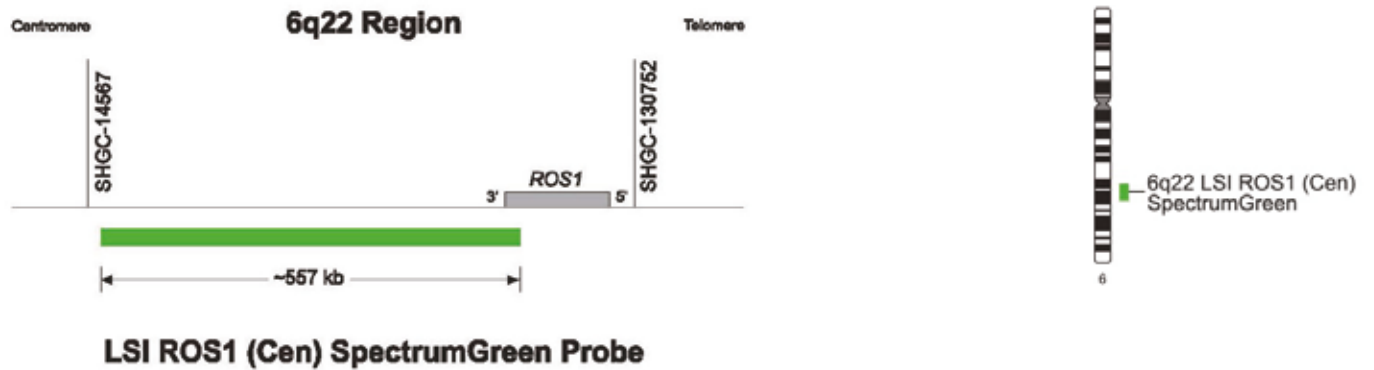
Vysis LSI MYB (6q23) SpectrumAqua DNA probe hybridizes to human chromosome 6q23. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids.

The signals may also appear as diffuse or split signals. In a normal metaphase, the probe may appear as one or two signals on each chromosome 6.

Chromosome 6

Vysis LSI ROS1 (Cen) SpectrumGreen Probe



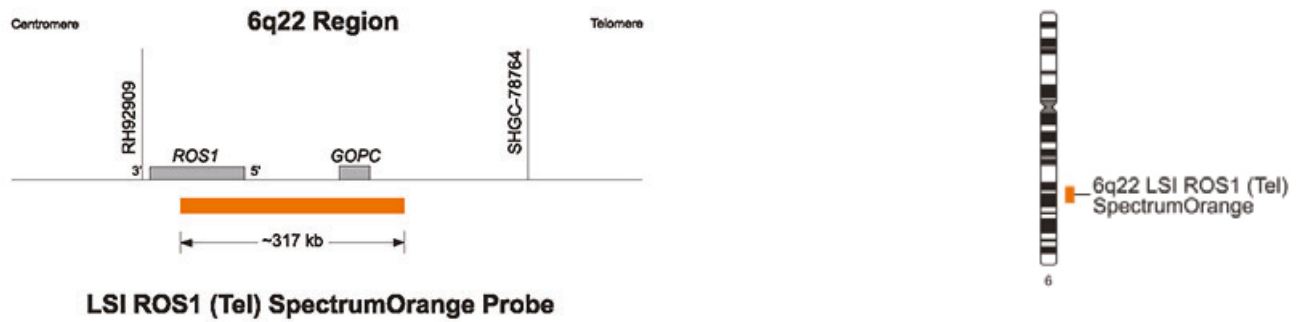
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ROS1 (Cen) SpectrumGreen Probe (ASR)	20 µL	08N07-020	00884999037120

PRODUCT DESCRIPTION

The SpectrumGreen Vysis LSI ROS1 (Cen) fluorescence in situ hybridization (FISH) probe is targeted to the 6q22 region on chromosome 6. The probe is approximately 557 kb in size and positioned centromeric of the ROS1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 6

Vysis LSI ROS1 (Tel) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ROS1 (Tel) SpectrumOrange Probe (ASR)	20 µL	08N05-020	00884999037458

PRODUCT DESCRIPTION

The SpectrumOrange Vysis LSI ROS1 (Tel) fluorescence in situ hybridization (FISH) probe is targeted to the 6q22 region on chromosome 6. The probe is approximately 317 kb in size and positioned telomeric of the ROS1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 6

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

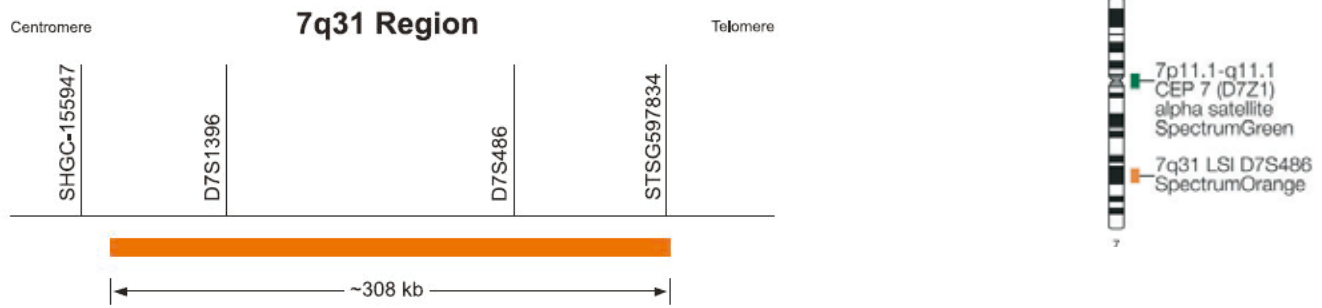
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 7

Vysis LSI D7S486 SpectrumOrange/CEP 7 SpectrumGreen Probes



**LSI D7S486 SpectrumOrange Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D7S486 SpectrumOrange/CEP 7 SpectrumGreen Probes (ASR)	20 µL	05J61-001	00884999012196

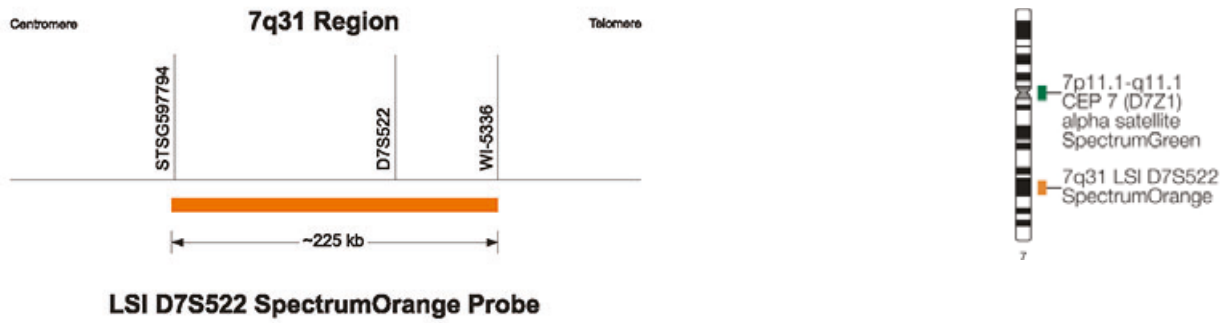
**PRODUCT DESCRIPTION**

Vysis LSI D7S486 SpectrumOrange/CEP 7 SpectrumGreen Probes hybridize to band 7q31 (SpectrumOrange LSI D7S486) and to the centromere, band region 7p11.1-q11.1, locus D7Z1 (SpectrumGreen CEP 7) of human chromosome 7.

The hybridized probes fluoresce with bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes (ASR)	20 µL	05J85-001	00884999012752

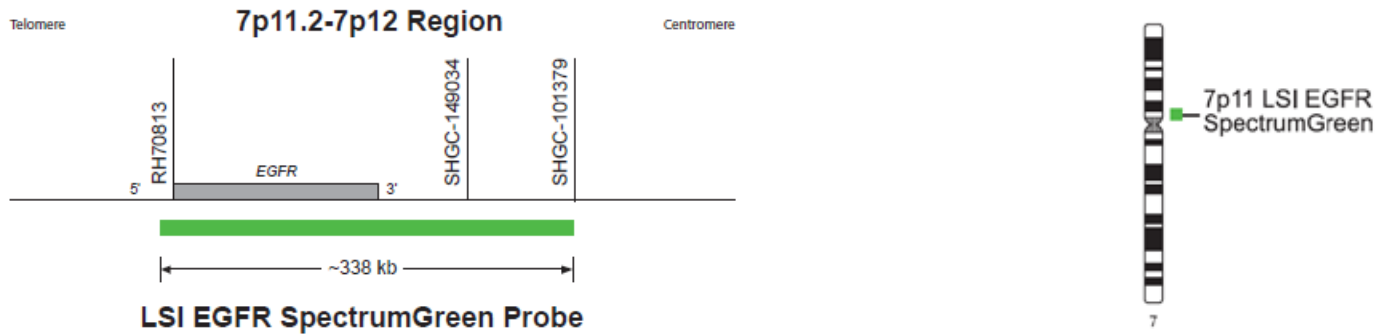
PRODUCT DESCRIPTION

Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes hybridize to band 7q31 (SpectrumOrange LSI D7S522) and to the centromere, band region 7p11.1-q11.1, locus D7Z1 (SpectrumGreen CEP 7) of human chromosome 7.

The hybridized probes fluoresce with bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis LSI EGFR SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI EGFR SpectrumGreen Probe (ASR)	20 µL	07N98-020	00884999037496

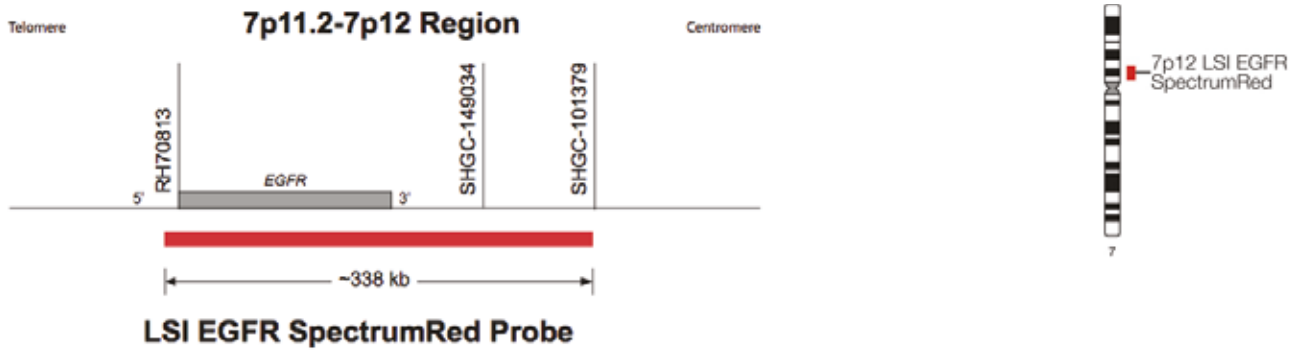
PRODUCT DESCRIPTION

The SpectrumGreen Vysis LSI EGFR fluorescence in situ hybridization (FISH) probe is targeted to the 7p11.2 –p12 region on chromosome 7. The probe is approximately 303 kb in size and spans the EGFR gene area. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 7

Vysis LSI EGFR SpectrumRed Probe



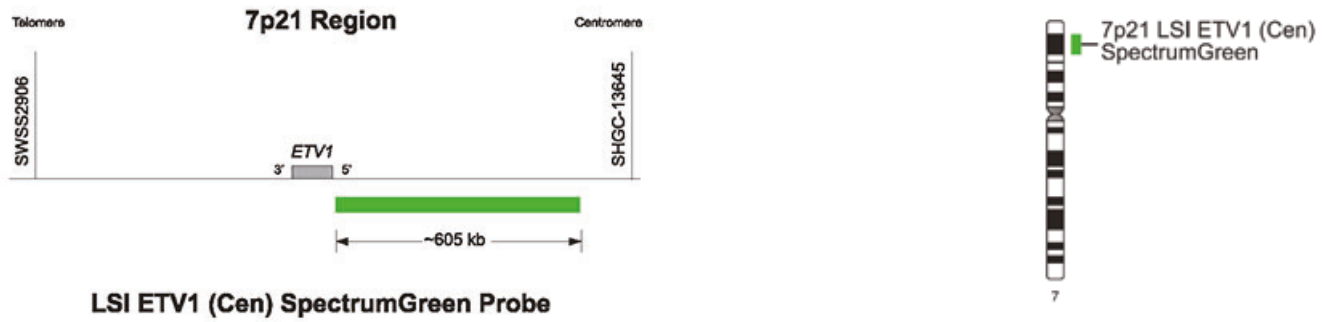
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI EGFR SpectrumRed Probe (ASR)	20 µL	04N31-020	00884999008281

PRODUCT DESCRIPTION

The SpectrumRed Vysis LSI EGFR fluorescence in situ hybridization (FISH) probe is targeted to the 7p12 region on chromosome 7. The probe is ~338 kb in size and spans the EGFR gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis LSI ETV1 (Cen) SpectrumGreen Probe



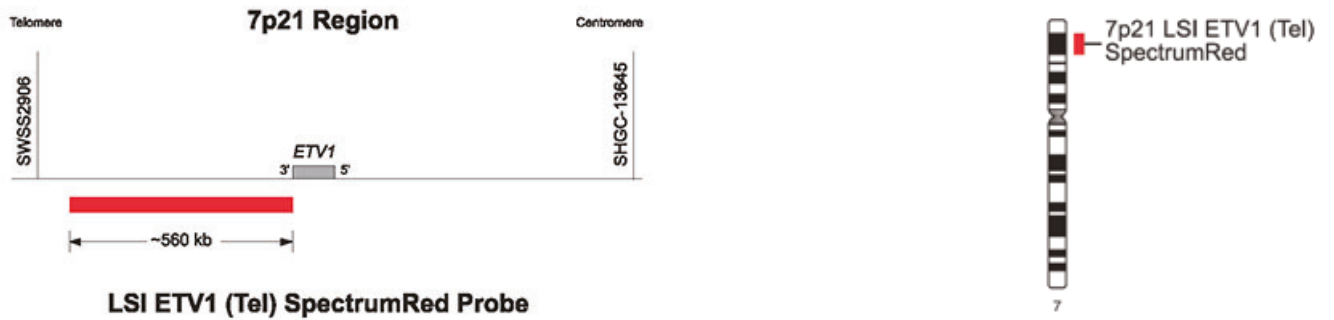
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ETV1 (Cen) SpectrumGreen Probe (ASR)	20 µL	07N71-020	00884999036499

PRODUCT DESCRIPTION

The SpectrumGreen Vysis LSI ETV1 (Cen) fluorescence in situ hybridization (FISH) probe is targeted to the 7p21.2 region on chromosome 7. The probe is approximately 605 kb in size and positioned centromeric of the ETV1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis LSI ETV1 (Tel) SpectrumRed Probe



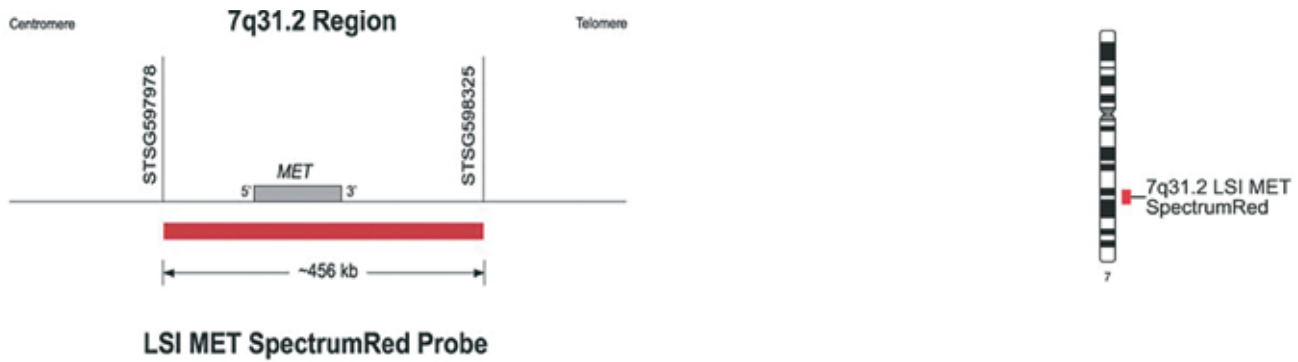
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ETV1 (Tel) SpectrumRed Probe (ASR)	20 µL	07N72-020	00884999036482

PRODUCT DESCRIPTION

The SpectrumRed Vysis LSI ETV1 (Tel) fluorescence in situ hybridization (FISH) probe is targeted to the 7p21.2 region on chromosome 7. The probe is approximately 560 kb in size and positioned telomeric of the ETV1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis MET SpectrumRed Probe



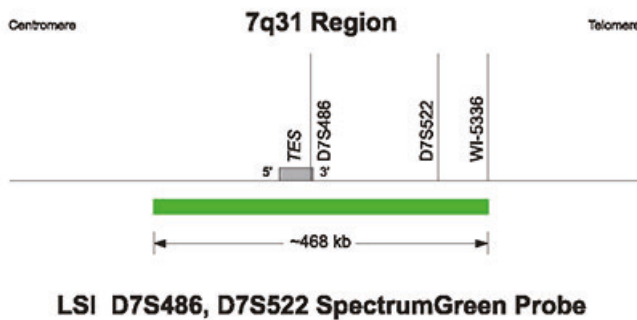
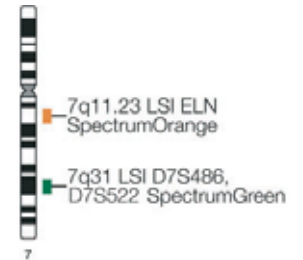
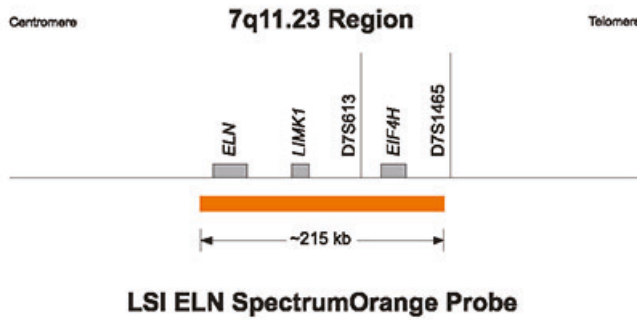
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis MET SpectrumRed Probe (ASR)	20 µL	06N05-001	00884999024977

PRODUCT DESCRIPTION

The SpectrumRed Vysis LSI MET fluorescence in situ hybridization (FISH) probe is targeted to the 7q31.2 region on chromosome 7. The probe is ~456 kb in size and spans the entire MET gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis Williams Region Probe - LSI ELN SpectrumOrange / LSI D7S486, D7S522 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Williams Region Probe - LSI ELN SpectrumOrange/LSI D7S486, D7S522 SpectrumGreen Probes (ASR)	20 µL	05J30-045	00884999011564

PRODUCT DESCRIPTION

The Vysis Williams Region LSI ELN SpectrumOrange/LSI D7S486, D7S522 SpectrumGreen Probes hybridize to the band 7q11.2, loci ELN, LIMK1, and D7S613 (SpectrumOrange LSI Elastin) and to the band 7q31, loci D7S486 and D7S522 of human chromosome 7. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 7

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

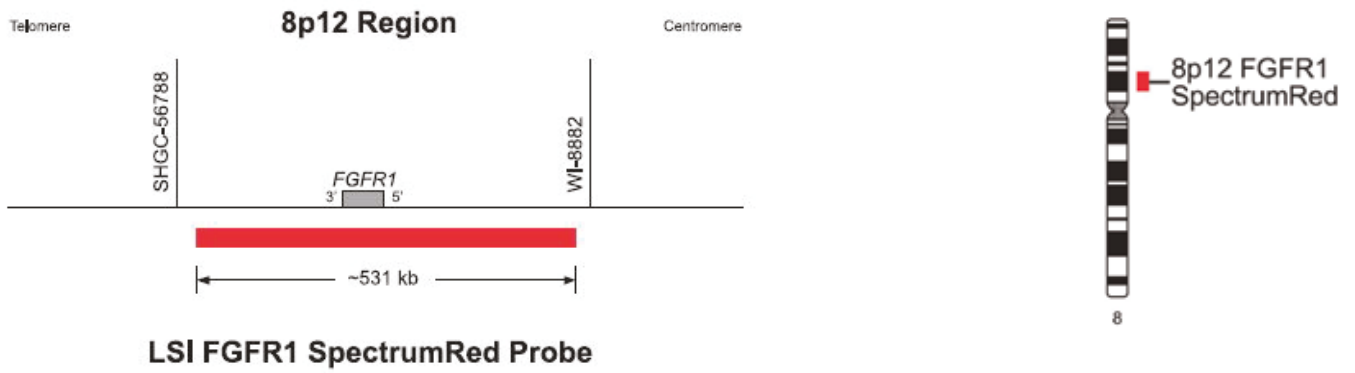
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 8

Vysis LSI FGFR1 SpectrumRed Probe



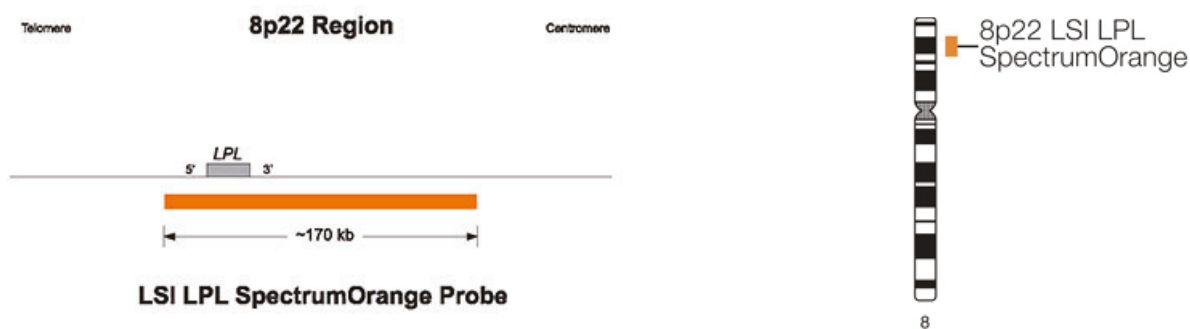
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI FGFR1 SpectrumRed Probe (ASR)	20 µL	08N21-020	00884999038042

PRODUCT DESCRIPTION

The Vysis LSI FGFR1 SpectrumRed fluorescence in situ hybridization (FISH) probe is targeted to the 8p12 region on chromosome 8. The probe is approximately 531 kb in size and contains the entire FGFR1 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 8

Vysis LSI LPL SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI LPL SpectrumOrange Probe (ASR)	20 µL	04N34-020	00884999008335

PRODUCT DESCRIPTION

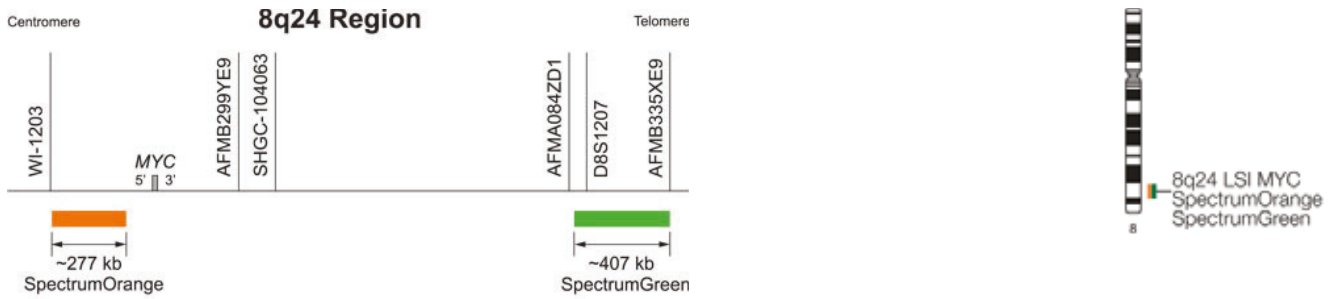
The SpectrumOrange Vysis LSI LPL fluorescence in situ hybridization (FISH) probe is targeted to the 8p22 region on chromosome 8. The probe is ~170 kb in size and spans the LPL gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 8

Vysis LSI MYC Dual Color Break Apart Rearrangement Probe



**LSI MYC Dual Color,  
Break Apart Rearrangement Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J91-001	00884999012844

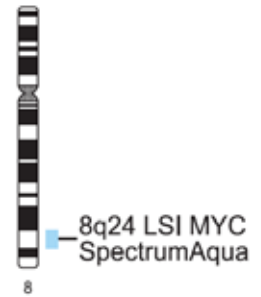
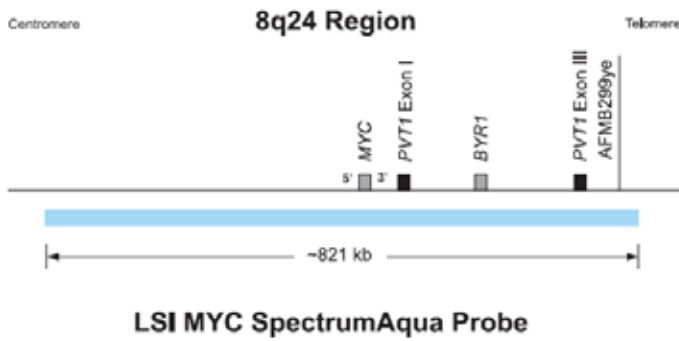
**PRODUCT DESCRIPTION**

Vysis LSI MYC Dual Color Break Apart Rearrangement Probe hybridizes to the band region 8q24.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 8

Vysis LSI MYC (8q24) SpectrumAqua Probe



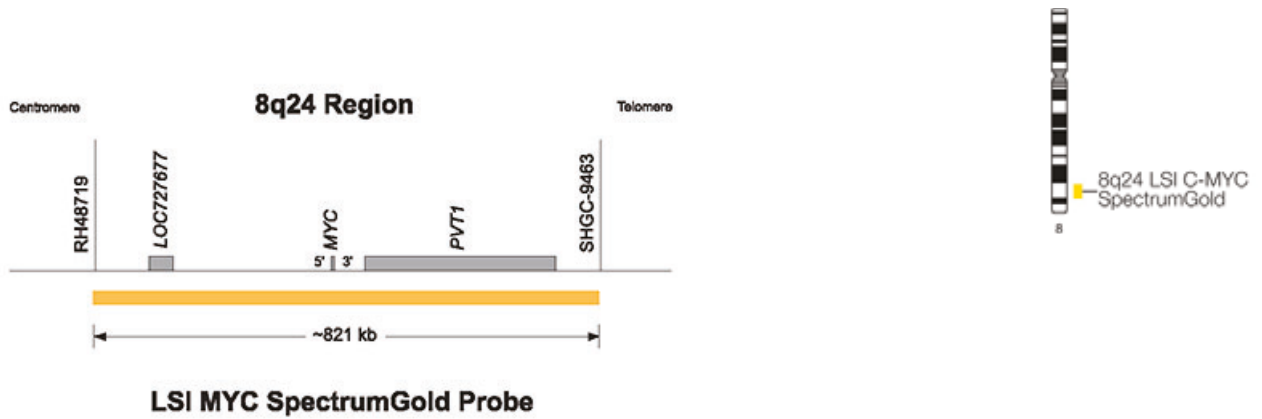
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC (8q24) SpectrumAqua Probe (ASR)	20 µL	02N22-020	00884999002739

PRODUCT DESCRIPTION

LSI MYC SpectrumAqua DNA probe hybridizes to human chromosome 8q24. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids. The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 8.

Chromosome 8

Vysis LSI MYC SpectrumGold Probe



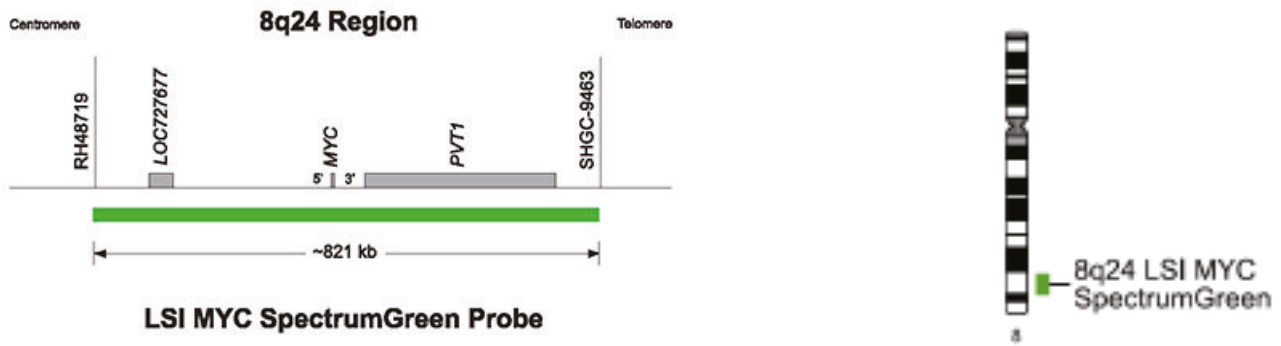
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC SpectrumGold Probe (ASR)	20 µL	04N35-020	00884999008342

PRODUCT DESCRIPTION

The SpectrumGold Vysis LSI MYC fluorescence in situ hybridization (FISH) probe is targeted to the 8q24 region on chromosome 8. The probe is ~744 kb in size and spans the MYC gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 8

Vysis LSI MYC SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MYC SpectrumGreen Probe (ASR)	20 µL	04N36-020	00884999008359

PRODUCT DESCRIPTION

The SpectrumGreen Vysis LSI MYC fluorescence in situ hybridization (FISH) probe is targeted to the 8q24 region on chromosome 8. The probe is ~744 kb in size and spans the MYC gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 8

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

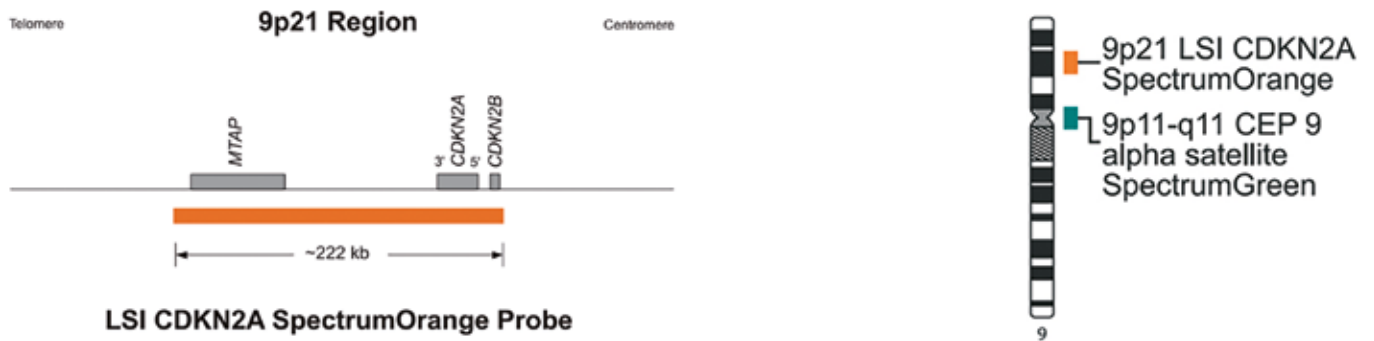
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 9

Vysis LSI CDKN2A SpectrumOrange / CEP 9 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes (ASR)	20 µL	05J51-001	00884999012004

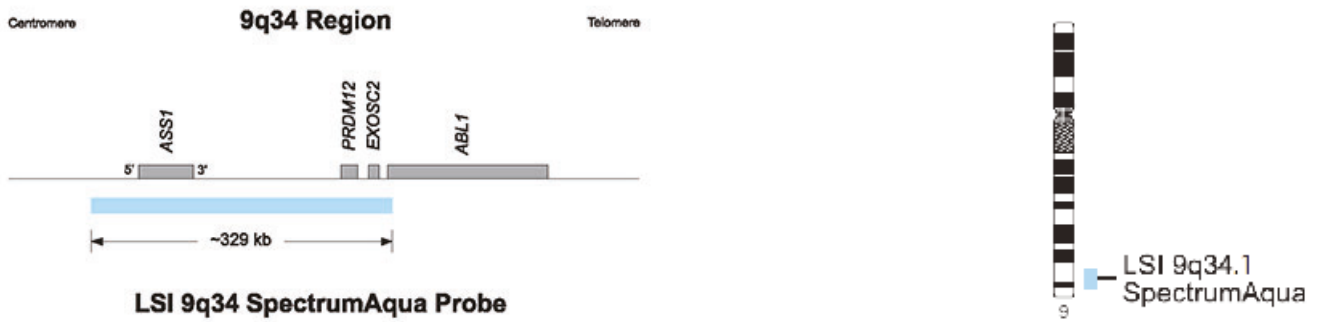
PRODUCT DESCRIPTION

Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes hybridize to the band 9p21 (SpectrumOrange) and the centromere of chromosome 9 (SpectrumGreen).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 9

Vysis LSI 9q34 SpectrumAqua Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 9q34 SpectrumAqua Probe (ASR)	20 µL	05J79-011	00884999012530

PRODUCT DESCRIPTION

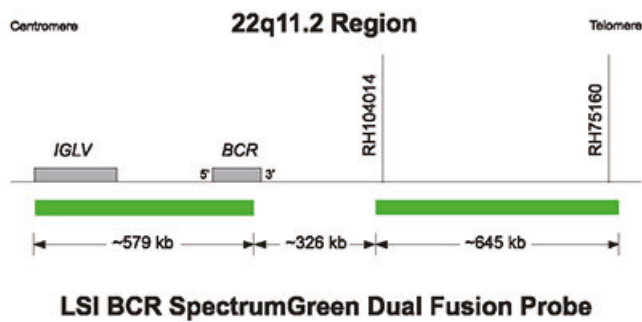
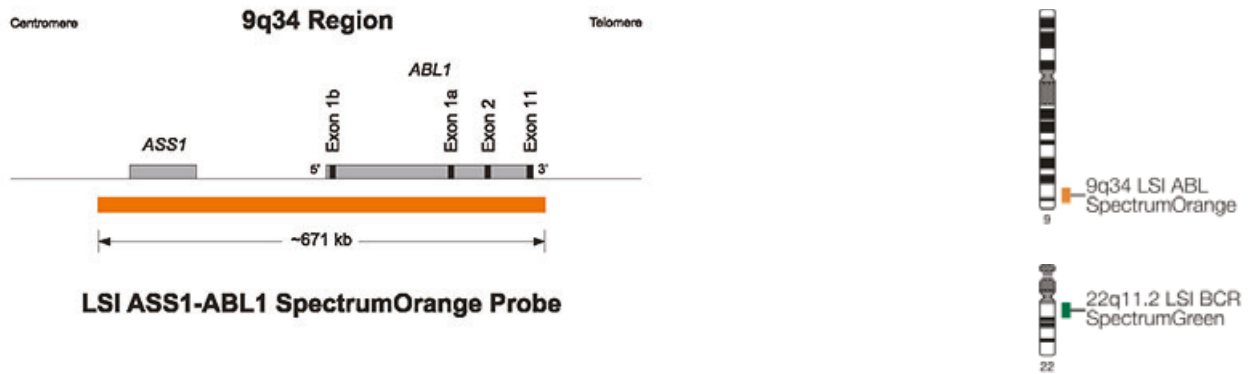
Vysis LSI 9q34 SpectrumAqua DNA probe hybridizes to human chromosome 9q34. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids.

The signals may also appear as diffuse or split signals. In a normal metaphase, the probe may appear as one or two signals on each chromosome 9.

Chromosome 9

Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	05J82-001	00884999012592
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	50 µL	05J82-010	00884999012615

**PRODUCT DESCRIPTION**

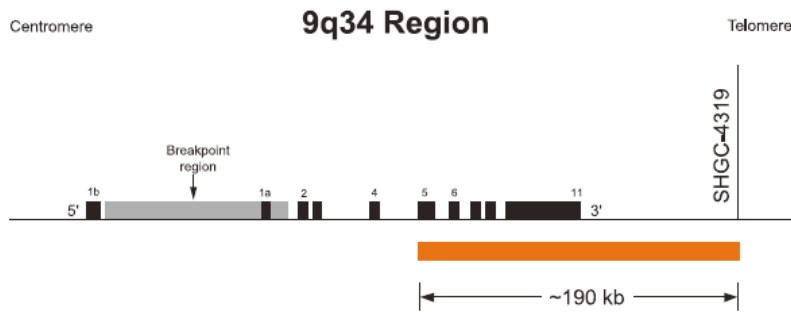
Vysis LSI BCR/ABL Dual Color, Dual Fusion Probes hybridize to chromosome 22q11.2 (breakpoint cluster region SpectrumGreen) and to chromosome 9q34 (abl oncogene SpectrumOrange).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

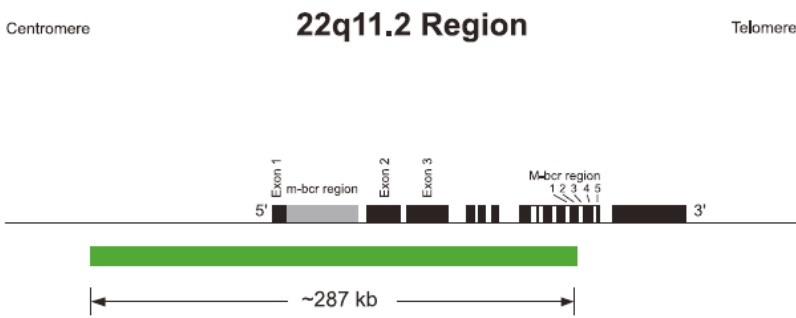
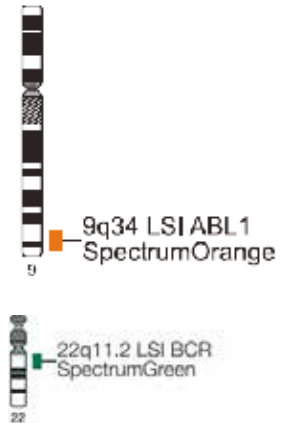


Chromosome 9

Vysis LSI BCR/ABL Dual Color, Single Fusion Translocation Probe



**LSI ABL1 SpectrumOrange Probe**



**LSI BCR SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe (ASR)	20 µL	05J77-001	00884999012462

**PRODUCT DESCRIPTION**

Vysis LSI BCR/ABL Dual Color, Single Fusion Probes hybridize to chromosome 9q34 (abl oncogene -SpectrumOrange) and chromosome 22q11.2 (breakpoint cluster region - SpectrumGreen).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 9

Vysis LSI CDKN2A SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CDKN2A SpectrumOrange Probe (ASR)	20 µL	05J51-003	00884999043664

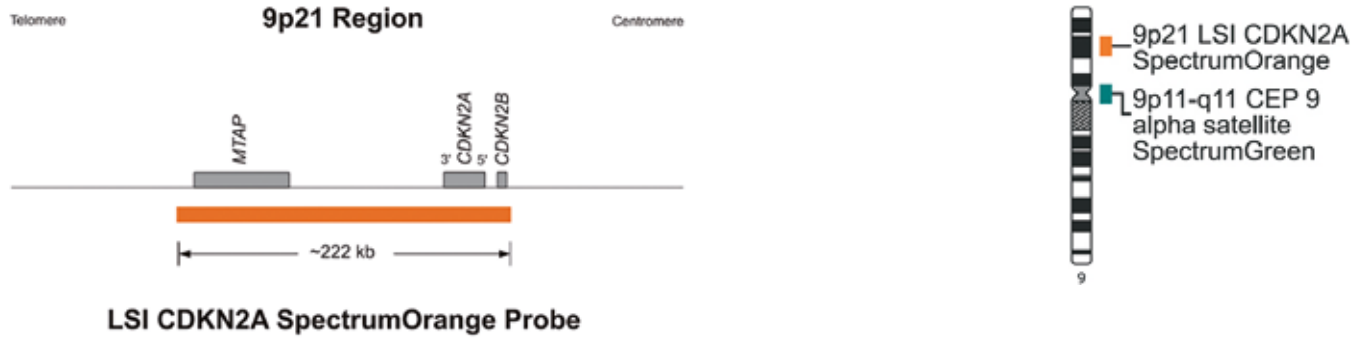
PRODUCT DESCRIPTION

The Vysis LSI CDKN2A SpectrumOrange fluorescence in situ hybridization (FISH) probe is targeted to the 9p21 region on chromosome 9. The probe is approximately 222 kb in size and contains the CDKN2A gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and metaphase chromosomes.

Chromosome 9

Vysis LSI CDK2NA SpectrumOrange / CEP 9 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes (ASR)	20 µL	05J51-001	00884999012004

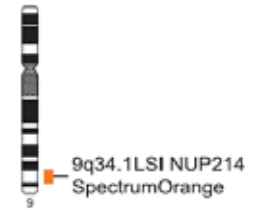
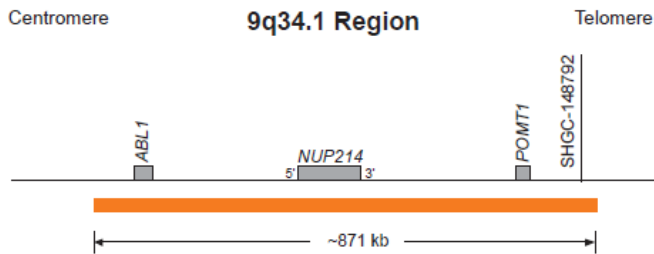
PRODUCT DESCRIPTION

Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes hybridize to the band 9p21 (SpectrumOrange) and the centromere of chromosome 9 (SpectrumGreen).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 9

Vysis LSI NUP214 SpectrumOrange Probe



Vysis LSI NUP214 SpectrumOrange Probe

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI NUP214 SpectrumOrange Probe (ASR)	20 µL	09N25-020	00884999046634

PRODUCT DESCRIPTION

The Vysis LSI NUP214 SpectrumOrange fluorescence in situ hybridization (FISH) probe is targeted to the 9q34.1 region on chromosome 9. The probe is approximately 871 kb in size and spans the NUP214 gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 9

Vysis LSI p16 (9p21) SpectrumRed Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI p16 (9p21) SpectrumRed Probe (ASR)	20 Assays	02N21-020	00884999002722

PRODUCT DESCRIPTION

LSI p16 SpectrumRed DNA probe hybridizes to human chromosome 9p21. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids. The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 9.

Chromosome 9

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

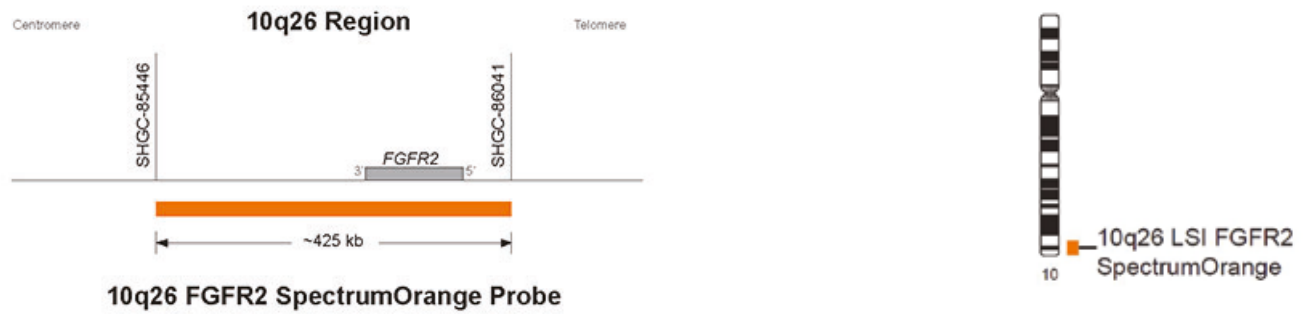
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 10

Vysis LSI FGFR2 SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI FGFR2 SpectrumOrange Probe (ASR)	20 µL	08N42-020	00884999042575

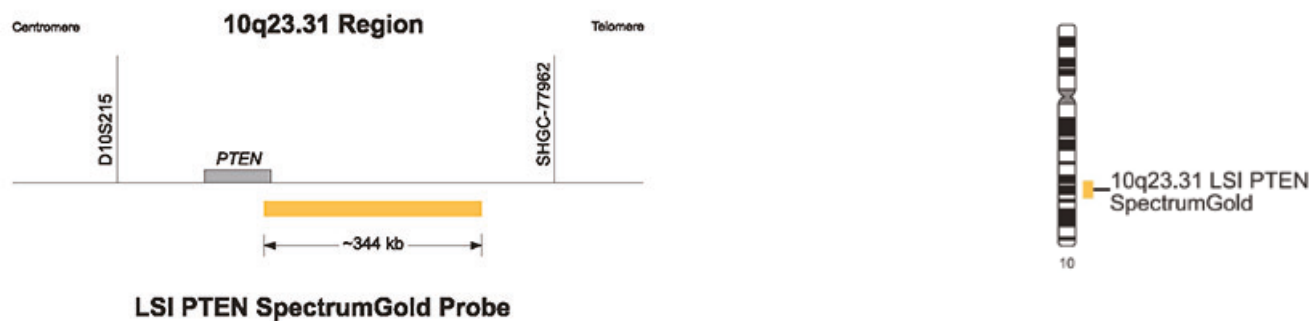
PRODUCT DESCRIPTION

The Vysis LSI FGFR2 SpectrumOrange fluorescence in situ hybridization (FISH) probe is targeted to the 10q26 region on chromosome 10. The probe is approximately 425 kb in size and contains the entire FGFR2 gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 10

# Vysis LSI PTEN SpectrumGold Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PTEN SpectrumGold Probe (ASR)	20 µL	07N73-020	00884999036451

## PRODUCT DESCRIPTION

The SpectrumGold Vysis LSI PTEN fluorescence in situ hybridization (FISH) probe is targeted to the 10q23.31 region on chromosome 10. The probe is approximately 344 kb in size and positioned telomeric of the PTEN gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 10

Vysis LSI PTEN SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PTEN SpectrumOrange Probe (ASR)	20 µL	07J74-003	00884999043268

PRODUCT DESCRIPTION

The Vysis LSI PTEN SpectrumOrange fluorescence in situ hybridization (FISH) probe is targeted to the 10q23 region on chromosome 10. The probe is approximately 368 kb in size and contains the PTEN gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and metaphase chromosomes.

Chromosome 10

Vysis LSI RET (Cen) SpectrumGreen Probe



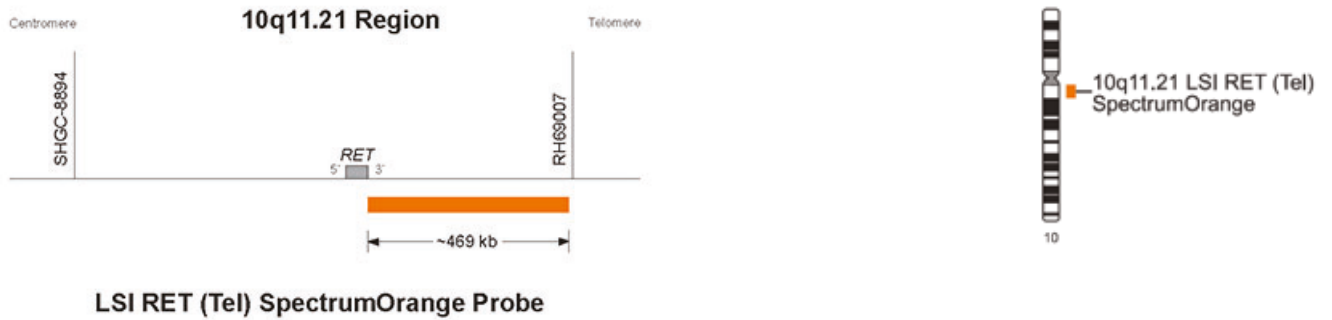
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RET (Cen) SpectrumGreen Probe (ASR)	20 µL	08N31-040	00884999038080

PRODUCT DESCRIPTION

The Vysis LSI RET (Cen) SpectrumGreen fluorescence in situ hybridization (FISH) probe is targeted to the 10q11 region on chromosome 10. The probe is approximately 545 kb in size and positioned centromeric to the RET gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 10

Vysis LSI RET (Tel) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RET (Tel) SpectrumOrange Probe (ASR)	20 µL	08N31-030	00884999038073

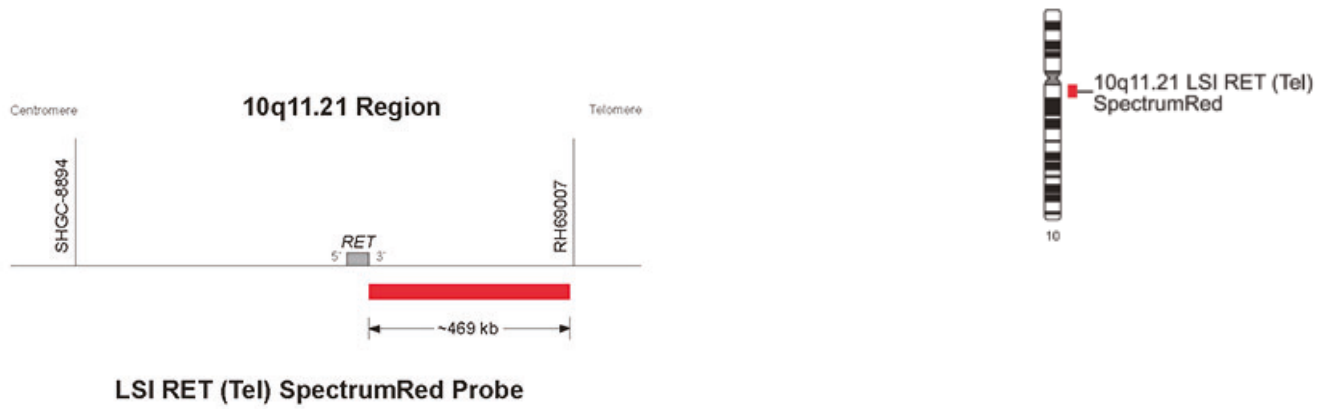
**PRODUCT DESCRIPTION**

The Vysis LSI RET (Tel) SpectrumOrange fluorescence in situ hybridization (FISH) probe is targeted to the 10q11 region on chromosome 10. The probe is approximately 469 kb in size and positioned telomeric to the RET gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 10

Vysis LSI RET (Tel) SpectrumRed Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI RET (Tel) SpectrumRed Probe (ASR)	20 µL	08N31-020	00884999038066

**PRODUCT DESCRIPTION**

The Vysis LSI RET (Tel) SpectrumRed fluorescence in situ hybridization (FISH) probe is targeted to the 10q11 region on chromosome 10. The probe is approximately 469 kb in size and positioned telomeric to the RET gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 10

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

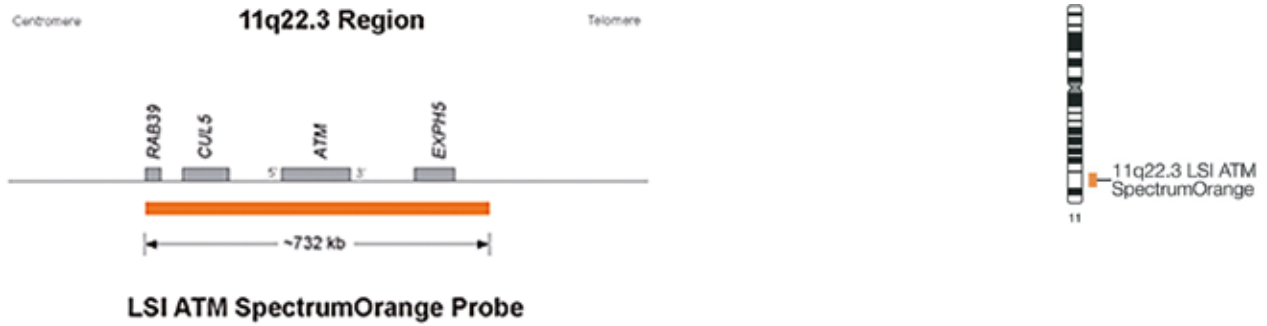
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 11

Vysis LSI ATM (11q22.3) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ATM (11q22.3) SpectrumOrange Probe (ASR)	20 µL	05J64-011	00884999012233

**PRODUCT DESCRIPTION**

Vysis LSI ATM (11q22.3) SpectrumOrange DNA probe hybridizes to band 11q22.3 on human chromosome 11.

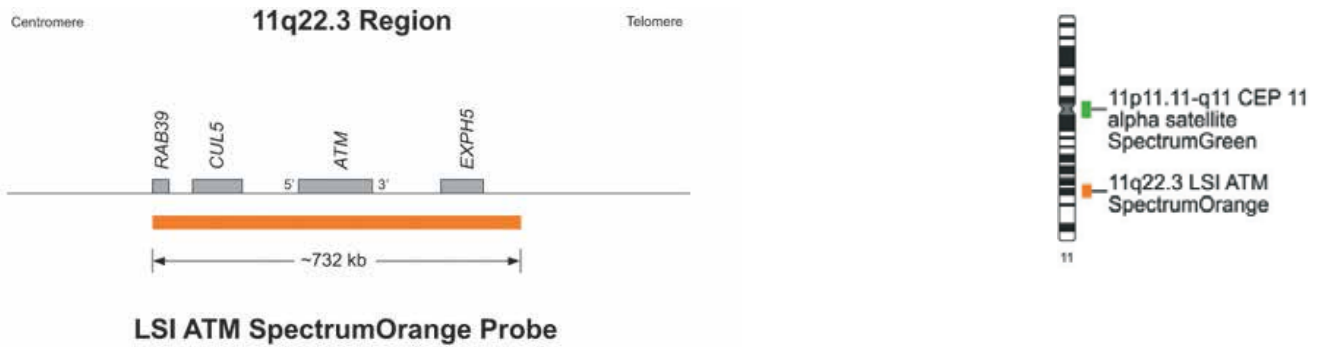
The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals.

Occasionally, the ATM probe may appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids.

The signals may also appear diffuse or split. In a normal metaphase, LSI ATM may appear as one or two signals on each chromosome 11.

Chromosome 11

Vysis LSI ATM SpectrumOrange / CEP 11 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ATM SpectrumOrange/CEP 11 SpectrumGreen Probes (ASR)	20 µL	01N18-020	00884999000537

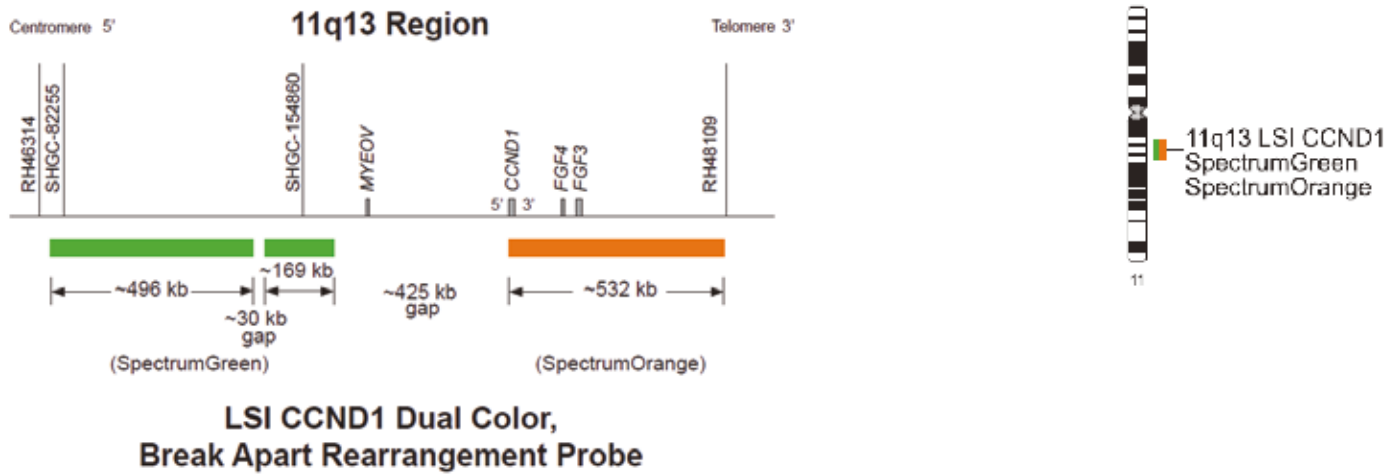
PRODUCT DESCRIPTION

Vysis LSI ATM SpectrumOrange/CEP 11 SpectrumGreen Probes is 500 kb in size and hybridizes with a SpectrumOrange signal across the ATM gene on the 11q22.3 region of chromosome 11.

CEP 11 is labeled in SpectrumGreen and hybridizes to the 11p11.1-q11 region of chromosome 11.

Chromosome 11

Vysis LSI CCND1 (11q13) Dual Color, Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CCND1 Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J96-001	00884999013445

PRODUCT DESCRIPTION

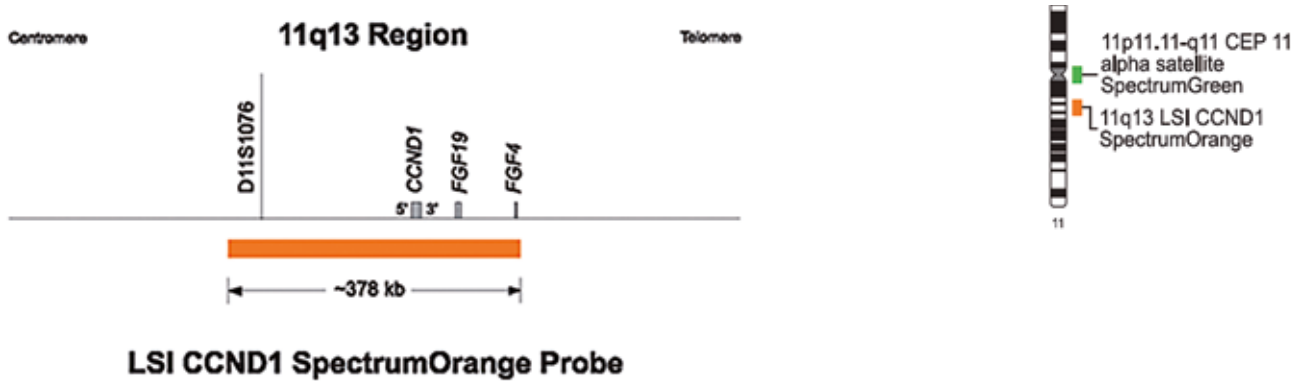
LSI Vysis LSI CCND1 Dual Color, Break Apart Rearrangement Probe hybridizes to the band 11q13 (SpectrumGreen on the 5' (centromeric) side and SpectrumOrange on the 3' (telomeric) side of the CCND1 locus breakpoints).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 11

Vysis LSI CCND1 SpectrumOrange / CEP 11 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CCND1 SpectrumOrange/ CEP 11 SpectrumGreen Probes (ASR)	20 µL	05J41-001	00884999011755

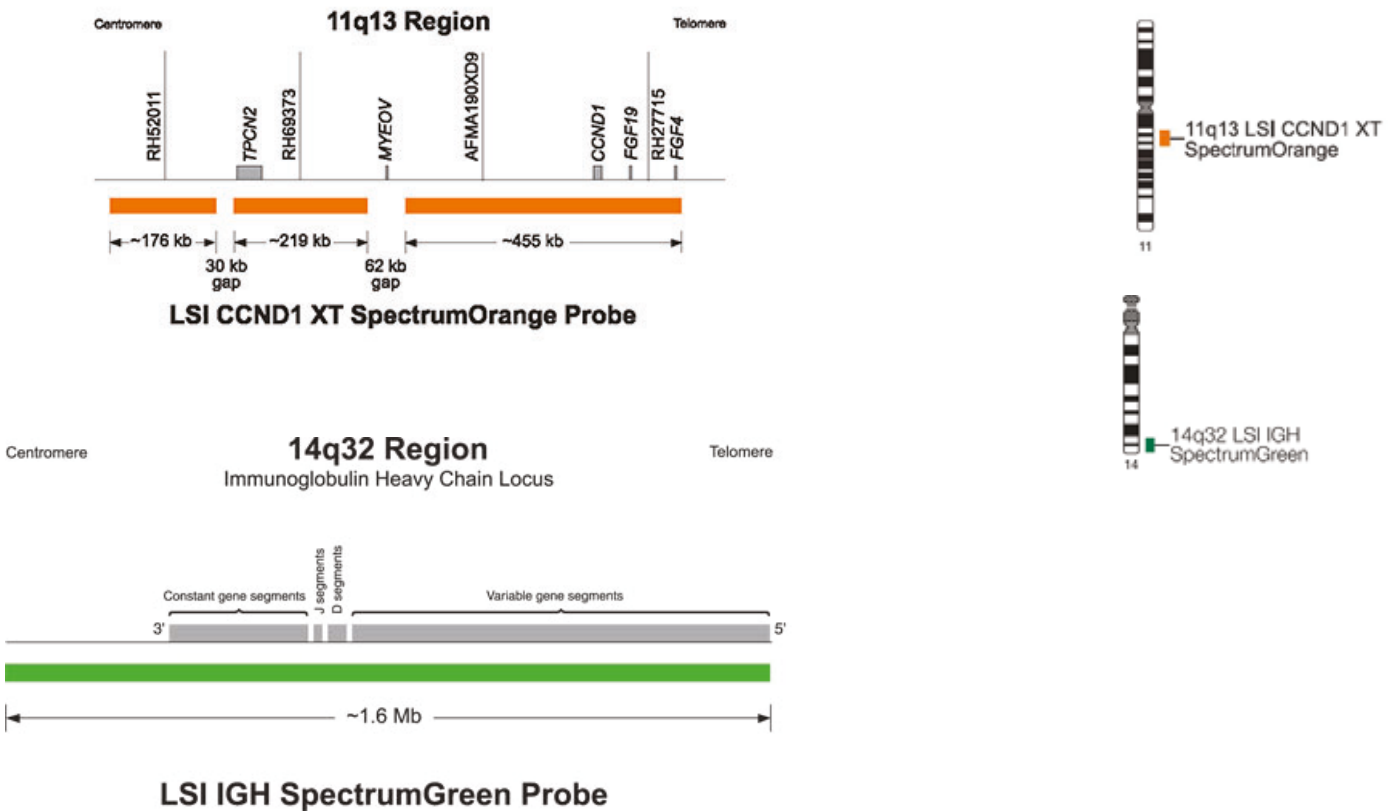
**PRODUCT DESCRIPTION**

Vysis LSI CCND1 SpectrumOrange/CEP 11 SpectrumGreen Probes hybridize to band 11q13 (LSI Cyclin D1 SpectrumOrange) and to the centromere, band region 11p11.11-q11, locus D11Z1(CEP 11 SpectrumGreen) of human chromosome 11.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 11

Vysis LSI IGH/CCND1 XT Dual Color, Dual Fusion Translocation Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/CCND1 XT Dual Color, Dual Fusion Translocation Probes (ASR)	20 µL	05J72-001	00884999012370

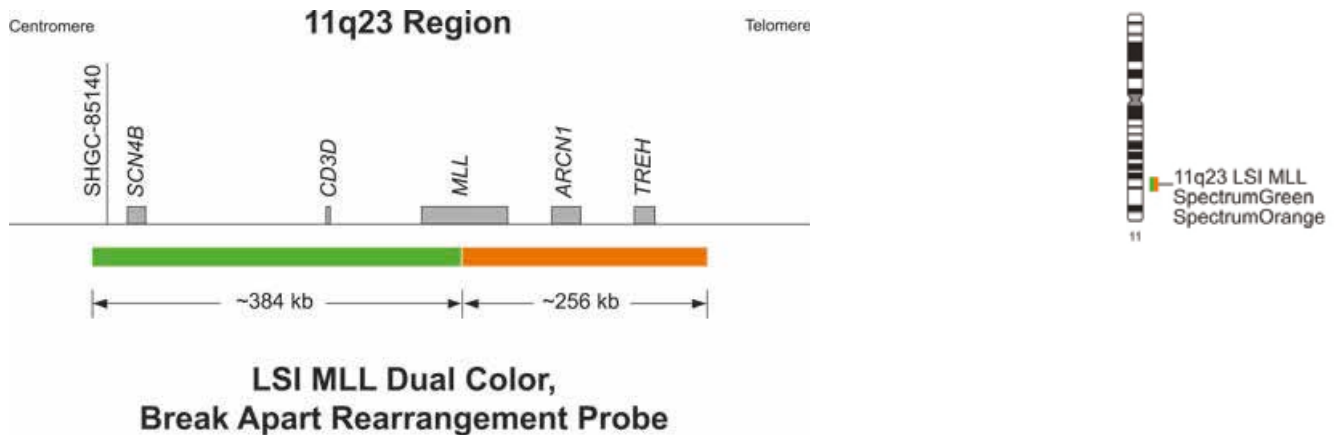
PRODUCT DESCRIPTION

Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 11q13(CCND1 Spectrum Orange).

This probe is useful for the detection of the translocation t(11;14)(q13; q32). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 11

Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J90-001	00884999012837

PRODUCT DESCRIPTION

Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe hybridizes to the band 11q23 (SpectrumGreen on the centromeric side and SpectrumOrange on the telomeric side of the MLL gene breakpoint).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 11

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

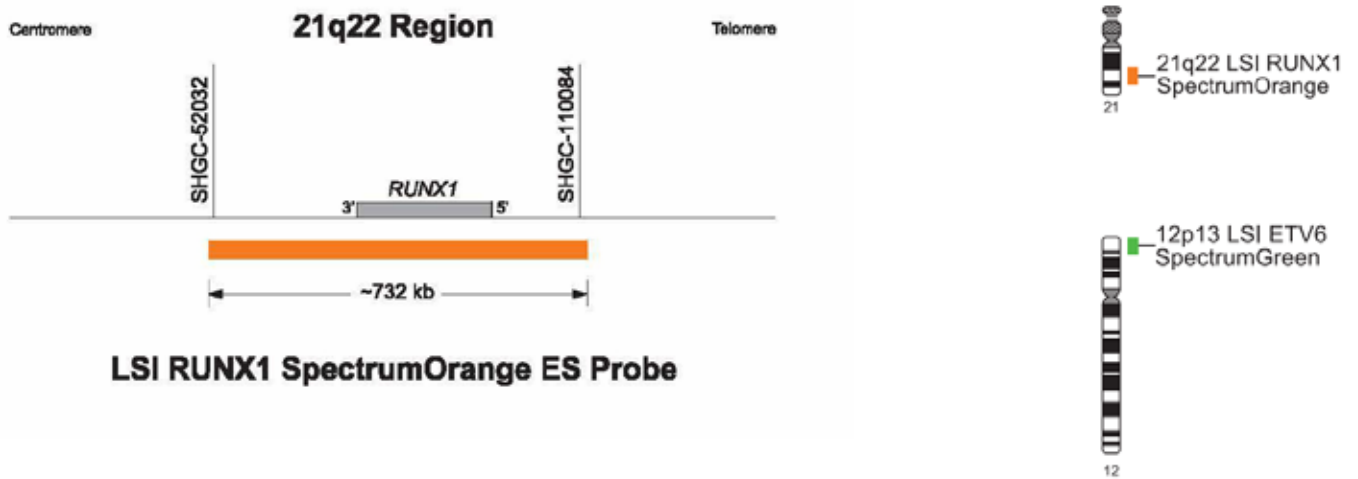
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup> Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 12

Vysis LSI ETV6 (Tel) / RUNX1 (AML1) ES Dual Color Single Fusion Probe



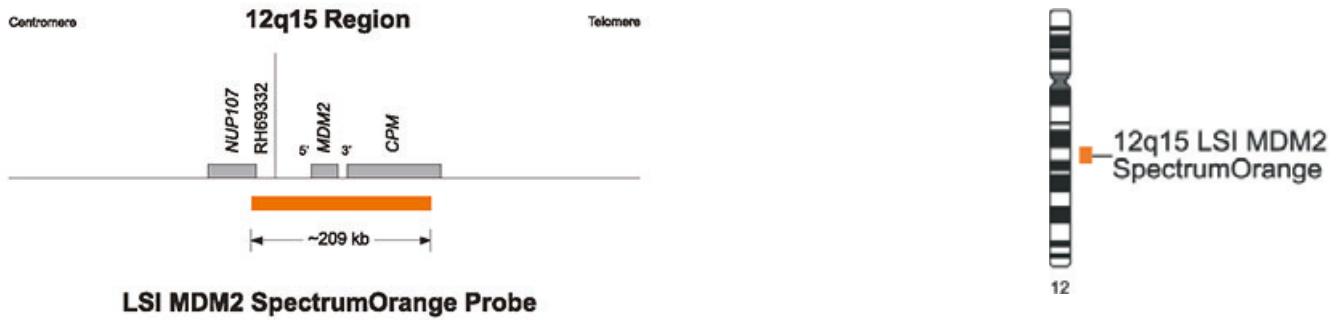
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Single Fusion Probe (ASR)	20 µL	05J62-001	00884999012202

PRODUCT DESCRIPTION

Vysis LSI ETV6 (TEL) / RUNX1 (AML1) ES Dual Color Single Fusion Probe hybridizes to chromosome 12p13 (SpectrumGreen TEL - ETV6) and to chromosome 21q22 (SpectrumOrange AML1). The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 12

Vysis LSI MDM2 SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MDM2 SpectrumOrange Probe (ASR)	20 µL	01N15-020	00884999000513

PRODUCT DESCRIPTION

The SpectrumOrange Vysis LSI MDM2 fluorescence in situ hybridization (FISH) probe is targeted to the 12q15 region on chromosome 12. The probe is ~209 kb in size and spans the MDM2 gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 12

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

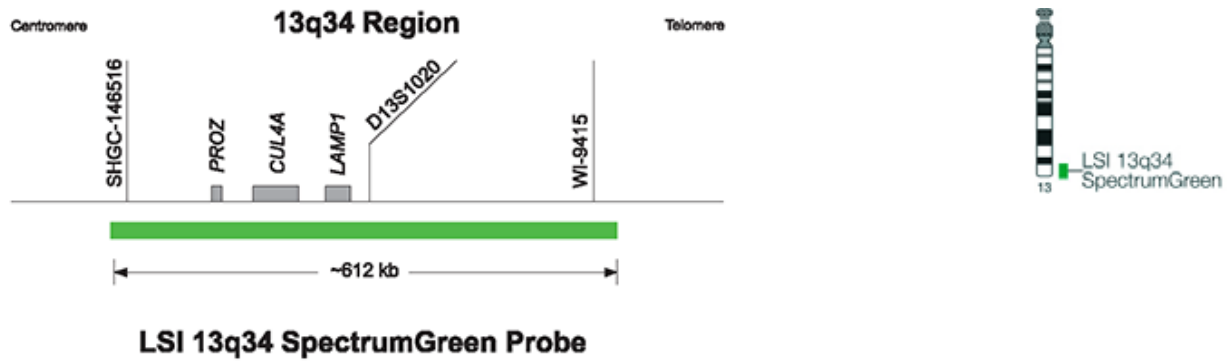
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 13

Vysis LSI (13q34) SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI (13q34) SpectrumGreen Probe (ASR)	20 µL	05J80-011	00884999012561

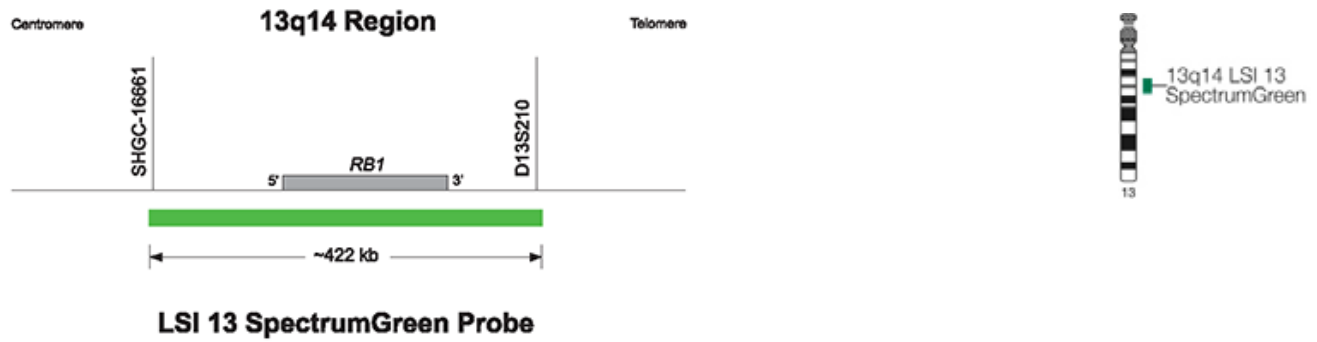
PRODUCT DESCRIPTION

Vysis LSI 13q34 SpectrumGreen DNA probe hybridizes to human chromosome 13q34. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids. The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 13.



Chromosome 13

Vysis LSI 13 (13q14) SpectrumGreen Probe



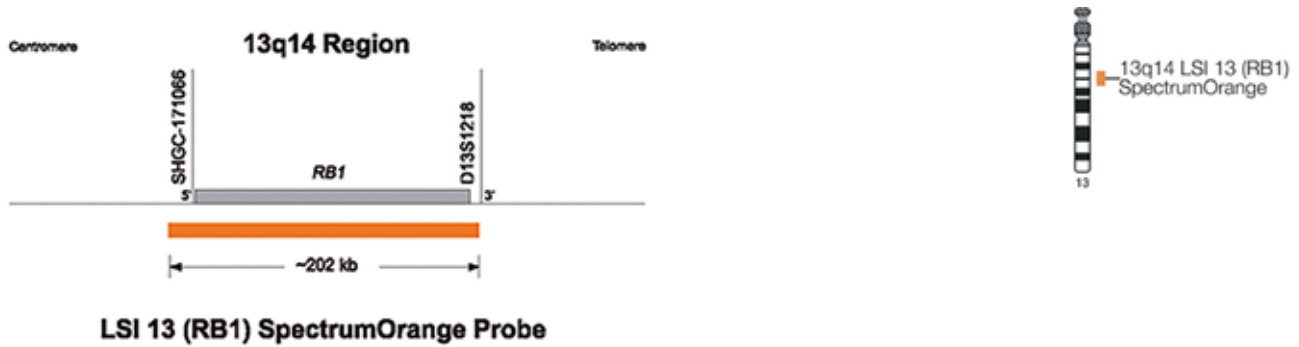
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 (13q14) SpectrumGreen Probe (ASR)	20 µL	05J14-028	00884999011199

PRODUCT DESCRIPTION

Vysis LSI 13 (13q14) SpectrumGreen DNA probe hybridizes to band 13q14, spanning the RB-1 region of human chromosome 13. The hybridized probe fluoresces with moderate intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. It may also appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids. The signals may also appear diffuse or split. In a normal metaphase, the probe may appear as one or two signals on each chromosome 13.

Chromosome 13

Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 13 (RB1) 13q14 SpectrumOrange Probe (ASR)	20 µL	05J15-011	00884999011212

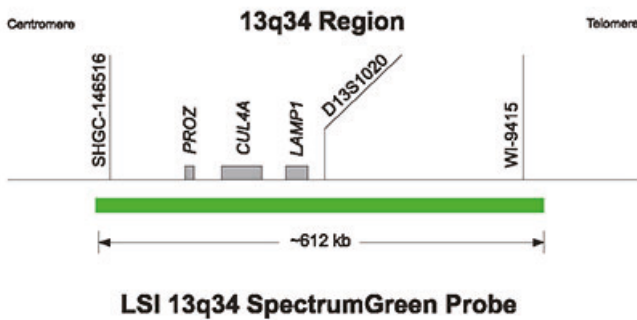
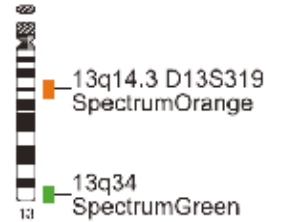
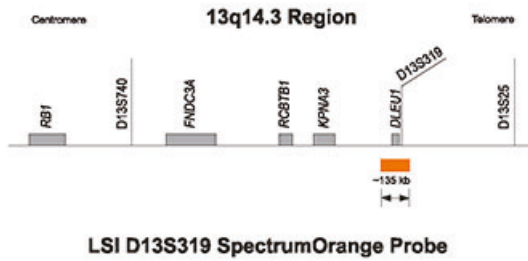
PRODUCT DESCRIPTION

Vysis LSI 13 (RB1) 13q14 SpectrumOrange DNA probe hybridizes to band 13q14 of human chromosome 13. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals.

It may also appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids. The signals may also appear diffuse or split. In a normal metaphase, the probe may appear as one or two signals on each chromosome 13.

Chromosome 13

Vysis LSI D13S319 (13q14.3) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D13S319 (13q14.3) SpectrumOrange Probe (ASR)	20 µL	05J86-011	00884999012769

**PRODUCT DESCRIPTION**

Vysis LSI D13S319 (13q14.3) SpectrumOrange DNA probe hybridizes to the band 13q14.3, locus D13S319 of human chromosome 13. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. Occasionally, it may appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids.

The signals may also appear diffuse or split. In a normal metaphase, LSI D13S319 may appear as one or two signals on each chromosome 13.

Chromosome 13

Vysis FOXO1 (Cen) SpectrumGreen Probe



**LSI FOXO1 (Cen) SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI FOXO1 (Cen) SpectrumGreen Probe (ASR)	20 µL	05J48-014	00884999041516

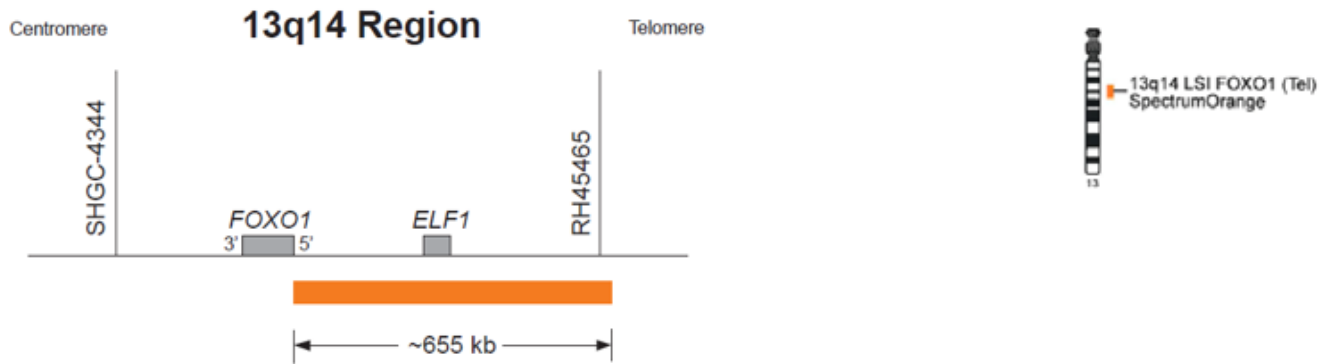
**PRODUCT DESCRIPTION**

The SpectrumGreen Vysis LSI FOXO1 (Cen) fluorescence in situ hybridization (FISH) probe is targeted to the 13q14 region on chromosome 13. The probe is approximately 724 kb in size and is located centromeric of the FOXO1 gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and metaphase chromosomes.

Chromosome 13

Vysis FOXO1 (Tel) SpectrumOrange Probe



**LSI FOXO1 (Tel) SpectrumOrange Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI FOXO1 (Tel) SpectrumOrange Probe (ASR)	20 µL	05J48-013	00884999041509

**PRODUCT DESCRIPTION**

The SpectrumOrange Vysis LSI FOXO1 (Tel) fluorescence in situ hybridization (FISH) probe is targeted to the 13q14 region on chromosome 13. The probe is approximately 655kb in size and is located telomeric of the FOXO1 gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and metaphase chromosomes.

Chromosome 13

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

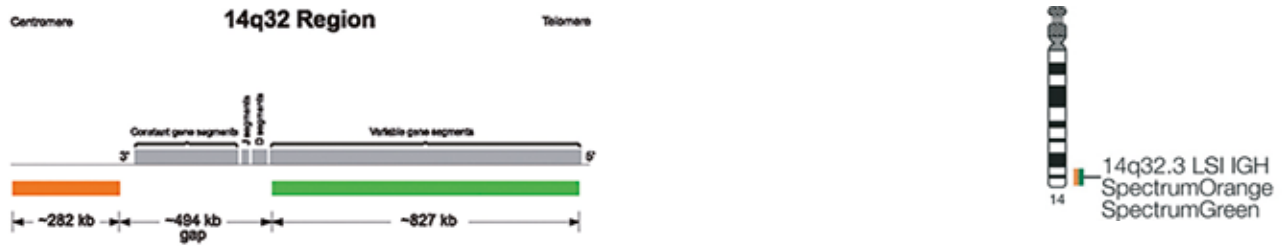
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 14

Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe



**LSI IGH Dual Color, Break Apart Rearrangement Probe**

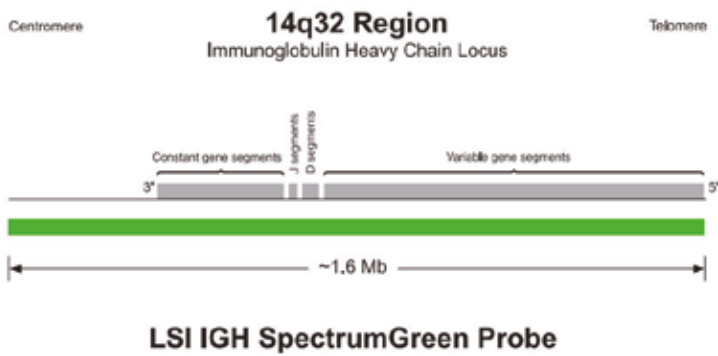
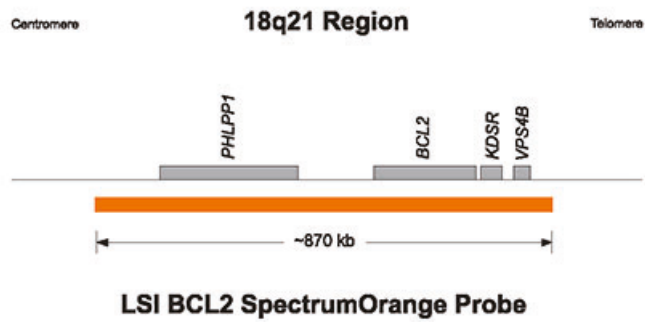
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J73-001	00884999012394

**PRODUCT DESCRIPTION**

Vysis LSI IGH Dual Color Break Apart Rearrangement Probe hybridizes to the band 14q32.3 (SpectrumGreen on the telomeric side and SpectrumOrange on the centromeric side of the IGH locus breakpoints). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 14

Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes (ASR)	20 µL	05J71-001	00884999012356

PRODUCT DESCRIPTION

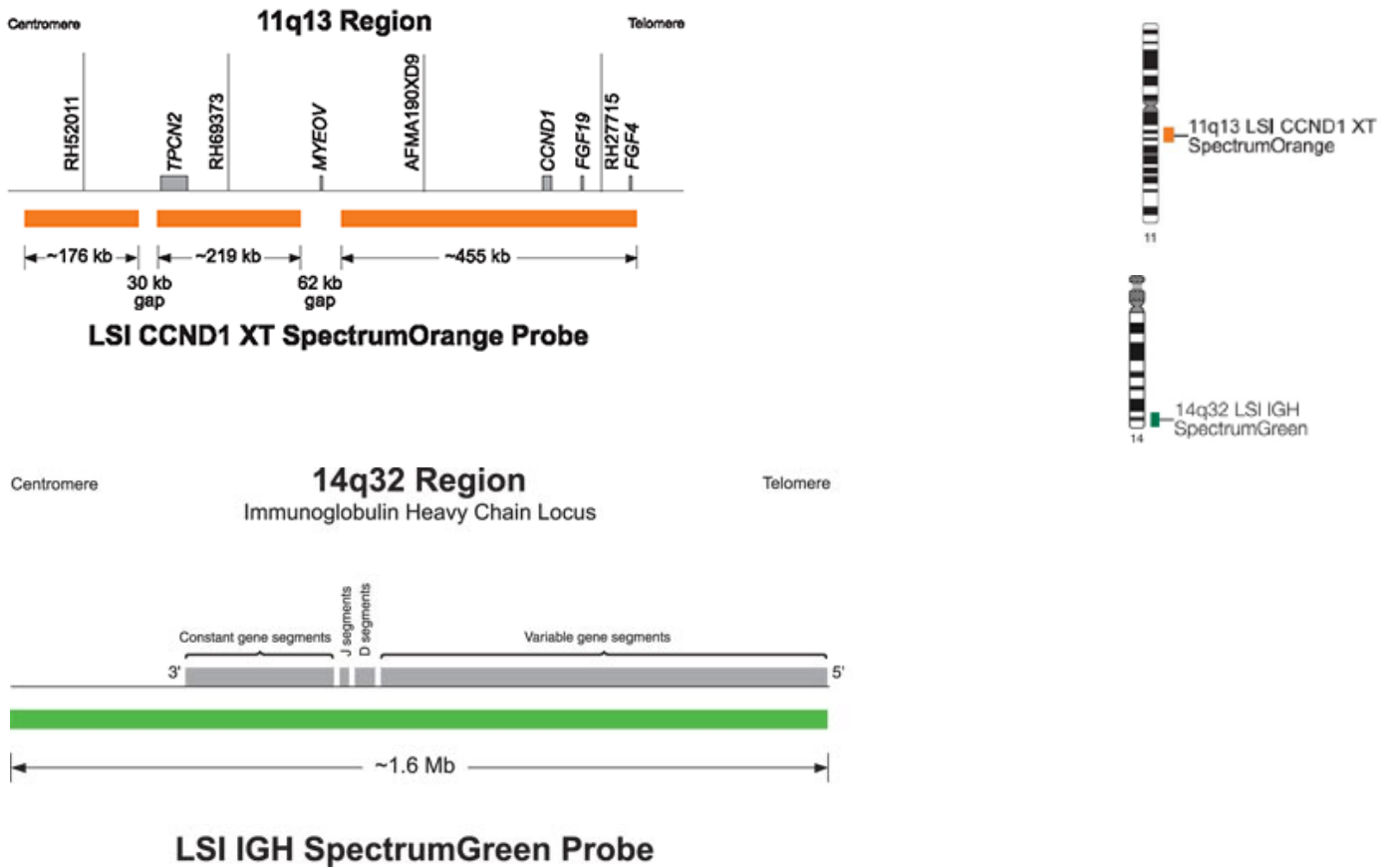
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 18q21 (BCL2 SpectrumOrange).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 14

Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes (ASR)	20 µL	05J72-001	00884999012370

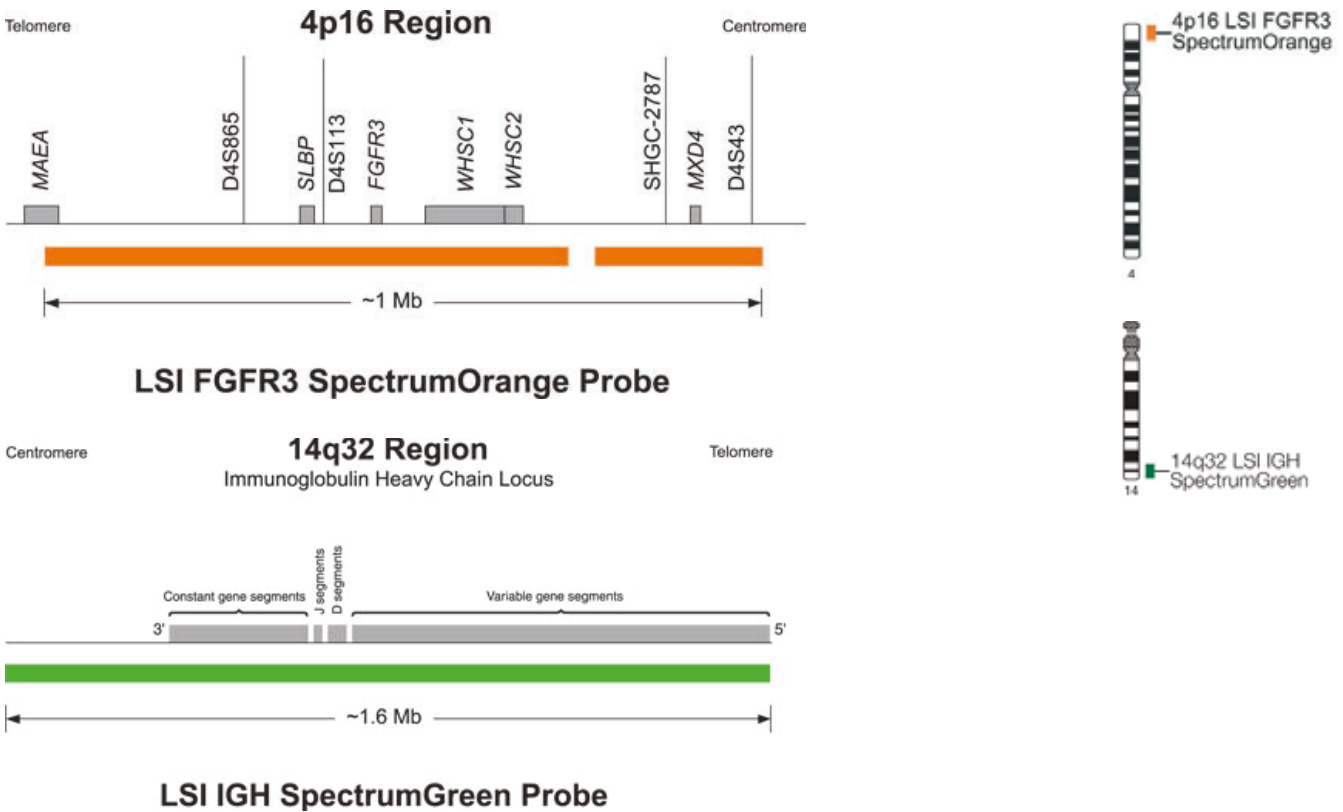
PRODUCT DESCRIPTION

Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 11q13(CCND1 Spectrum Orange). This probe is useful for the detection of the translocation t(11;14)(q13; q32).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 14

Vysis LSI IGH/FGFR3 Dual Color, Dual Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes (ASR)	20 µL	05J74-001	00884999012417

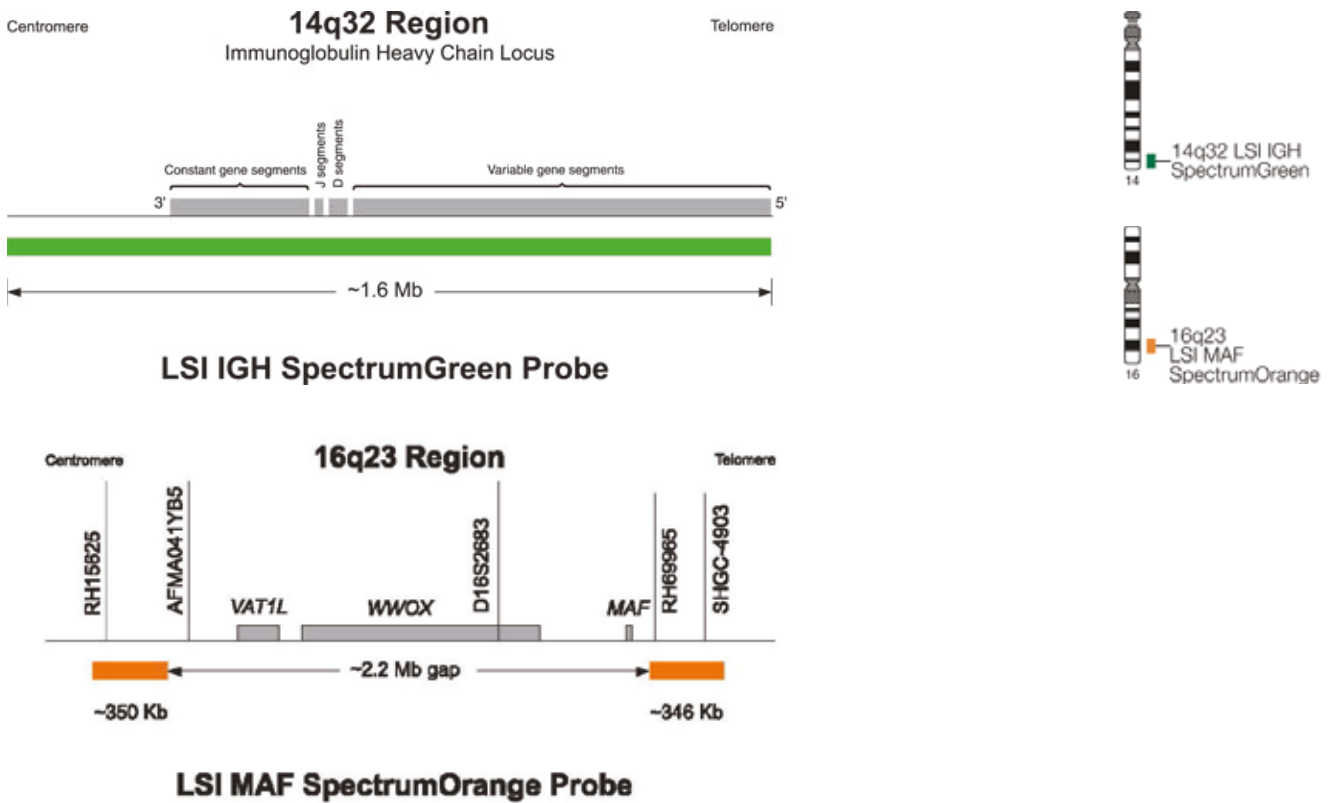
PRODUCT DESCRIPTION

Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 4p16 (FGFR3 SpectrumOrange).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 14

Vysis LSI IGH/MAF Dual Color, Dual Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MAF Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-004	00884999012691

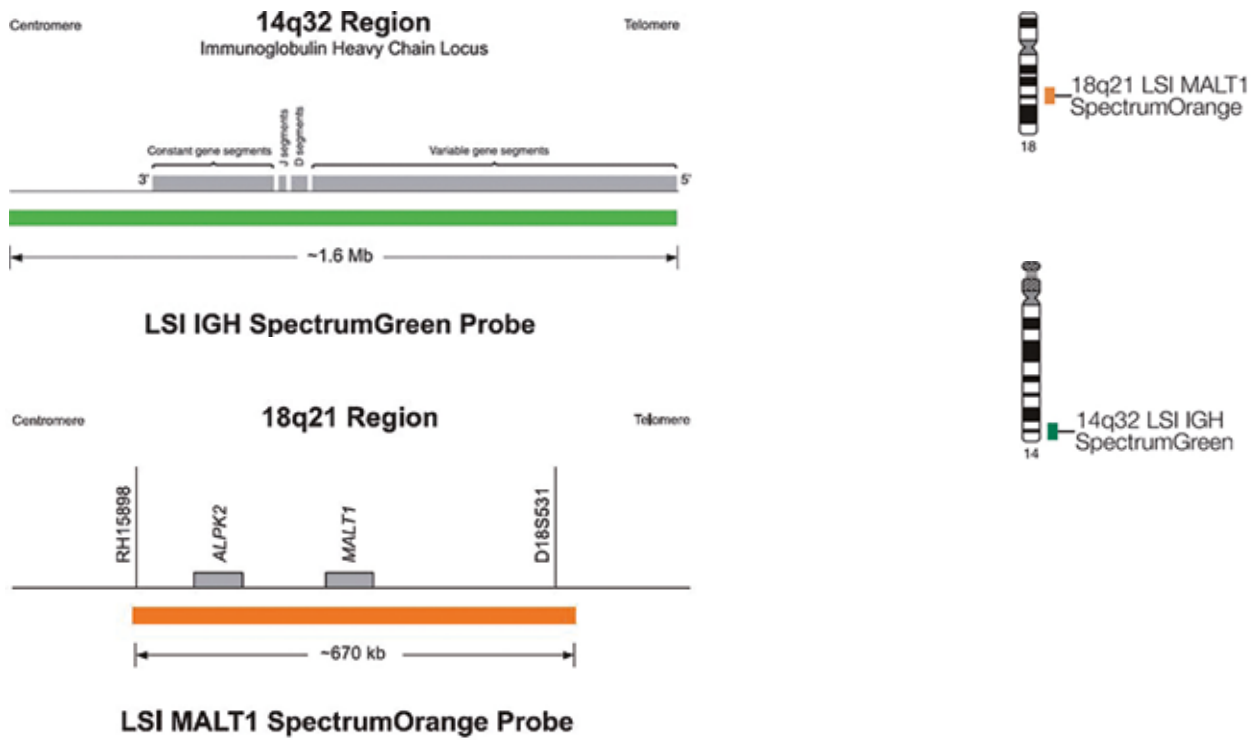
PRODUCT DESCRIPTION

Vysis LSI IGH/MAF Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 16q23 (MAF SpectrumOrange).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 14

Vysis LSI IGH/MALT1 Dual Color, Dual Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-001	00884999012660

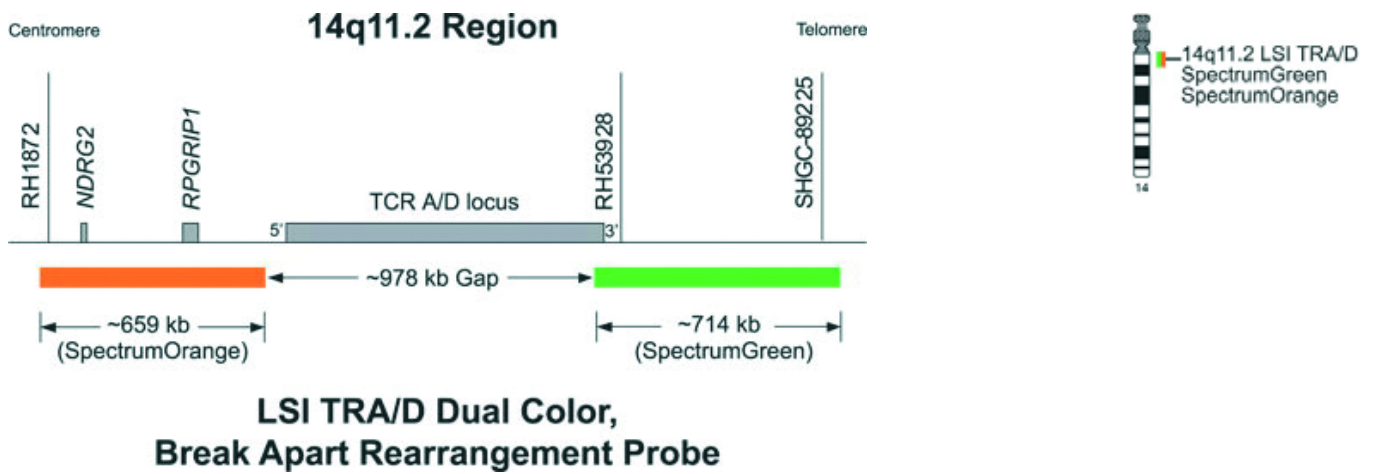
PRODUCT DESCRIPTION

Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 18q21 (MALT1 SpectrumOrange).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 14

Vysis LSI TRA/D Dual Color Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TRA/D Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	01N78-020	00884999001015

PRODUCT DESCRIPTION

Vysis LSI TRA/D Dual Color Break Apart Rearrangement Probe hybridizes to chromosome 14q11.2 in both SpectrumOrange and SpectrumGreen.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 14

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

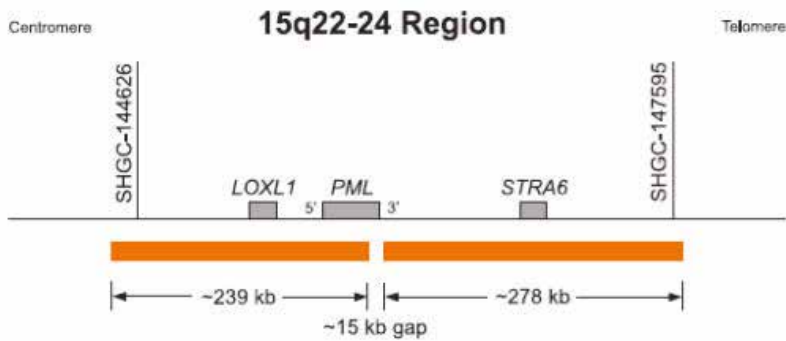
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

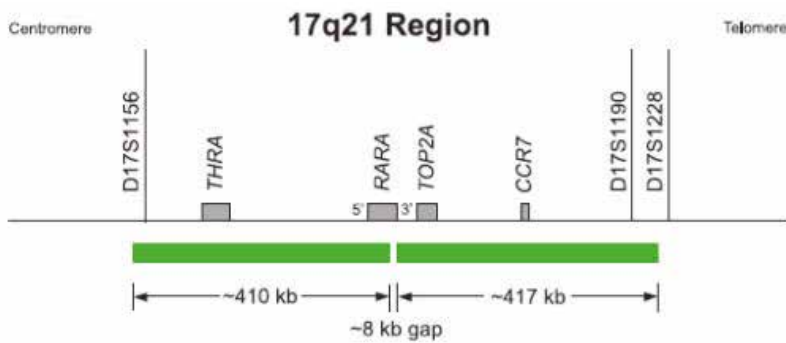
<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 15

Vysis LSI PML/RARA Dual Color, Dual Fusion Probe



**LSI PML SpectrumOrange  
Dual Color, Dual Fusion Probe**



**LSI RARA SpectrumGreen  
Dual Color, Dual Fusion Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PML/RARA Dual Color, Dual Fusion Probe (ASR)	20 µL	05J70-001	00884999012325

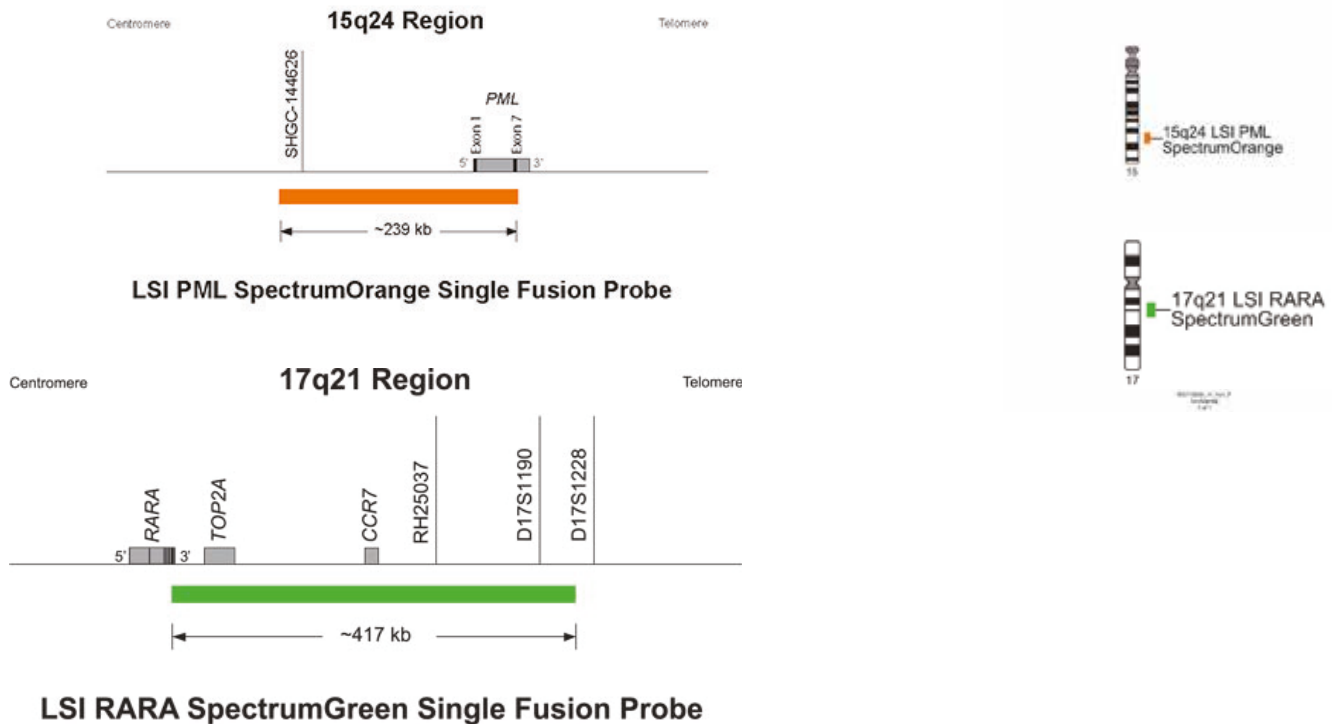
**PRODUCT DESCRIPTION**

Vysis LSI PML/RARA Dual Color Dual Fusion Probes hybridizes to chromosome 15q22-24 (PML SpectrumOrange) and chromosome 17q21 (Retinoic Acid Receptor  $\alpha$  SpectrumGreen).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 15

Vysis LSI PML/RARA Dual Color Single Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257

PRODUCT DESCRIPTION

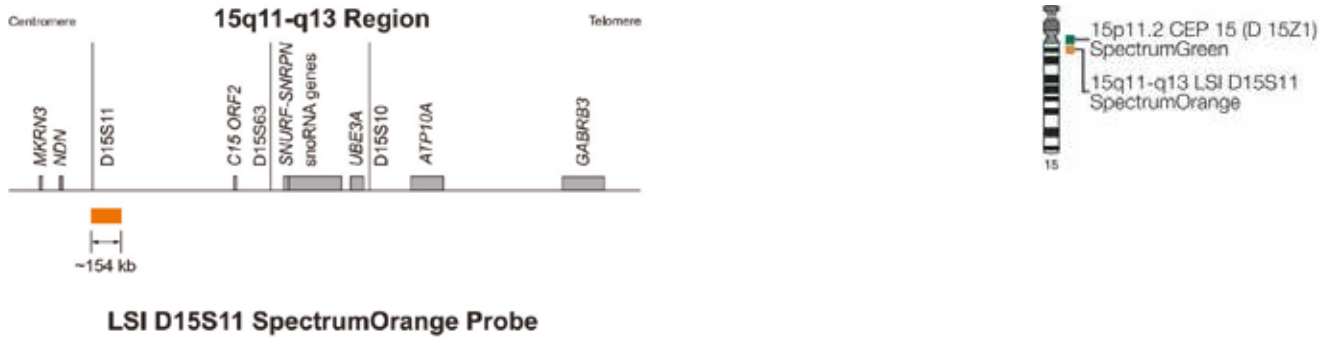
Vysis LSI PML/RARA Dual Color Single Fusion Probes hybridize to chromosome 15q22-24 (PML SpectrumOrange) and chromosome 17q21 (Retinoic Acid Receptor A SpectrumGreen).

This probe is useful for the detection of the translocation t(15;17)(q22;q21). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 15

Vysis Prader-Willi/Angelman Region LSI D15S11 SpectrumOrange / CEP 15 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Prader-Willi/Angelman Region LSI D15S11 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J19-014	00884999011274

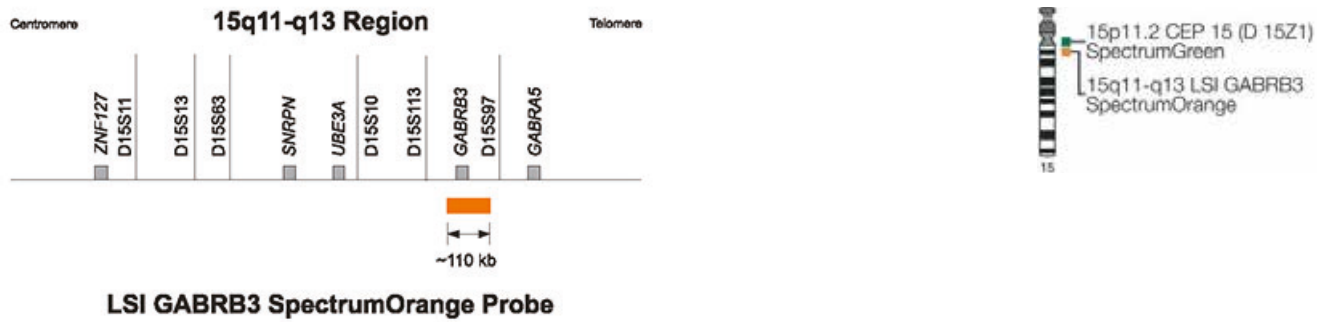
PRODUCT DESCRIPTION

Vysis Prader-Willi/Angelman Region LSI D15S11 SpectrumOrange/CEP 15 SpectrumGreen Probes hybridize to chromosome 15q11-13 (SpectrumOrange D15S11), and hybridizes to the satellite III region (band region 15p11.2, locus D15Z1) of human chromosome 15.

The hybridized probe fluoresces with moderate to bright intensity in interphase nuclei and on metaphase chromosomes.

Chromosome 15

Vysis Prader-Willi/Angelman Region LSI GABRB3 SpectrumOrange / CEP 15 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Prader-Willi/Angelman Region LSI GABRB3 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J22-015	00884999011366

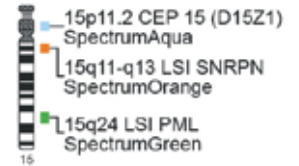
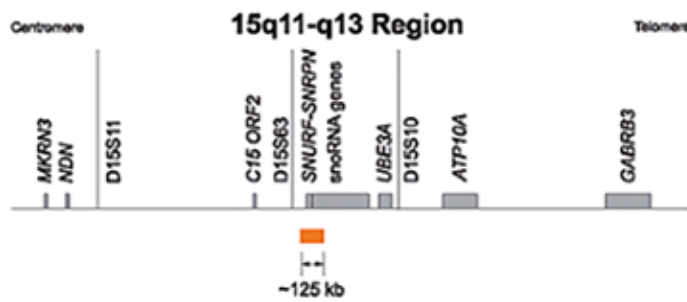
PRODUCT DESCRIPTION

Vysis Prader-Willi/Angelman Region LSI GABRB3 SpectrumOrange/CEP 15 SpectrumGreen Probes hybridizes to chromosome 15q11-13 (SpectrumOrange GABRB3), and hybridizes to the satellite III region (band region 15p11.2, locus D15Z1) of human chromosome 15.

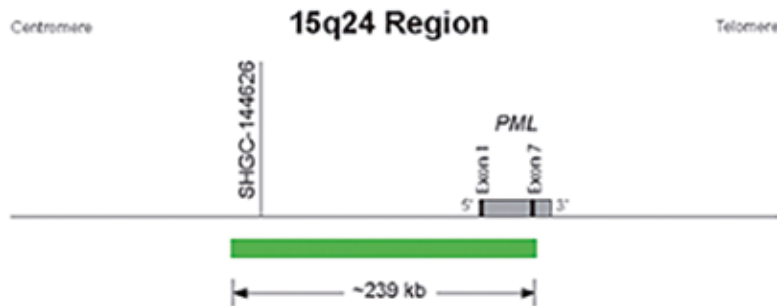
The hybridized probe fluoresces with moderate to bright intensity in interphase nuclei and on metaphase chromosomes.

Chromosome 15

Vysis LSI SNRPN SpectrumOrange / CEP 15 SpectrumAqua / PML SpectrumGreen Probes



**LSI SNRPN SpectrumOrange Probe**



**LSI PML SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SNRPN SpectrumOrange / CEP 15 SpectrumAqua / PML SpectrumGreen Probes (ASR)	10 µL	01N12-010	00884999000476

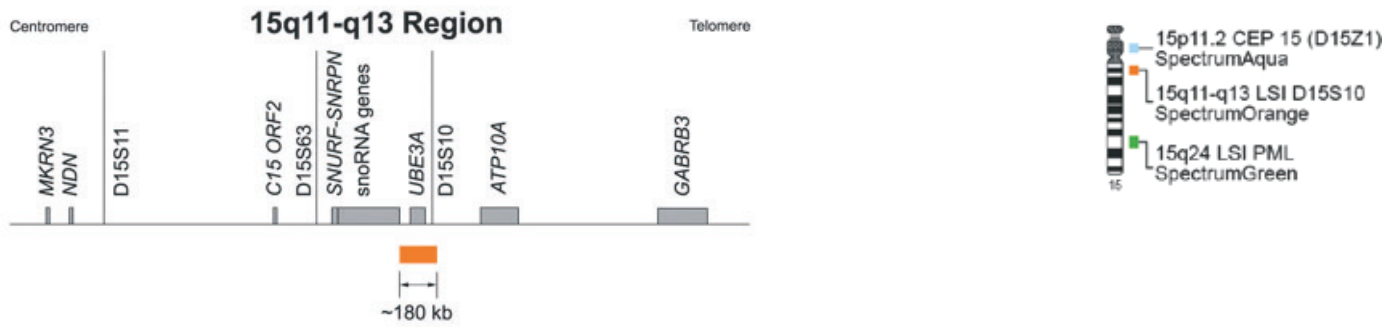
**PRODUCT DESCRIPTION**

The SpectrumOrange SNRPN probe hybridizes to 15q11.2. The probe is 125 kb in size and spans the SNRPN gene. The CEP 15 probe is labeled in SpectrumAqua and hybridizes to the centromeric region of chromosome 15 and acts as a control probe. The PML SpectrumGreen probe hybridizes to the 15q22-24 region and is 180 kb in size.

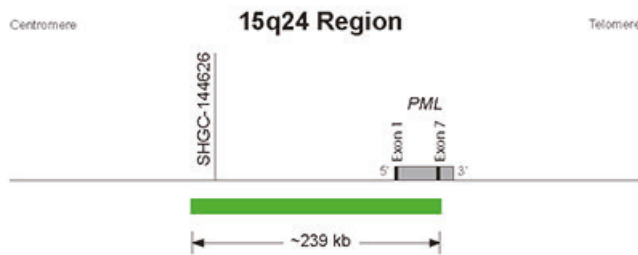
The probe may be used with metaphase chromosomes or interphase nuclei. The signals may also appear diffuse or split depending upon the condensation of the DNA and the relative distances between chromatids. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 15

Vysis LSI D15S10 SO / CEP 15 SA / PML SGN Probes



**LSI D15S10 SpectrumOrange Probe**



**LSI PML SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI D15S10 SO / CEP 15 SA / PML SGN Probes (ASR)	10µl	01N13-010	00884999000483

**PRODUCT DESCRIPTION**

The SpectrumOrange D15S10 probe hybridizes to 15q11-q13. The probe is ~150 kb in size and spans the D15S10 STS marker. The CEP 15 probe is labeled in SpectrumAqua and hybridizes to the centromeric region of chromosome 15 and acts as a control probe. The PML SpectrumGreen probe hybridizes to the 15q22-q24 region and is ~180 kb in size.

The probe may be used with metaphase chromosomes or interphase nuclei. The signals may also appear diffuse or split depending upon the condensation of the DNA and the relative distances between chromatids. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 15

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

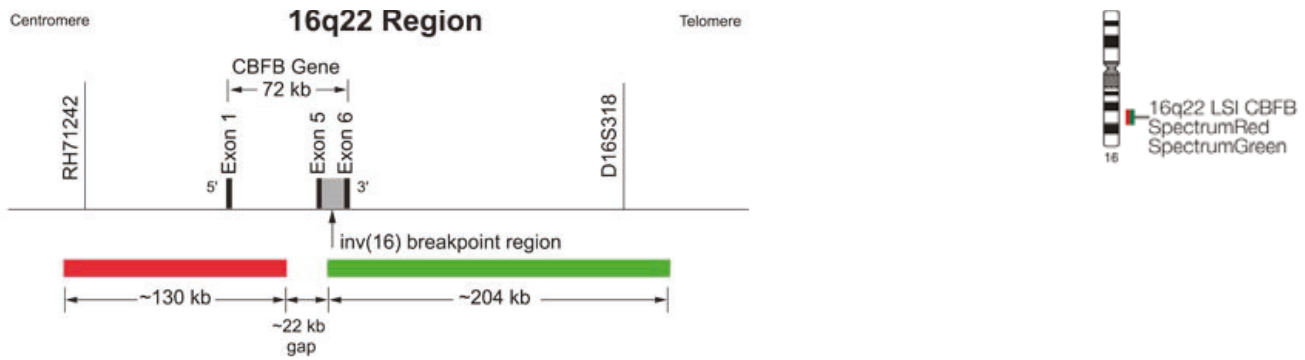
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 16

Vysis LSI CFBF Dual Color Break Apart Rearrangement Probe



**LSI CFBF Dual Color, Break Apart Rearrangement Probe**

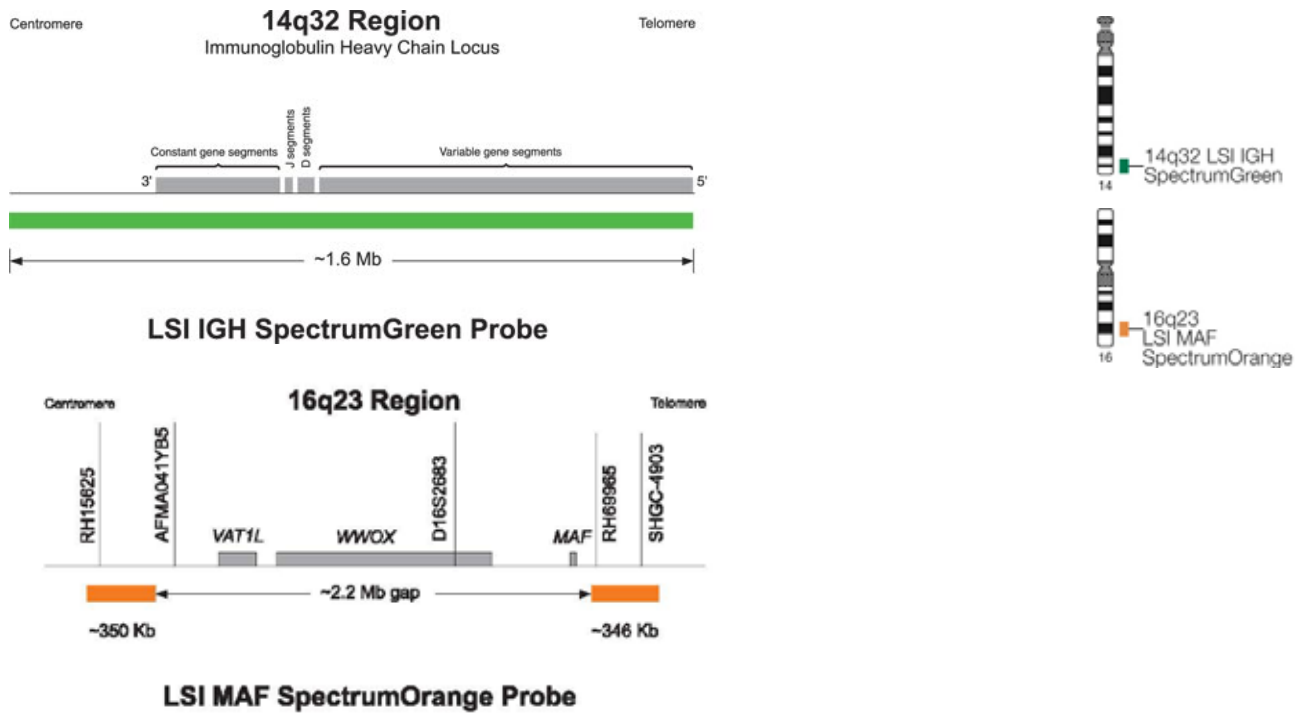
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI CFBF Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J65-001	00884999012240

**PRODUCT DESCRIPTION**

Vysis LSI CFBF Dual Color Break Apart Rearrangement Probe hybridizes to the band 16q22 (SpectrumRed on the centromeric side and SpectrumGreen on the telomeric side of the CFBF gene breakpoint). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 16

Vysis LSI IGH/MAF Dual Color, Dual Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MAF Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-004	00884999012691

PRODUCT DESCRIPTION

Vysis LSI IGH/MAF Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 16q23 (MAF SpectrumOrange). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 16

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

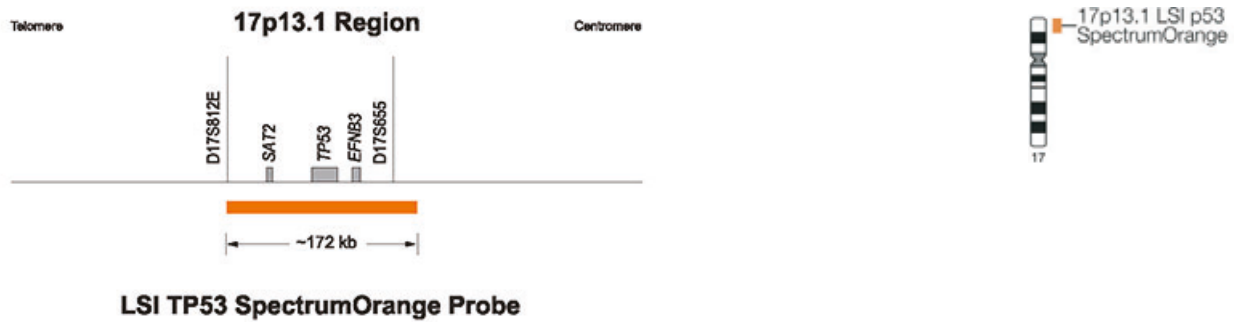
Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989



Chromosome 17

Vysis LSI TP53 (17p13.1) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (ASR)	20 µL	05J52-011	00884999012035

**PRODUCT DESCRIPTION**

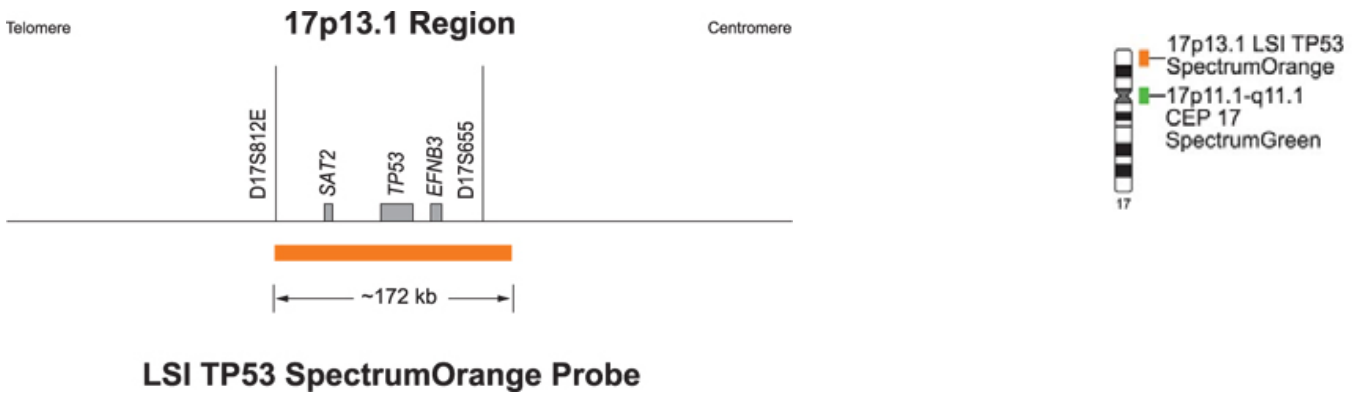
Vysis LSI TP53 (17p13.1) SpectrumOrange DNA probe hybridizes to the band 17p13.1 of human chromosome 17. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. Occasionally, the TP53 probe may appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids.

The signals may also appear diffuse or split. In a normal metaphase, LSI TP53 may appear as one or two signals on each chromosome 17.

Chromosome 17

Vysis LSI TP53 SpectrumOrange / CEP 17 SpectrumGreen Probes



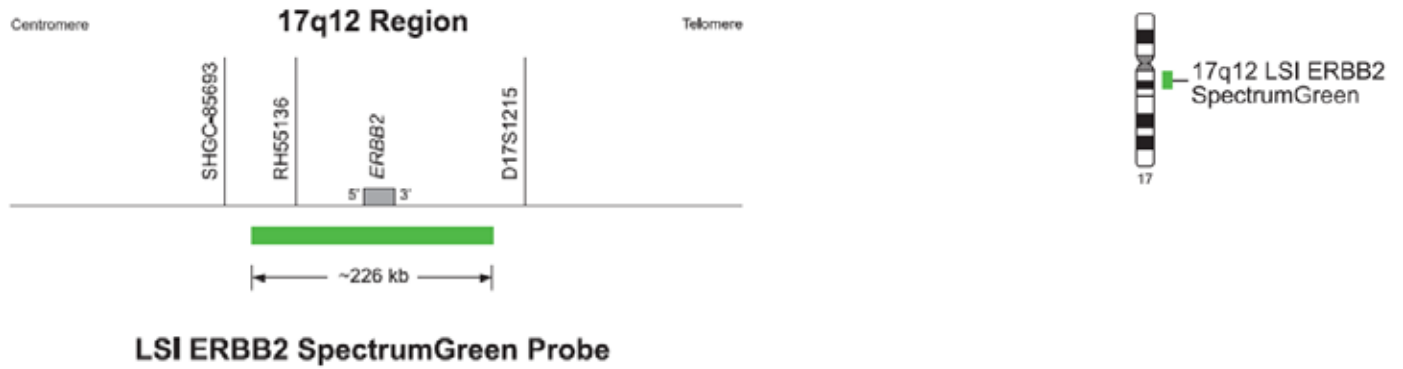
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TP53 SpectrumOrange/CEP 17 SpectrumGreen Probes (ASR)	20 µL	01N17-020	00884999002746

PRODUCT DESCRIPTION

Vysis LSI TP53 SpectrumOrange/CEP 17 SpectrumGreen Probes hybridize to chromosome 17. The SpectrumOrange TP53 probe hybridizes to 17p13.1. The probe is 170 kb in size and covers the entire TP53 gene. The CEP 17 is labeled in SpectrumGreen and hybridizes to the 17p11.1-q11.1 region of chromosome 17.

Chromosome 17

Vysis LSI ERBB2 (17q12) SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ERBB2 (17q12) SpectrumGreen Probe (ASR)	20 µL	02N20-020	00884999002715

PRODUCT DESCRIPTION

LSI ERBB2 SpectrumGreen DNA probe hybridizes to the 17q12 human chromosome region. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids. The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 17.

Chromosome 17

Vysis LSI MAPT 17q21 SpectrumGreen Probe



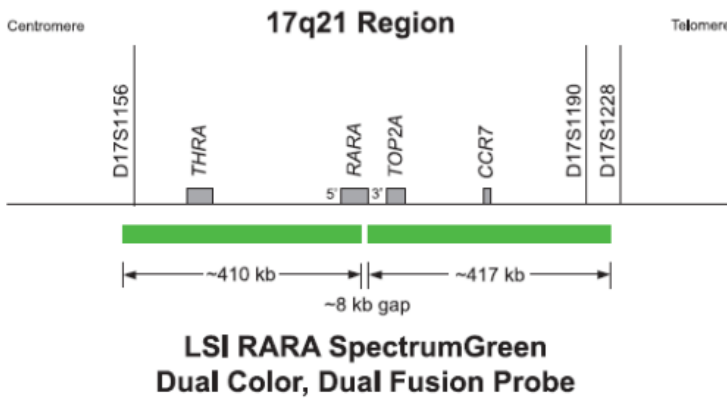
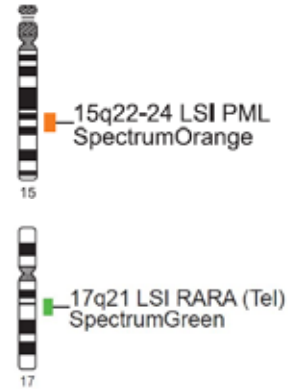
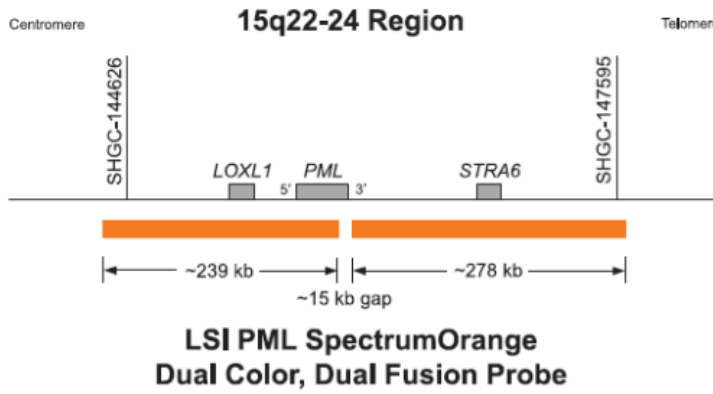
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MAPT 17q21 SpectrumGreen Probe (ASR)	10 µL	02N19-010	00884999002708

PRODUCT DESCRIPTION

The SpectrumGreen MAPT 17q21 fluorescence in situ hybridization (FISH) probe is targeted to the MAPT region on chromosome 17q21.3. The probe is ~329 kb in size and spans the MAPT gene. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids. The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 17.

Chromosome 17

Vysis LSI PML/RARA Dual Color, Dual Fusion Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PML/RARA Dual Color, Dual Fusion Probe (ASR)	20 µL	05J70-001	00884999012325

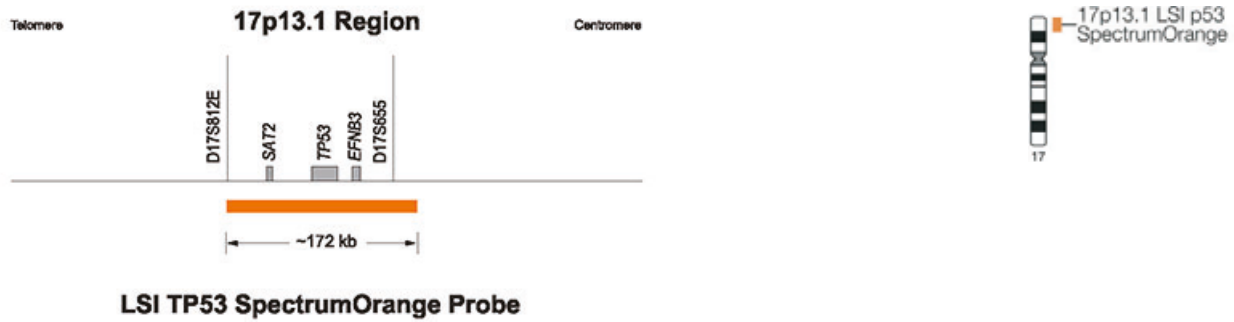
PRODUCT DESCRIPTION

Vysis LSI PML/RARA Dual Color Dual Fusion Probes hybridizes to chromosome 15q22-24 (PML SpectrumOrange) and chromosome 17q21 (Retinoic Acid Receptor α SpectrumGreen).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 17

Vysis LSI TP53 (17p13.1) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (ASR)	20 µL	05J52-011	00884999012035

PRODUCT DESCRIPTION

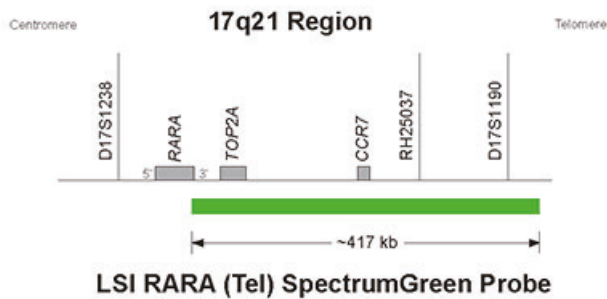
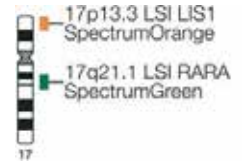
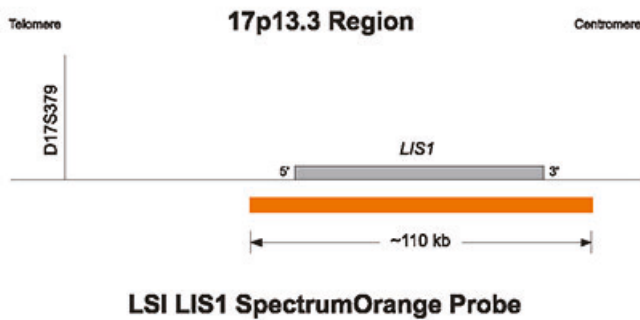
Vysis LSI TP53 (17p13.1) SpectrumOrange DNA probe hybridizes to the band 17p13.1 of human chromosome 17. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. Occasionally, the TP53 probe may appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids.

The signals may also appear diffuse or split. In a normal metaphase, LSI TP53 may appear as one or two signals on each chromosome 17.

Chromosome 17

Vysis Miller-Dieker Region / Isolated Lissencephaly LSI LIS1 SpectrumOrange / RARA SpectrumGreen Probes



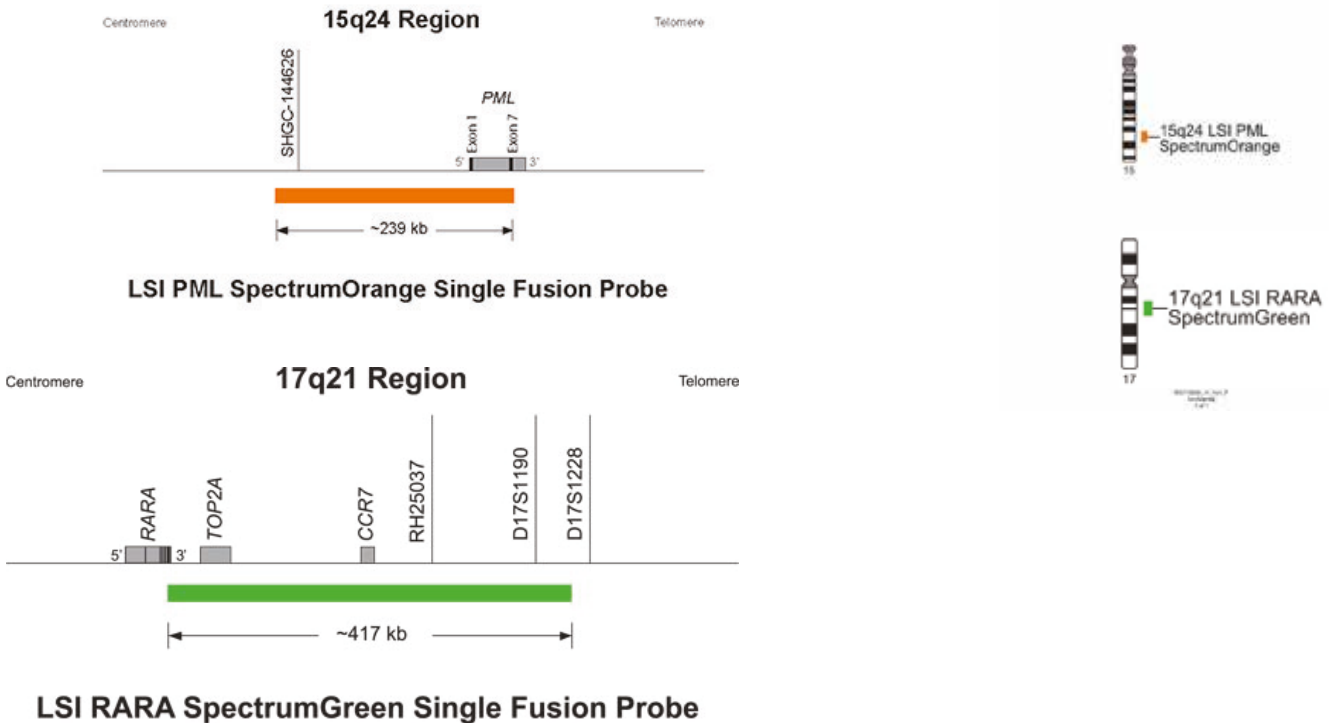
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Miller-Dieker Region/Isolated Lissencephaly LSI LIS1 SpectrumOrange/RARA SpectrumGreen Probes (ASR)	20 µL	05J88-001	00884999012790

**PRODUCT DESCRIPTION**

Vysis Miller-Dieker Region/Isolated Lissencephaly LSI LIS1 SpectrumOrange/RARA SpectrumGreen Probes hybridize to band 17p13.3 (SpectrumOrange LSI LIS1) and to band 17q21.1 (SpectrumGreen LSI RARA) of human chromosome 17. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 17

Vysis LSI PML/RARA Dual Color Single Fusion Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257

PRODUCT DESCRIPTION

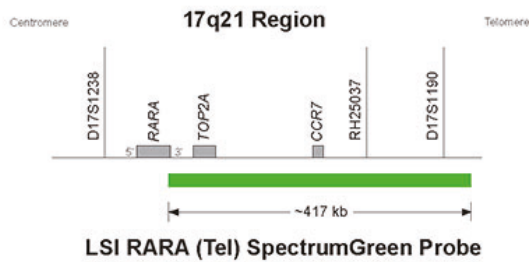
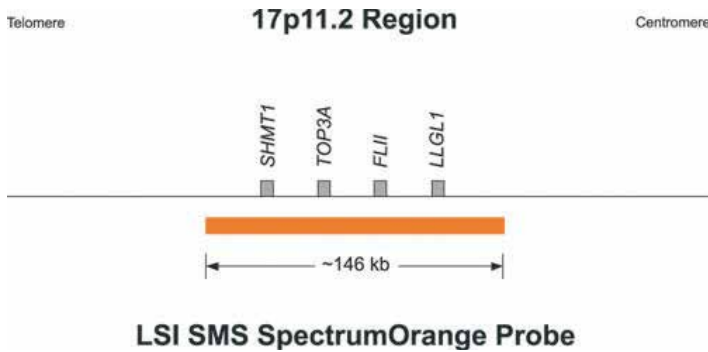
Vysis LSI PML/RARA Dual Color Single Fusion Probes hybridize to chromosome 15q22-24 (PML SpectrumOrange) and chromosome 17q21 (Retinoic Acid Receptor A SpectrumGreen).

This probe is useful for the detection of the translocation t(15;17)(q22;q21). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 17

Vysis Smith-Magenis Region LSI SMS SpectrumOrange / RARA SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Smith-Magenis Region LSI SMS SpectrumOrange / RARA SpectrumGreen Probes (ASR)	20 µL	05J25-003	00884999011427

PRODUCT DESCRIPTION

Vysis Smith-Magenis Region LSI SMS SpectrumOrange/RARA SpectrumGreen Probes hybridize to band 17p11.2 (LSI SMS SpectrumOrange) and band 17q21 (LSI RARA SpectrumGreen). The LSI SMS probe contains sequence-tagged sites (STSs) for the gene FLII, TOP 3 and SHMT1.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 17

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 18

Vysis LSI IGH/BCL2 Dual Color Fusion Probes



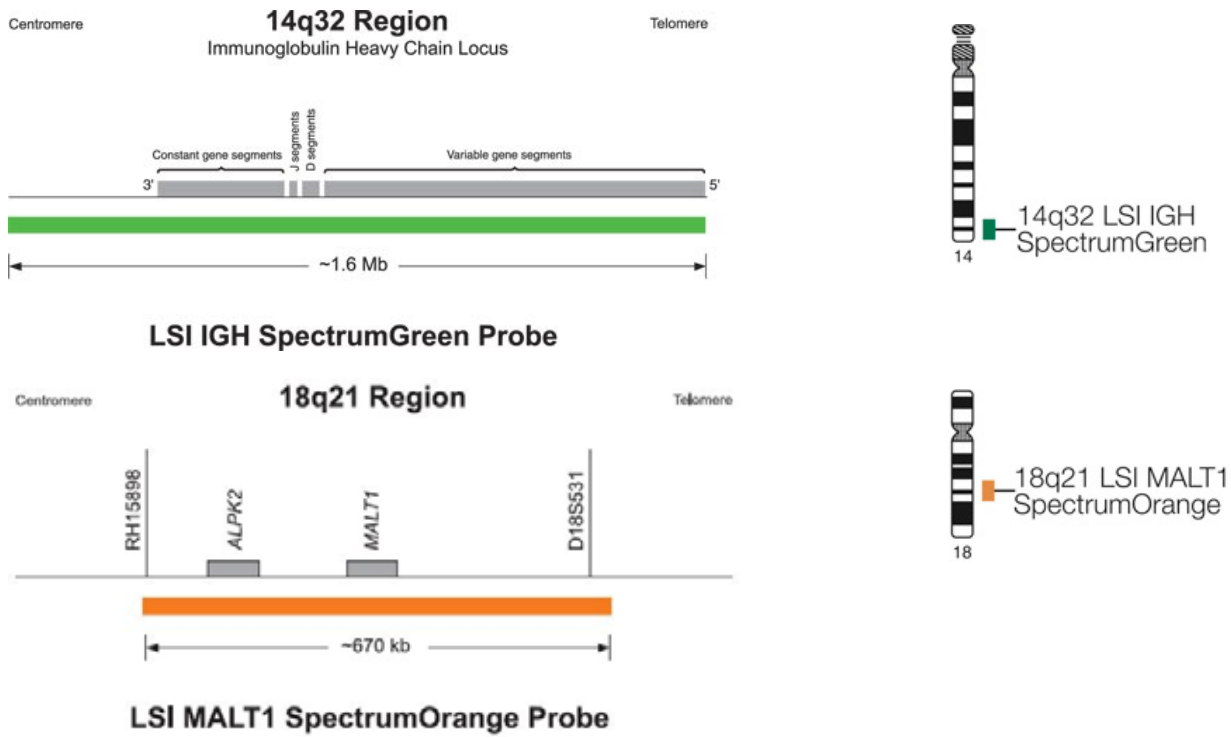
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes (ASR)	20 µL	05J71-001	00884999012356

PRODUCT DESCRIPTION

Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 18q21 (BCL2 SpectrumOrange). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 18

Vysis LSI IGH/MALT1 Dual Color, Dual Fusion Probes



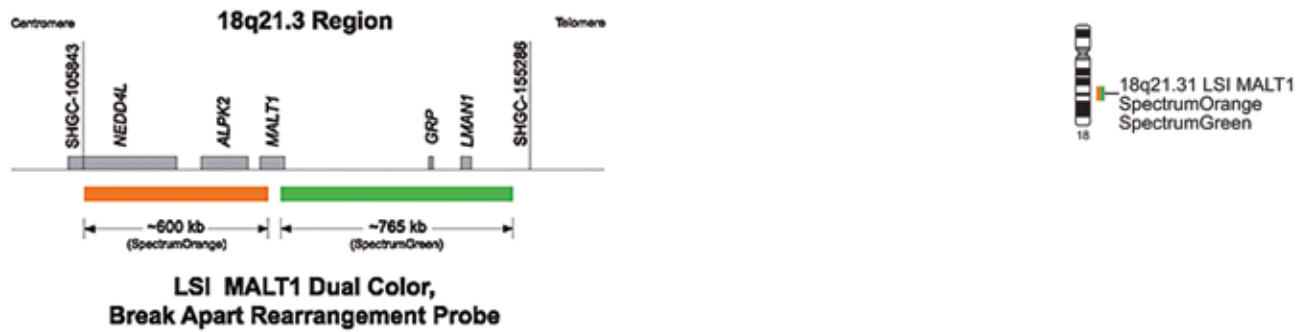
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-001	00884999012660

PRODUCT DESCRIPTION

Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes hybridize to chromosome 14q32 (IGH SpectrumGreen) and chromosome 18q21 (MALT1 SpectrumOrange). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 18

Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J87-001	00884999012783

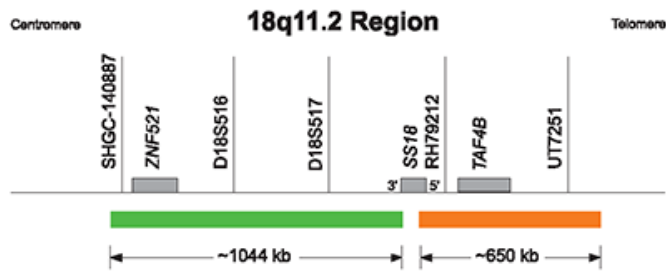
PRODUCT DESCRIPTION

Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe hybridizes to the band 18q21 (SpectrumGreen on the 3' (telomeric) side and SpectrumOrange on the 5' (centromeric) side of the MALT1 locus breakpoints).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 18

Vysis LSI SS18 (18q11.2) Dual Color Break Apart Rearrangement Probe



**LSI SS18 Dual Color, Break Apart Rearrangement Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SS18 (18q11.2) Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J84-006	00884999012714

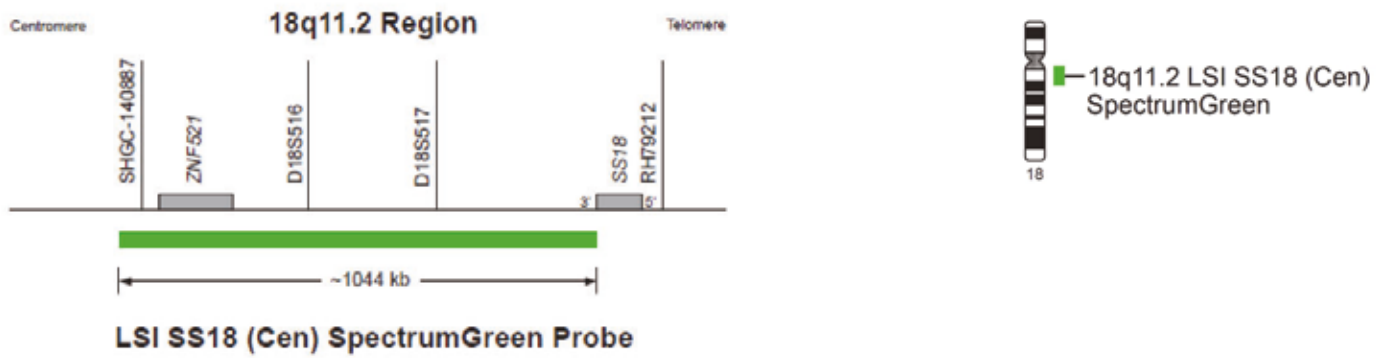
PRODUCT DESCRIPTION

Vysis LSI SS18 (18q11.2) Dual Color Break Apart Rearrangement Probe hybridizes to the band 18q11.2 (SpectrumGreen on the 3' (centromeric) side and SpectrumOrange on the 5' (telomeric) side of the SS18 gene breakpoints).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 18

Vysis LSI SS18 (Cen) SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SS18 (Cen) SpectrumGreen Probe (ASR)	20 µL	05J84-010	00884999043251

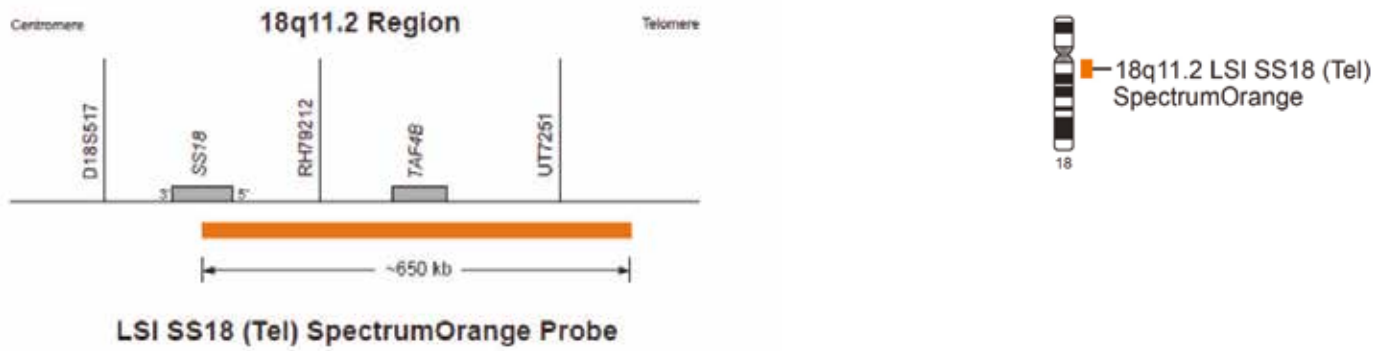
PRODUCT DESCRIPTION

The Vysis LSI SS18 (Cen) SpectrumGreen fluorescence in situ hybridization (FISH) probe is targeted to the 18q11.2 region on chromosome 18. The probe is approximately 1044 kb in size and positioned centromeric to the SS18 gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and metaphase chromosomes.

Chromosome 18

Vysis LSI SS18 (Tel) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SS18 (Tel) SpectrumOrange Probe (ASR)	20 µL	05J84-009	00884999043244

PRODUCT DESCRIPTION

The Vysis LSI SS18 (Tel) SpectrumOrange fluorescence in situ hybridization (FISH) probe is targeted to the 18q11.2 region on chromosome 18. The probe is approximately 650 kb in size and positioned telomeric to the SS18 gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and metaphase chromosomes.



Chromosome 18

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

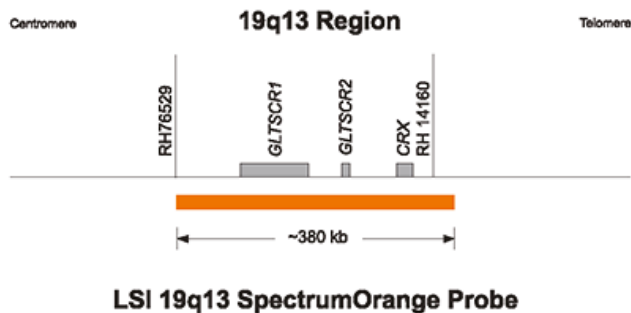
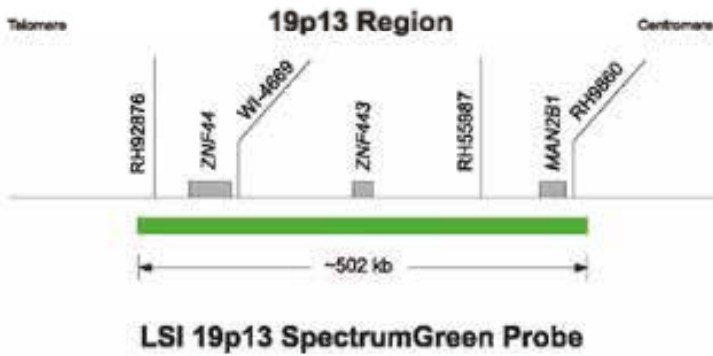
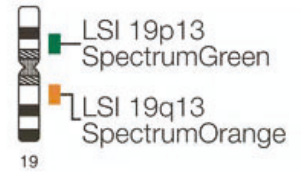
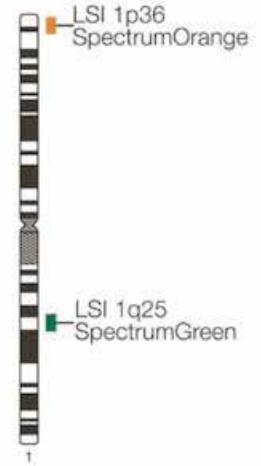
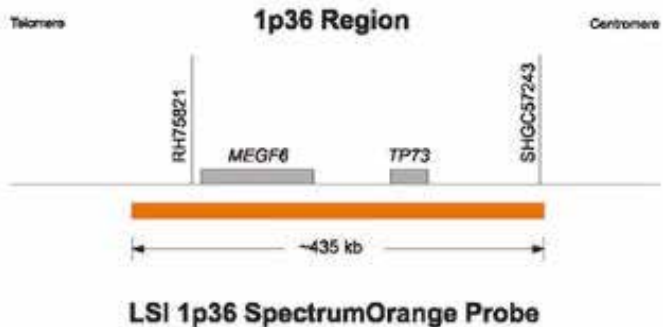
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 19

Vysis LSI 1p36 SpectrumOrange / 1q25 SpectrumGreen Probes and  
Vysis LSI 19q13 SpectrumOrange / 19p13 SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes ( <b>ASR</b> )	200 µL	07J73-001	00884999029187

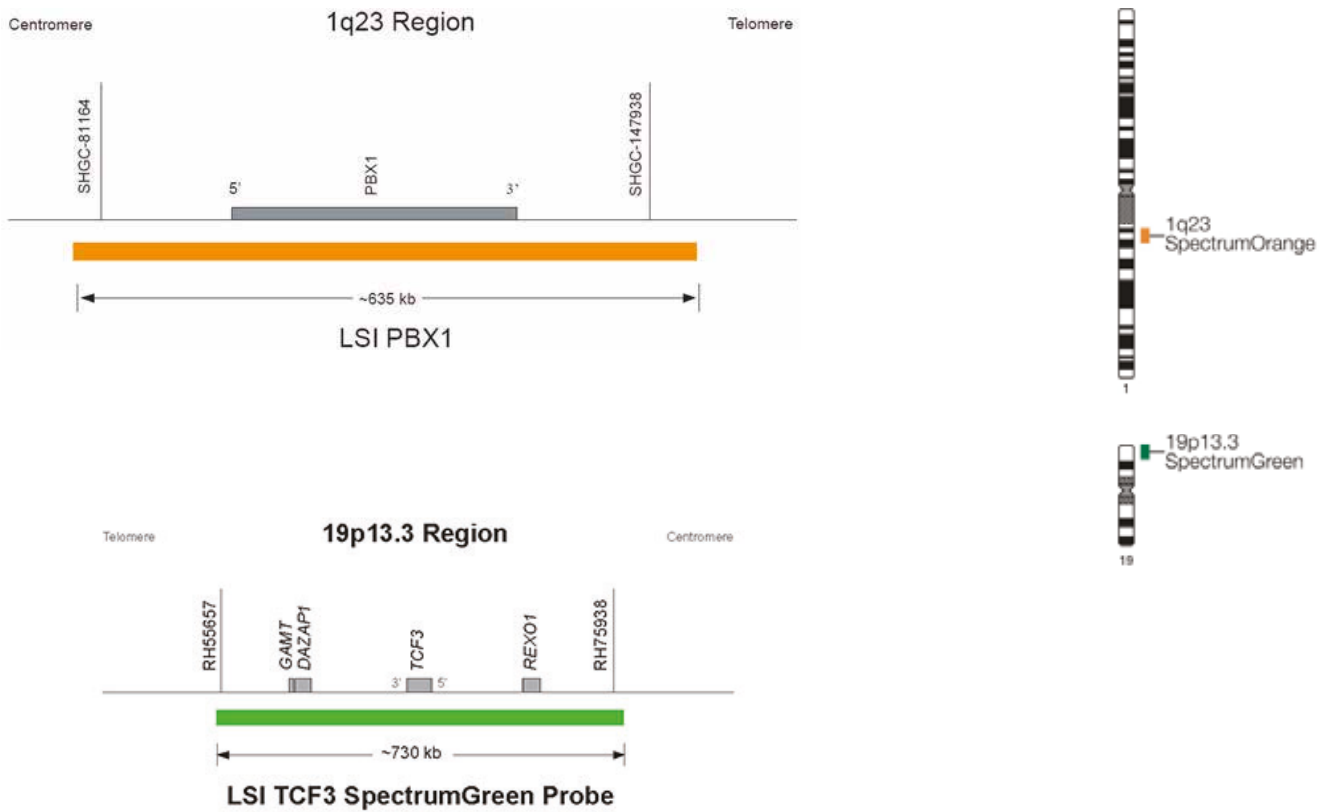
### PRODUCT DESCRIPTION

Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes consist of two separate probe mixtures: one probe set/vial contains LSI 1p36 SpectrumOrange and LSI 1q25 SpectrumGreen, and the other probe set/vial contains LSI 19q13 SpectrumOrange and LSI 19p13 SpectrumGreen.

The hybridized probes fluoresce with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 19

Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	01N24-020	00884999000605

PRODUCT DESCRIPTION

Vysis LSI TCF3/ PBX1 Dual Color, Dual Fusion Translocation Probe hybridizes to chromosome 19p13.3 (TCF3 - Spectrum Green) and chromosome 1q23 (PBX1 - Spectrum Orange). The PBX1 probe is 635 kb in size and covers the entire PBX1 gene on chromosome 1q23. The TCF3 probe is 730 kb in size and the green probe extends beyond the TCF3 gene to cover a larger region on chromosome 19p13.3.

The signals may also appear diffuse or split depending upon the condensation of the DNA and the relative distances between chromatids. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as two distinct orange signals and two distinct green signals.

Chromosome 19

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

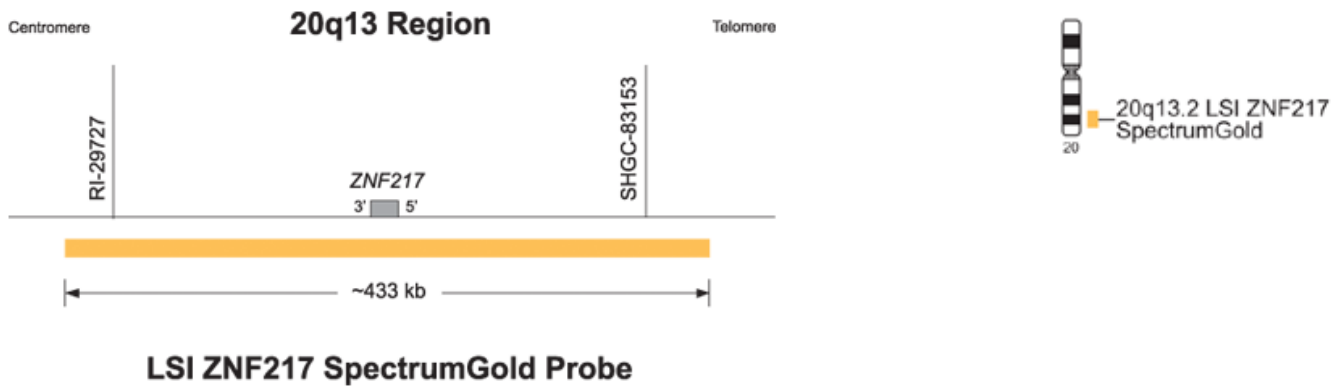
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 20

Vysis LSI ZNF217 SpectrumGold Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ZNF217 SpectrumGold Probe (ASR)	20 µL	02N23-020	00884999002746

**PRODUCT DESCRIPTION**

The Vysis LSI ZNF217 SpectrumGold Probe, 20 µL hybridizes to human chromosome 20q13.2. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. The probe may also appear as three or four signals, depending upon DNA condensation, and relative distance between chromatids.

The signals may also appear as diffuse or split signals. In a normal metaphase, the probe appears as one signal on each chromosome 20.

Chromosome 20

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 21

Vysis LSI 21 SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 21 SpectrumOrange Probe (ASR)	20 µL	05J13-012	00884999011175

**PRODUCT DESCRIPTION**

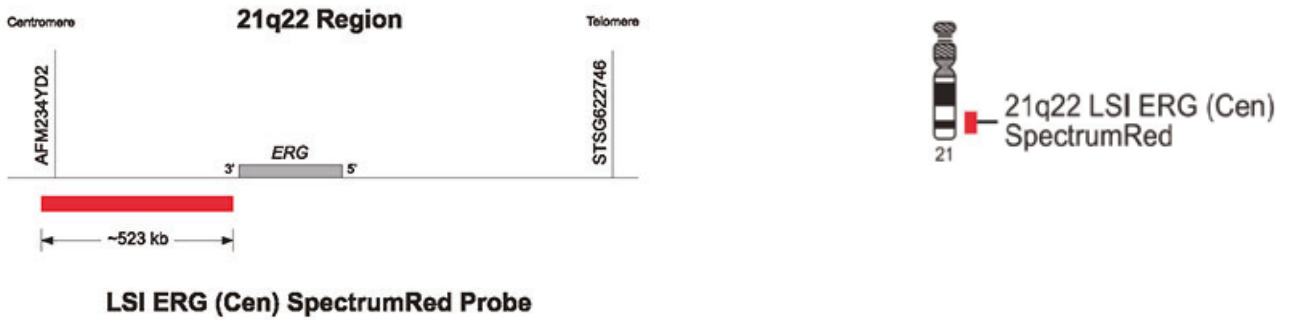
Vysis LSI 21 SpectrumOrange DNA probe hybridizes to the band region 21q22.13 - q22.2 (loci D21S259, D21S341 and D21S342) of human chromosome 21. The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal cells, the probe generally appears as two distinct signals. It may also appear as three or four signals depending upon the condensation of the DNA and the relative distances between chromatids. The signals may also appear diffuse or split. In a normal metaphase, the probe may appear as one or two signals on each chromosome 21.



Chromosome 21

Vysis LSI ERG (Cen) SpectrumRed Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ERG (Cen) SpectrumRed Probe <b>(ASR)</b>	20 µl	07N69-020	00884999036475

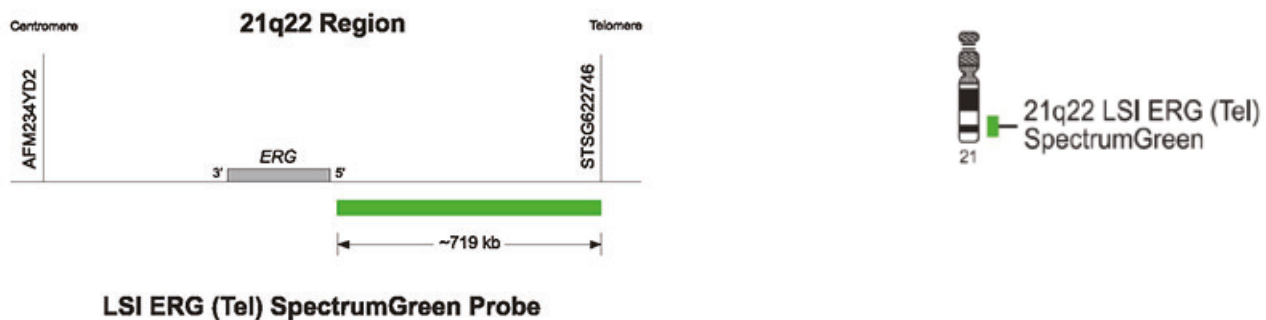
PRODUCT DESCRIPTION

The SpectrumRed Vysis LSI ERG (Cen) fluorescence in situ hybridization (FISH) probe is targeted to the 21q22.13-22.2 region on chromosome 21. The probe is approximately 523 kb in size and positioned centromeric of the ERG gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 21

Vysis LSI ERG (Tel) SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ERG (Tel) SpectrumGreen Probe (ASR)	20 µl	07N70-020	00884999036468

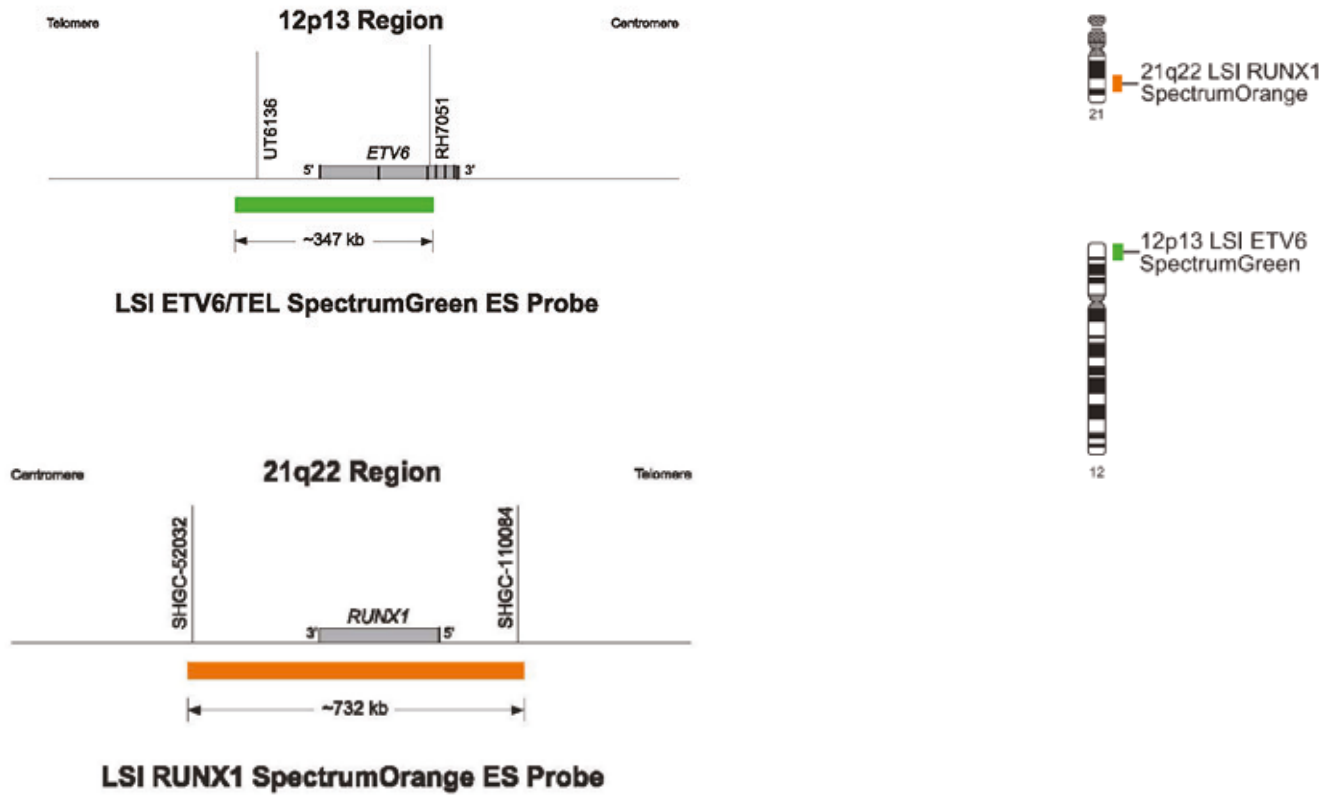
**PRODUCT DESCRIPTION**

The SpectrumGreen Vysis LSI ERG (Tel) fluorescence in situ hybridization (FISH) probe is targeted to the 21q22.2 region on chromosome 21. The probe is approximately 719 kb in size and positioned telomeric of the ERG gene.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 21

Vysis LSI ETV6 (Tel) / RUNX1 (AML1) ES Dual Color, Single Fusion Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Single Fusion Probe ( <b>ASR</b> )	20 µL	05J62-001	00884999012202

PRODUCT DESCRIPTION

Vysis LSI ETV6 (TEL) / RUNX1 (AML1) ES Dual Color Single Fusion Probe hybridizes to chromosome 12p13 (SpectrumGreen TEL - ETV6) and to chromosome 21q22 (SpectrumOrange AML1).

The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 21

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

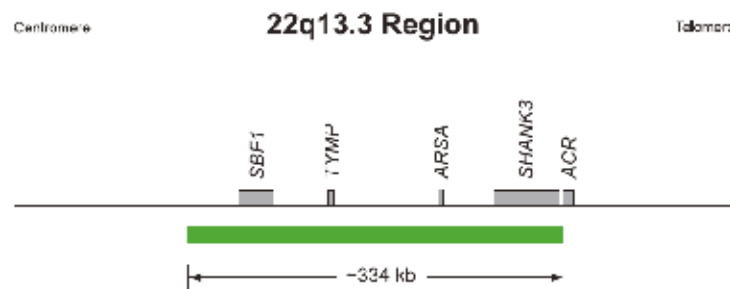
<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome 22

Vysis DiGeorge Region LSI N25 SpectrumOrange/ARSA Spectrum Green Probes



**LSI D22S75 (N25 Region)  
SpectrumOrange Probe**



**LSI ARSA SpectrumGreen Probe**

PRODUCT	QUANTITY	ORDER #	GTIN
Vysis DiGeorge Region LSI N25 SpectrumOrange/ARSA SpectrumGreen Probes (ASR)	10 µL	05N24-010	00884999014770

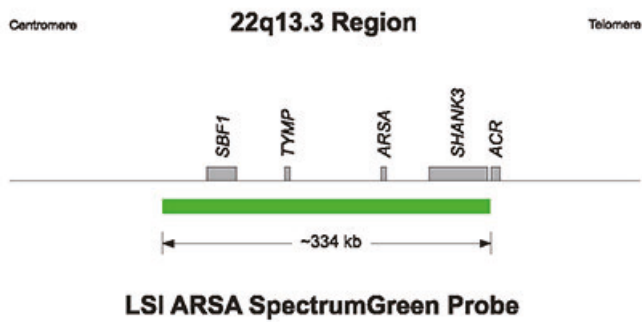
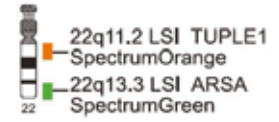
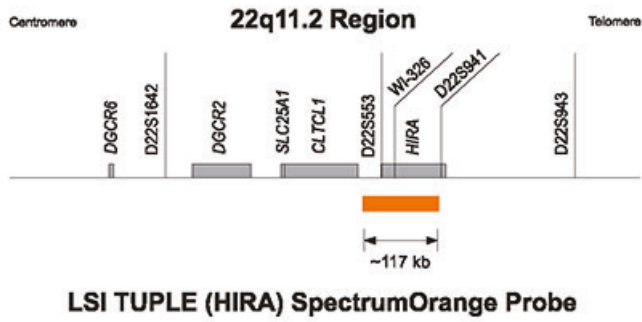
**PRODUCT DESCRIPTION**

The approximately 126 kb SpectrumOrange Vysis LSI D22S75 (N25) probe is located at chromosome 22q11.2. (chr22:17455981-17581829; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>). The approximately 334 kb SpectrumGreen Vysis LSI ARSA probe is located at chromosome 22q13.3 (chr22: 49187176-49520735; March 2006 UCSC Human Genome Browser <http://genome.ucsc.edu/>).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 22

Vysis DiGeorge Region LSI TUPLE 1 SpectrumOrange / LSI ARSA SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis DiGeorge Region LSI TUPLE 1 SpectrumOrange/LSI ARSA SpectrumGreen Probes (ASR)	20 µL	05J21-028	00884999011342

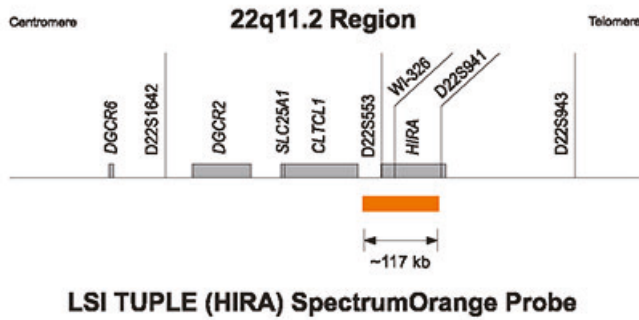
**PRODUCT DESCRIPTION**

Vysis DiGeorge Region LSI TUPLE 1 SpectrumOrange/ LSI ARSA SpectrumGreen Probes hybridize to the band 22q11.2, loci D22S553, D22S609, and D22S942 (LSI DiGeorge/VCFS, TUPLE 1 - HIRA locus SpectrumOrange) and to the band 22q13 (LSI ARSA, arylsulfatase A locus SpectrumGreen) on human chromosome 22.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 22

Vysis LSI TUPLE1 SpectrumOrange / TelVysion 22q SpectrumGreen Probes



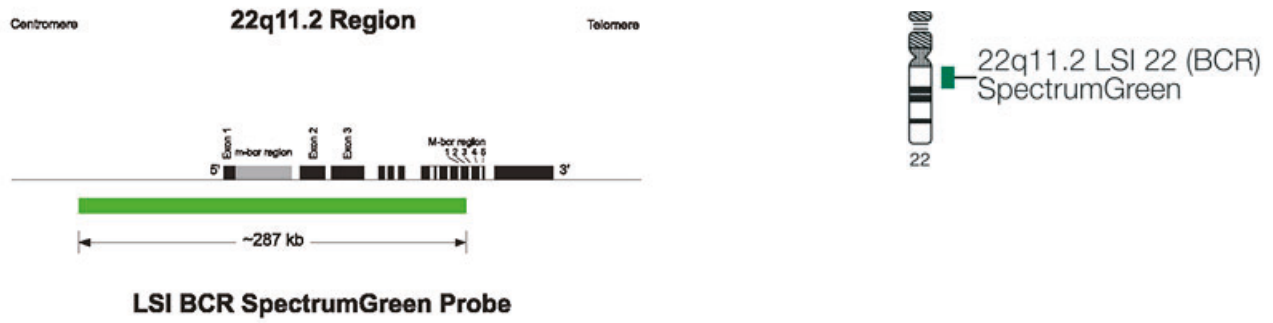
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI TUPLE1 SpectrumOrange/TelVysion 22q SpectrumGreen Probes (ASR)	10µl	01N14-010	00884999000490

PRODUCT DESCRIPTION

Vysis LSI TUPLE1 SpectrumOrange/TelVysion 22q SpectrumGreen Probes is 117 kb in size and hybridizes with a SpectrumOrange signal to the 22q11.2 region of chromosome 22. The Vysis TelVysion 22q is 96 kb in size and hybridizes with a SpectrumGreen signal to the telomeric region of chromosome 22.

Chromosome 22

Vysis LSI 22 (BCR) SpectrumGreen Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI 22 (BCR) SpectrumGreen Probe (ASR)	20 µL	05J17-024	00884999011236

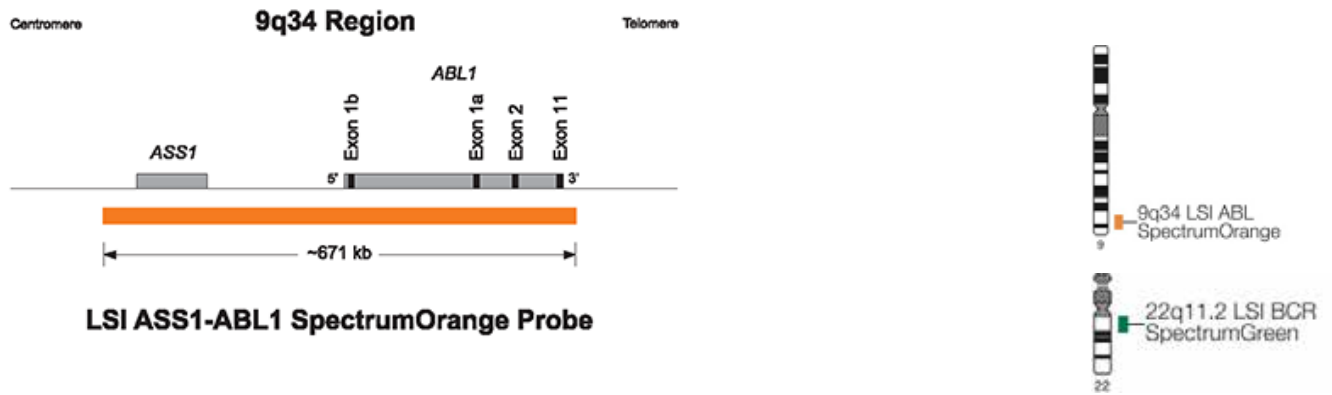
PRODUCT DESCRIPTION

Vysis LSI 22 (BCR) SpectrumGreen Probe hybridizes to human chromosome 22q11.2 (breakpoint cluster region locus). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome 22

Vysis LSI BCR/ABL Dual Color, Dual Fusion Probe Kit



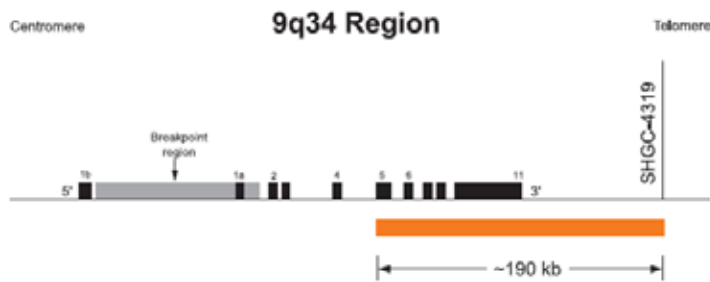
PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR/ABL Dual Color, Dual Fusion Probe (ASR)	20 µL	05J82-001	00884999012592
Vysis LSI BCR/ABL Dual Color, Dual Fusion Probe (ASR)	50 µL	05J82-010	00884999012615

PRODUCT DESCRIPTION

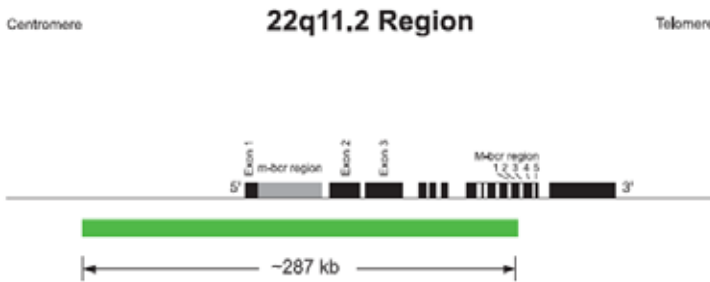
Vysis LSI BCR/ABL Dual Color Dual Fusion Probes hybridize to chromosome 22q11.2 (breakpoint cluster region SpectrumGreen) and to chromosome 9q34 (abl oncogene SpectrumOrange). The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 22

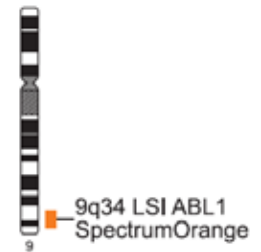
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe



**LSI ABL1 SpectrumOrange Probe**



**LSI BCR SpectrumGreen Probe**



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe ( <b>ASR</b> )	20 µL	05J77-001	00884999012462

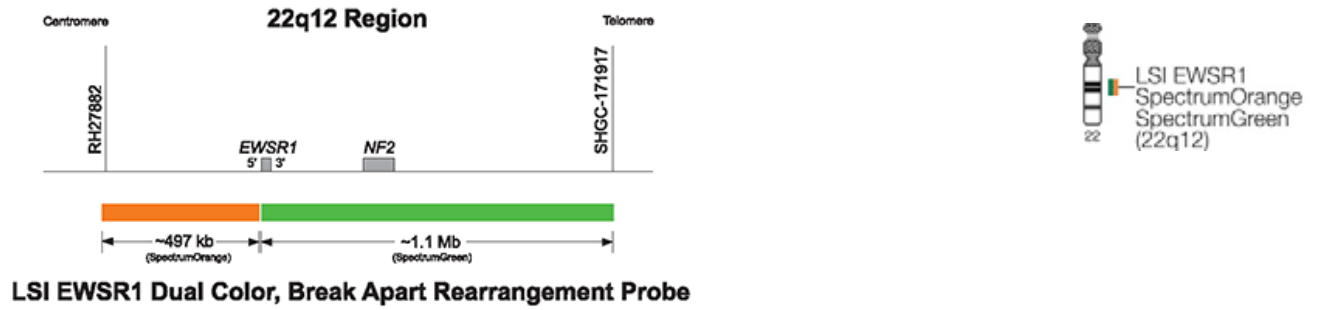
**PRODUCT DESCRIPTION**

Vysis LSI BCR/ABL Dual Color Single Fusion Probes hybridize to chromosome 9q34 (abl oncogene -SpectrumOrange) and chromosome 22q11.2 (breakpoint cluster region - SpectrumGreen).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome 22

Vysis LSI EWSR1 (22q12) Dual Color, Break Apart Rearrangement Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI EWSR1 (22q12) Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	07J71-001	00884999029125

PRODUCT DESCRIPTION

Vysis LSI EWSR1 (22q12) Dual Color, Break Apart Rearrangement Probe hybridizes to the band 22q12 (SpectrumGreen on the 3' (telomeric) side and SpectrumOrange on the 5' (centromeric) side of the EWSR1 gene breakpoints).

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

## Chromosome 22

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

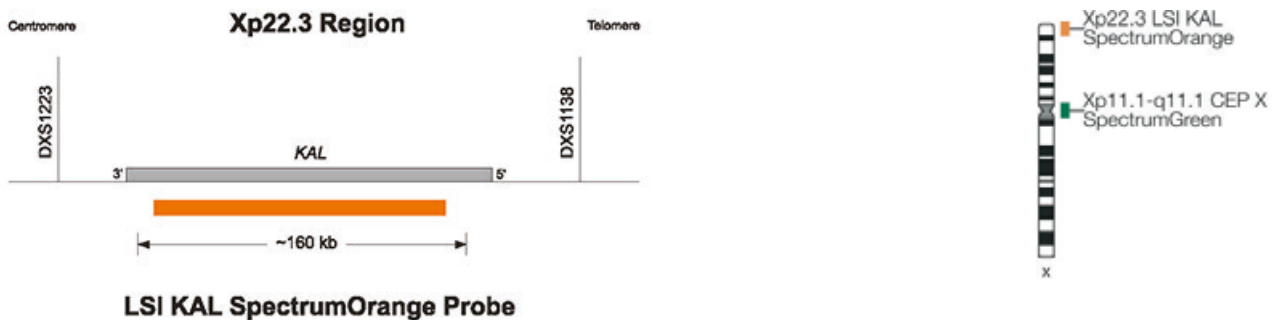
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome X

Vysis Kallmann Region LSI KAL SpectrumOrange / CEP X SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Kallmann Region LSI KAL SpectrumOrange/CEP X SpectrumGreen Probes (ASR)	20 µL	05J23-070	00884999011380

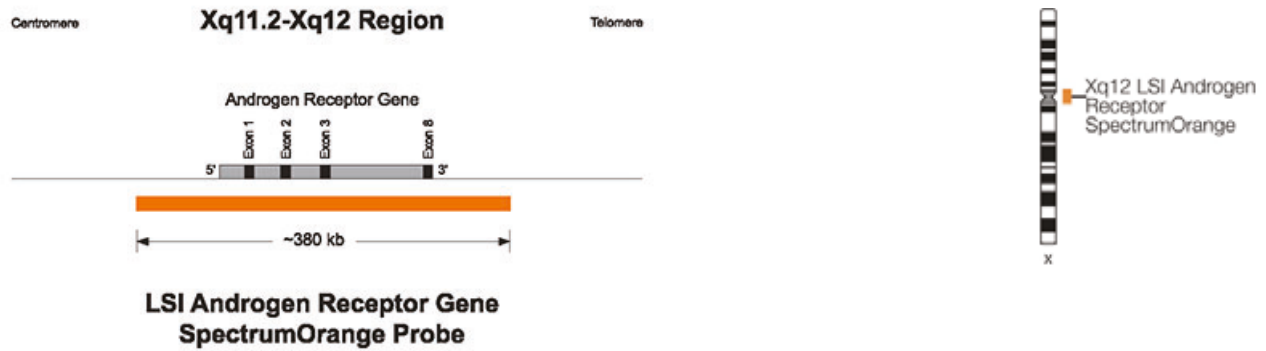
PRODUCT DESCRIPTION

Vysis Kallmann Region LSI KAL SpectrumOrange/CEP X SpectrumGreen Probes hybridize to the band Xp22.3 (LSI Kallmann SpectrumOrange) and to the centromere, band region Xp11.1-q11.1, locus DXZ1 (CEP X SpectrumGreen) of the human X chromosome.

The hybridized probes fluoresce with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome X

Vysis LSI Androgen Receptor Gene (Xq12) SpectrumOrange Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI Androgen Receptor Gene (Xq12) SpectrumOrange Probe <b>(ASR)</b>	20 µL	05J44-011	00884999011793

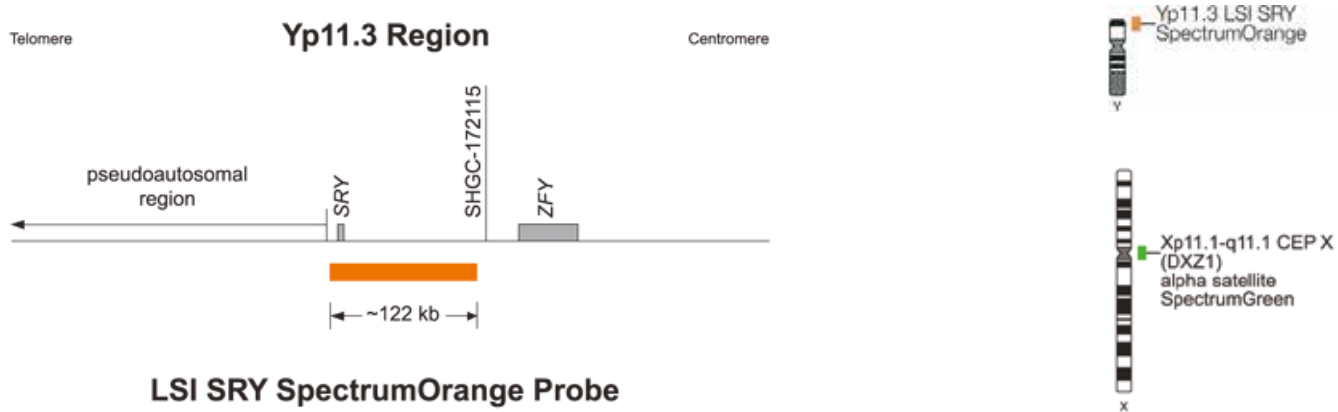
PRODUCT DESCRIPTION

Vysis LSI Androgen Receptor Gene (Xq12) SpectrumOrange DNA probe hybridizes to the band Xq12 of the human X chromosome. The hybridized probe fluoresces with bright intensity both in interphase nuclei and on metaphase chromosomes. In interphase nuclei of normal cells, the probe generally appears as one distinct signal (male specimens).

It may also appear as two or three signals depending upon the condensation of the DNA and relative distances between chromatids. The signals may also appear diffuse or split. In a normal metaphase, the probe may appear as one or two signals on each X chromosome.

Chromosome X

Vysis LSI SRY Spectrum Orange / CEP X Spectrum Green Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes (ASR)	20 µL	05J27-007	00884999011472

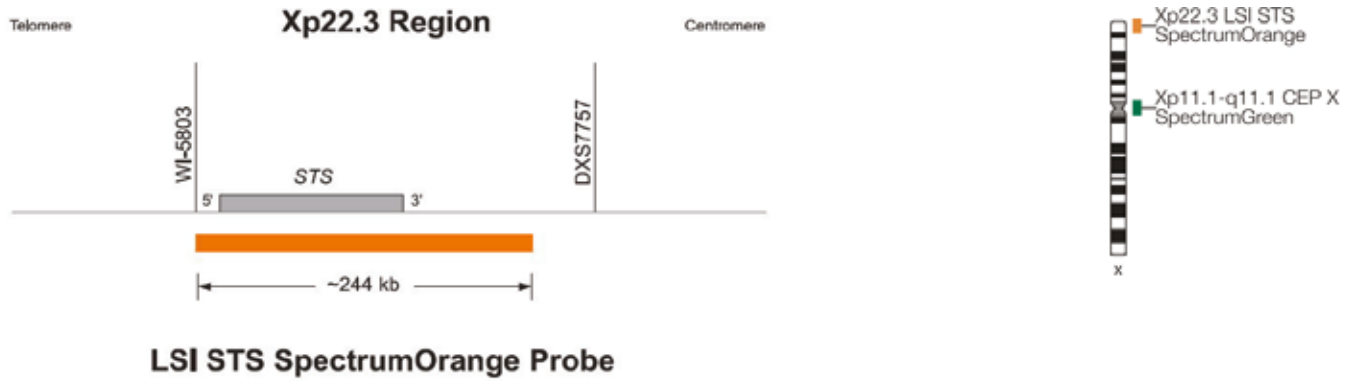
PRODUCT DESCRIPTION

Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes hybridize to band Yp11.3 of the human Y chromosome (LSI SRY SpectrumOrange) and to the centromere, band region Xp11.1-q11.1, locus DXZ1 (CEP X SpectrumGreen) of the human X chromosome.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome X

Vysis Steroid Sulfatase Deficiency LSI STS SpectrumOrange / CEP X SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis Steroid Sulfatase Deficiency LSI STS SpectrumOrange/CEP X SpectrumGreen Probes (ASR)	20 µL	05J28-004	00884999011519

PRODUCT DESCRIPTION

Vysis Steroid Sulfatase Deficiency LSI STS SpectrumOrange/CEP X SpectrumGreen Probes hybridize to the band Xp22.3 (LSI STS SpectrumOrange) and to the centromere, band region Xp11.1-q11.1, locus DXZ1 (CEP X SpectrumGreen) of the human X chromosome.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.



Chromosome X

## Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 $\mu$ L	05J05-001	00884999010703

## PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

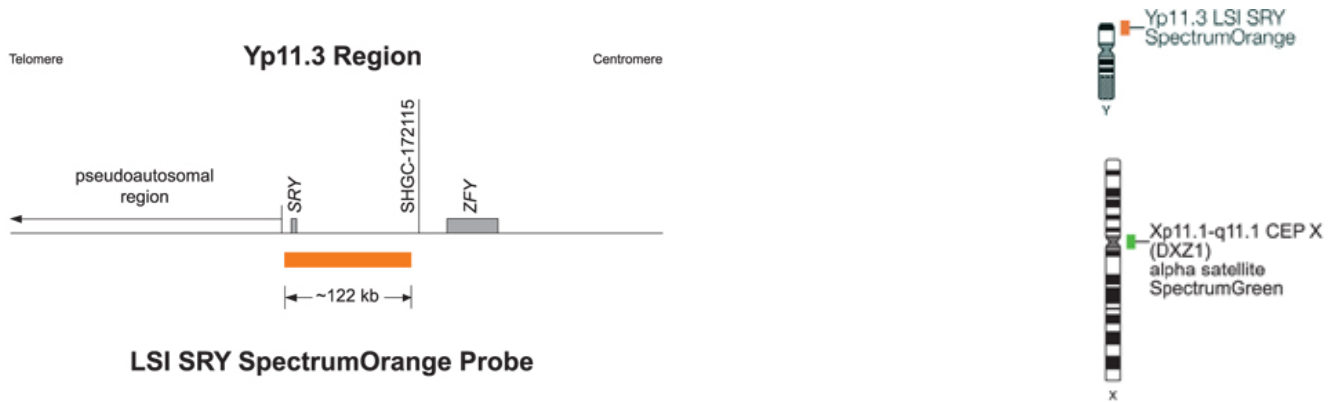
The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989

Chromosome Y

Vysis LSI SRY SpectrumOrange / CEP X SpectrumGreen Probes



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes (ASR)	20 µL	05J27-007	00884999011472

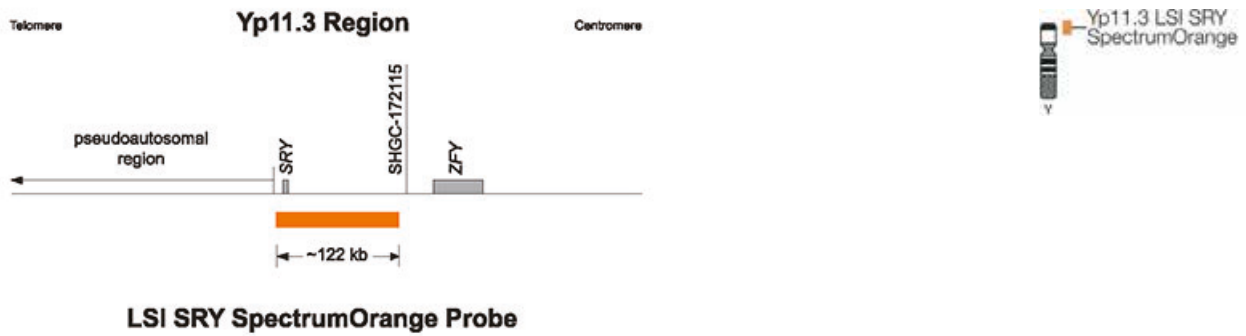
PRODUCT DESCRIPTION

Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes hybridize to band Yp11.3 of the human Y chromosome (LSI SRY SpectrumOrange) and to the centromere, band region Xp11.1-q11.1, locus DXZ1 (CEP X SpectrumGreen) of the human X chromosome.

The hybridized probe fluoresces with moderate to bright intensity both in interphase nuclei and on metaphase chromosomes.

Chromosome Y

Vysis SRY Probe LSI SRY SpectrumOrange



PRODUCT	QUANTITY	ORDER #	GTIN
LSI SRY SpectrumOrange Probe (ASR)	20 µL	05J27-089	00884999011496

PRODUCT DESCRIPTION

Vysis LSI SRY SpectrumOrange DNA probe hybridizes to band Yp11.3 of human chromosome Y. The hybridized probe fluoresces with moderate intensity both in interphase nuclei and on metaphase chromosomes.

In interphase nuclei of normal male cells, the probe generally appears as one distinct signal. It may also appear as two signals depending upon the condensation of the DNA and the relative distances between chromatids. The signals may also appear diffuse or split.

Chromosome Y

Vysis ToTelVysion Multi-Color FISH Probe



PRODUCT	QUANTITY	ORDER #	GTIN
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703

PRODUCT DESCRIPTION

Vysis ToTelVysion Multi-Color FISH Probe Mixtures consist of 64 total DNA FISH probes. The mixtures include various combinations of TelVysion, CEP and LSI probes.

The TelVysion probes are generally specific to single human chromosome arms and contain loci estimated to be within 300 kb of the end of the respective chromosomes. Evidence for telomere localization is derived from half-YAC<sup>1</sup>, telomere-associated repeat (TAR; subtelomeric repeat) or sequence data.

Several of the ToTelVysion mixtures contain CEP or LSI probes for the purpose of identifying certain chromosomes within the individual mixtures. The hybridized probes fluoresce with moderate intensity on metaphase chromosomes. The probes generally appear as distinct signals, but may also appear diffuse or split.

<sup>1</sup>Cloning of human telomere containing fragments in yeast by complementation of the yeast telomere function is referred to as half-YAC cloning. Reithman, et al., Proc Natl Acad Sci USA 86:6240-6244, 1989



# VYSIS FISH: ACCESSORIES/ REAGENTS

Abbott is committed to support the diverse needs of your laboratory to amplify your impact. In addition to FISH automation, Abbott provides quality instrumentation and reagents that optimize laboratory effectiveness when processing FISH probes.



#### THE FOLLOWING SECTION HIGHLIGHTS FISH ACCESSORIES BY PRODUCT CATEGORY:

- FISH Pretreatment Reagent Kits include ready-to-use reagents used to prepare specimens for hybridization
- In Situ Hybridization Reagents offer an a la carte menu of reagents essential to FISH processing
- Fluorescence Labeling Reagents used in nick translation protocols to incorporate individual fluorophore-conjugated dUTPs into DNA
- FISH Assay Control Slides serve as controls and training tools to ensure high quality specimen processing and accurate enumeration
- VP 2000 Reagents are specifically designed for automated deparaffinization and pre-treatment protocols for Vysis FISH assays
- Filter Sets are custom-manufactured to meet the exact specifications of Abbott Molecular FISH products and your microscope

PRODUCT	QUANTITY	ORDER #	GTIN
<b>COMPARATIVE GENOMIC HYBRIDIZATION REAGENTS</b>			
CGH Metaphase Target Slides; 10 slides (GPR)	10 slides	06J96-001	00884999023512
CGH Nick Translation Kit with control DNA (MPE 600) (GPR)	50 reactions	06J40-020	00884999020207
Control DNA Unlabeled (GPR)	15 µL	06J40-001	00884999020177
Human COT-1 DNA (GPR)	250 µL	06J31-001	00884999019379
SpectrumGreen Control DNA (GPR)	25 µL	06J45-001	00884999021587
<b>CONTROL SLIDES</b>			
CGH Metaphase Target Slides; 10 slides (GPR)	10 slides	06J96-001	00884999023512
ProbeChek ALK Positive Control Slides (CE)	5 slides	06N38-010	00884999025738
ProbeChek Control Slides for CEP X/Y Assay; Control low-level female: 95% XY, 5% XX; 5 slides (CE)	5 slides	07J21-011	00884999027053
ProbeChek Control Slides for CEP X/Y Assay; Control low-level male: 95% XX, 5% XY; 5 slides (CE)	5 slides	07J21-012	00884999027060
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Negative Control 0%, trisomy 8/12 (CE)	5 slides	07J21-001	00884999027039
ProbeChek Control Slides for FISH using CEP 8 and CEP 12 Assay, Positive Control 10%, trisomy 8/12 (CE)	5 slides	07J21-002	00884999027046
ProbeChek MultiVysion Control Slides 5 slides (GPR)	5 slides	05J07-001	00884999010864
ProbeChek Prenatal Control Slides for Amniocyte; Male Amniocyte Control Slides; 5 slides (CE)	5 slides	05J39-005	00884999011731
ProbeChek Prenatal Control Slides for Positive Control; 5 slides (CE)	5 slides	05J36-005	00884999011663
<b>FISH PRETREATMENT KITS</b>			
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease (75 mg) Kit (CE)	5 vials	08N85-083	00884999046825
Vysis IntelliFISH Universal FFPE Tissue Pretreatment Protease (750 mg) Kit (CE)	1 bottle	08N85-084	00884999046832
Vysis IntelliFISH Universal FFPE Tissue Pretreatment and Wash Reagent Kit (CE)	1 kit	08N85-085	00884999046849
FISH Pretreatment Reagent Kit (GPR)	1 kit	02J03-032	00884999001817
Paraffin Pretreatment Reagent Kit I (GPR)	1 kit	02J02-032	00884999001800
VP 2000 Pretreatment Kit* (CE)	1 kit	08N16-001	00884999038189
Vysis Paraffin Pretreatment IV & Post-Hybridization Wash Buffer Kit (CE)	1 kit	01N31-005	00884999000735
20X SSC (GPR)	500 g	02J10-032	00884999001909

\*lung cancer specimens only



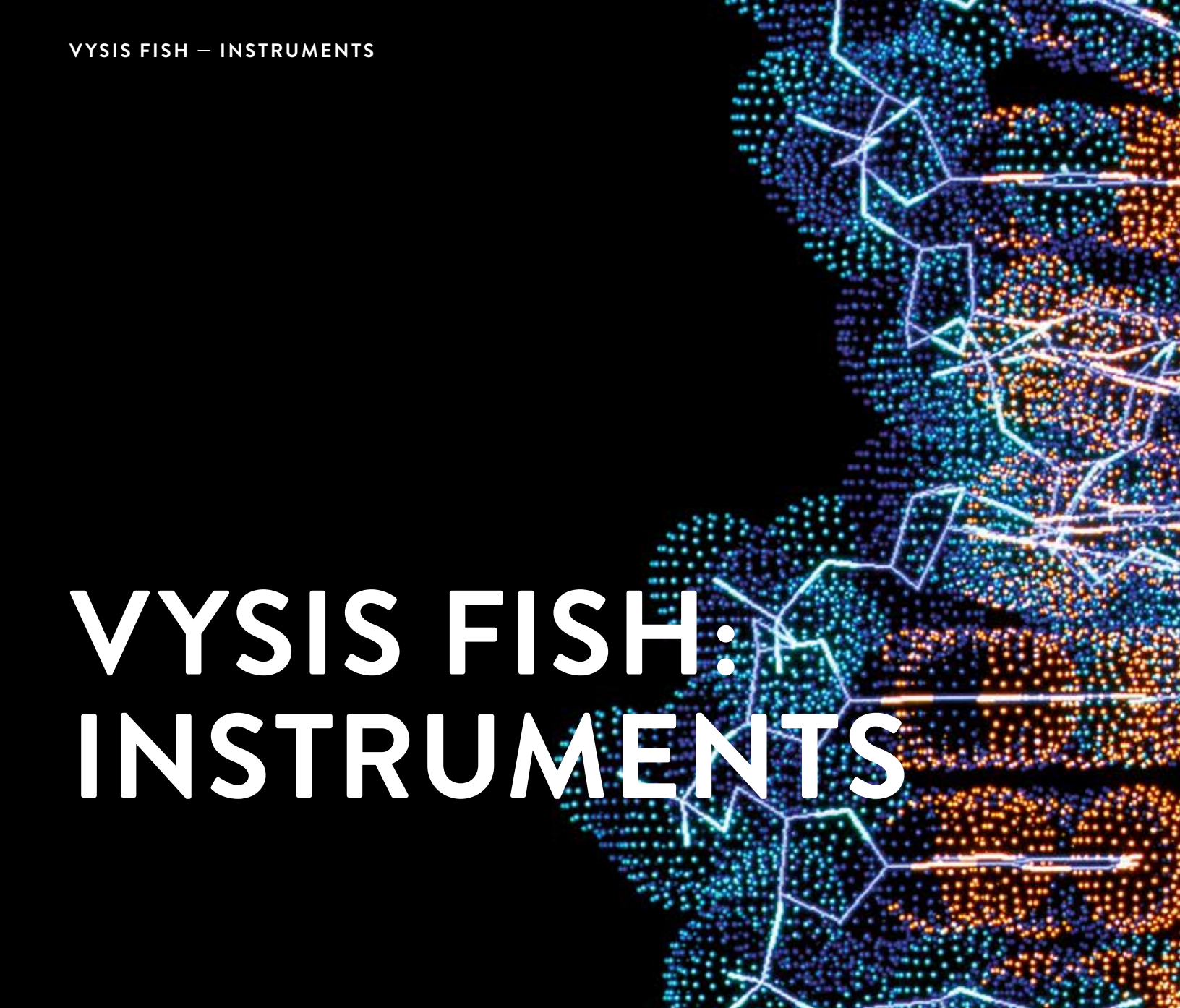
PRODUCT	QUANTITY	ORDER #	GTIN
<b>VP 2000 REAGENTS</b>			
2M MgCl <sub>2</sub> (GPR)	120 mL	02J09-030	00884999001893
Protease Buffer II, 2 x 62.5 ml (GPR)	2 x 62.5 ml	01N99-001	00884999001404
Protease IV (ASR)	75 mg x 5	06N46-001	00884999035843
Protease IV (GPR)	750 mg x 5	06N46-002	00884999035850
VP 2000 Pretreatment (GPR)	500 mL	02J06-030	00884999001862
VP 2000 Protease Buffer (GPR)	500 mL	02J07-030	00884999001879
VP 2000 Protease I (GPR)	250 mg x 2	02J08-032	00884999001886
VP 2000 Protease II (GPR)	750 mg	06J93-001	00884999023468
VP 2000 Pretreatment Kit* (GPR)	1 kit	08N16-001	00884999038189
<b>GENERAL PURPOSE REAGENTS / HYBRIDIZATION REAGENTS</b>			
20X SSC (GPR)	500 g	02J10-032	00884999001909
2M MgCl <sub>2</sub> (GPR)	120 mL	02J09-030	00884999001893
Antifade II Solution (GPR)	60 µL x 2	06J29-001	00884999019324
Antifade Solution (GPR)	240 µL x 2	06J29-010	00884999019331
Vysis IntelliFISH DAPI 1 Counterstain for FFPE Specimens (CE)	1 vial, 300µL	09N54-010	00884999048232
DAPI I Counterstain (GPR)	500 µL x 2	06J49-001	00884999021624
DAPI II Counterstain (GPR)	500 µL x 2	06J50-001	00884999021648
DAPI III Counterstain (GPR)	500 µL x 2	06J49-010	00884999021631
Vysis IntelliFISH Hybridization Buffer (1 Vial) (CE)	1 vial, 250 uL	08N87-010	00884999048744
Vysis IntelliFISH Hybridization Buffer (5 Vials) (CE)	1 vial, 250 uL	08N87-015	00884999048751
Hybridization Buffer (GPR)	2 tubes, 6900 µL	06L44-001	00884999024250
LSI/WCP Hybridization Buffer (GPR)	2 x 150 µL	06J67-001	00884999021983
LSI/WCP Hybridization Buffer (GPR)	2 x 500 µL	06J67-011	00884999021990
NP-40 (GPR)	1000 µL x 2	07J05-001	00884999026247
Propidium Iodide Counterstain (GPR)	500 µL x 2	07J06-001	00884999026254
Vysis CEP Hybridization Buffer (GPR)	2 x 150 µL	07J36-001	00884999027565

\*lung cancer specimens only

PRODUCT	QUANTITY	ORDER #	GTIN
<b>LABELING REFERENCE DNA</b>			
Aqua dUTP (GPR)	50nmol, lyophilized	02N35-050	00884999002944
Gold dUTP (GPR)	50nmol, lyophilized	05N18-050	00884999014640
Green dUTP (GPR)	50nmol, lyophilized	02N32-050	00884999002913
Nick Translation Kit (GPR)	50 reactions	07J00-001	00884999025936
Orange dUTP (GPR)	50nmol, lyophilized	02N33-050	00884999002920
Red dUTP (GPR)	50nmol, lyophilized	02N34-050	00884999002937
SpectrumGreen Normal Female Reference DNA (GPR)	300 ng/ $\mu$ L x 25uL	07J03-001	00884999026209
SpectrumGreen Normal Male Reference DNA (GPR)	300 ng/ $\mu$ L x 25uL	07J03-005	00884999026216
SpectrumRed Normal Female Reference DNA (GPR)	100 ng/ $\mu$ L x 25uL	07J04-001	00884999026223
SpectrumRed Normal Male Reference DNA (GPR)	100 ng/ $\mu$ L x 25uL	07J04-005	00884999026230

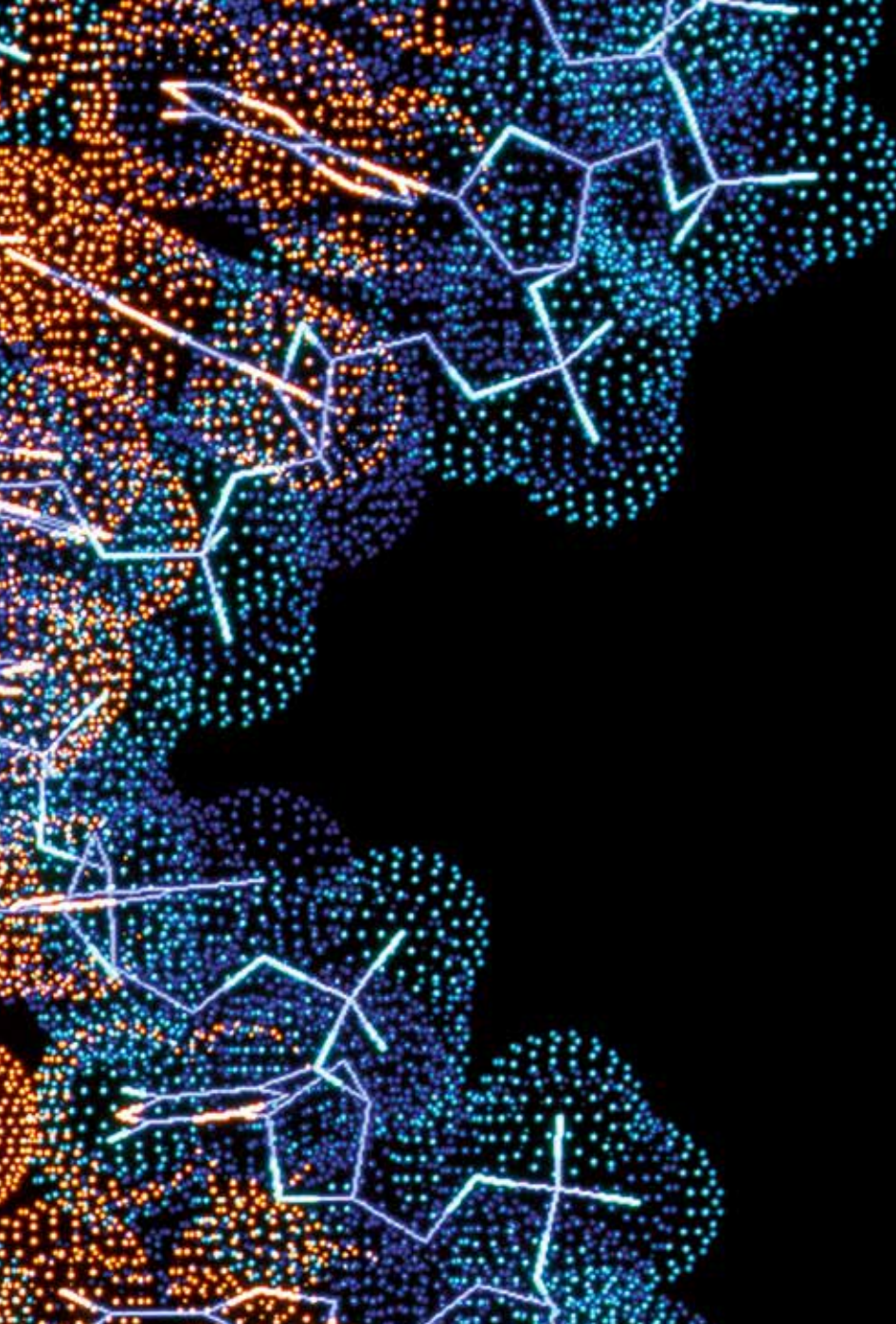


# VYSIS FISH: INSTRUMENTS



Automation is essential for laboratories interested in reducing the amount of hands-on-time required to run FISH assays, while increasing laboratory throughput, flexibility, reproducibility and productivity. Abbott is pleased to offer FISH automation options to suit the needs of your laboratory.





## VYSIS FISH INSTRUMENTS PROVIDE THE FOLLOWING ADVANTAGES:

- You can perform deparaffinization, pretreatment, histology/cytology staining, special stains (G-banding and other), and routine slide washing with a single system.
- The easy-to-operate user interface of the VP 2000 / VIP 2000 Processor and Upgrade allows the user to enter and save user-defined protocols for various staining procedures and specimen pretreatment procedures.
- With the addition of the VIP 2000 upgrade, FISH laboratories have the flexibility to run smaller batch sizes with multiple basin sizes (150mL, 250mL, 500mL) ensuring efficient reagent usage and reduced waste.
- When used in combination with Universal Pretreatment Reagents, the VP 2000 / VIP 2000 Processor and Upgrade provides a flexible and cost-effective solution.
- The ThermoBrite Slide Processing System is a temperature programmable, humidity controlled instrument designed to automate denaturation and hybridization steps for FISH.
- Rapid temperature ramping and accuracy within  $\pm 1^\circ\text{C}$  ensure superior temperature uniformity across all 12 slide positions. Up to 40 user defined protocols and 3 operating modes ensure ease of use and flexibility.

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>BIOVIEW AUTOMATED IMAGING AND ANALYSIS SYSTEM</b>				
Accord Plus Automated Scanner with Single Slide Motorized Stage (CE)	1	Contact Us		385
Accord Semi-Automatic Scanner (Manual Stage) (CE)	1	Contact Us		385
Allegro Plus Automated Scanner with 8 Slides Stage (CE)	1	Contact Us		385
Duet 3 Automated Scanner with 50 slides loader (CE)	1	Contact Us		385
Manual Brightfield Imaging (RUO)	1	08N52-14	07290107652957	388
Manual Karyotype Capture (RUO)	1	08N52-15	07290107652964	388
Automated Brightfield Scanning (RUO)	1	08N52-16	07290107652971	388
G/R-Band Brightfield Metaphase Finder (RUO)	1	08N52-17	07290107652988	388
Karyotyping Software (RUO)	1	08N52-24	07290107653015	388
Amniotic Fluid Scanning Applications (CE)	1	08N52-26	07290107653039	388
Cell Suspension Target FISH Dual Mode Application (CE)	1	08N52-31	07290107653060	388
Consecutive Cut Tissue FISH Application (RUO)	1	08N52-32	07290107653077	388
AneuVysion Application (CE)	1	08N52-36	07290107653091	388
Sub-telomeric Application (CE)	1	08N52-37	07290107653107	388
Sperm Scanning Applications FL (CE)	1	08N52-38	07290107653114	388
Cervical Probe Scanning application includes Oral Cancer Scanning (CE)	1	08N52-39	07290107653121	388
Post-Natal Scanning Applications (CE)	1	08N52-40	07290107653138	388
ERG Probe Scanning Application (CE)	1	08N52-41	07290107653145	388
ImmunoFluorescence Applications (RUO)	1	08N52-42	07290107653152	388
Research Aid Software (RUO)	1	08N52-43	07290107653169	388
Fluorescent TMA mapping application (CE)	1	08N52-44	07290107653176	388
G/R-Band automated high resolution metaphase capture for Karyotyping (RUO)	1	08N52-45	07290107653183	388
UroVysion Scanning Application (CE)	1	08N52-46	07290107653190	388
Tissue Samples – Vysis ALK (CE)	1	08N52-47	07290107653206	388
Tissue Samples – PathVysion (CE)	1	08N52-52	07290107653237	388
Bladder Cancer Scanning Application (CE)	1	08N52-53	07290107653244	388
Hematological Scanning Application (CE)	1	08N52-54	07290107653251	388
SOLO WEB for 10 Concurrent Users (CE)	1	08N52-55	07290107652940	388

	QUANTITY	ORDER #	GTIN	PG
<b>THERMOBRITE</b>				
ThermoBrite - 110/120 VAC (CE)	1	07J91-010	00884999029507	390
ThermoBrite - 200/240 VAC (CE)	1	07J91-020	00884999029514	390
ThermoBrite Humidity Strips	10 pk	07J68-001	00884999029101	390
<b>VP 2000 PROCESSOR &amp; UPGRADE KIT</b>				
VP 2000 Processor - 100 VAC, 50/60 HZ (CE)	1	02J11-060	00884999002074	392
VP 2000 Processor - 230 VAC, 50/60 HZ (CE)	1	02J11-004	00884999001930	392
VP 2000 Processor - 117 VAC, 50/60 HZ (CE)	1	02J11-001	00884999001916	392
VIP2000 Upgrade Kit (CE)	1	02J11-065	00884999047310	392
<b>VP 2000 / VIP 2000 UPGRADE KIT ACCESSORIES</b>				
Carbon Filter System w/ integrated blower fan - 117 VAC (CE)	1	02J11-019	00884999001985	395
Carbon Filter System w/ integrated blower fan - 230 VAC	1	02J11-070	00884999002081	395
Carbon Filter System w/ integrated blower fan - 100 VAC	1	02J11-023	00884999048713	395
Carbon Filter Replacement Cassette (CE)	1	02J11-022	00884999001992	395
Air Ducting Hose Kit	1	02J11-016	00884999001978	395
<b>VP 2000 / VIP 2000 UPGRADE KIT REAGENTS</b>				
VP 2000 Pretreatment Reagent (GPR)	500 mL	02J06-030	00884999001862	396
VP 2000 Protease Buffer (GPR)	500 mL	02J07-030	00884999001879	396
VP 2000 Protease I (GPR)	250 mg x 2	02J08-032	00884999001886	396
VP 2000 Protease II (GPR)	750 mg	06J93-001	00884999023468	396
20X SSC (GPR)	500 g	02J10-032	00884999001909	396
2M MgCl <sub>2</sub> (GPR)	120 mL	02J09-030	00884999001893	396

PRODUCT	QUANTITY	ORDER #	GTIN	PG
<b>VP 2000 / VIP 2000 UPGRADE KIT REPLACEMENT PARTS</b>				
Slides Basket - 8 slides (CE)	1	02J11-087	00884999046238	397
Slides Basket - 20 slides (CE)	1	02J11-088	00884999046245	397
Slides Basket - 50 slides (CE)	1	02J11-007	00884999001947	397
Ambient Basin - 150 mL (CE)	1	02J11-081	00884999046177	397
Ambient Basin - 250 mL (CE)	1	02J11-083	00884999046191	397
Ambient Basin - 500 mL (pack of 6) (CE)	1	02J11-010	00884999001954	397
Heated Basin - 150 mL (CE)	1	02J11-082	00884999046184	397
Heated Basin - 250 mL (CE)	1	02J11-084	00884999046207	397
Heated Basin - 500 mL (CE)	1	02J11-013	00884999001961	397
Heated Basin Lids (pack of 3) (CE)	1	02J11-034	00884999002050	397
Reagent Basin Carrier (CE)	1	02J11-075	00884999002098	397



## BioView Instruments



PRODUCT	QUANTITY	ORDER #	GTIN
Accord Semi-Automatic Scanner (Manual Stage) (CE)	1	Contact Us	
Accord Plus Automated Scanner with Single Slide Motorized Stage (CE)	1	Contact Us	
Allegro Plus Automated Scanner with 8 Slides Stage (CE)	1	Contact Us	
Duet 3 Automated Scanner with 50 slides loader (CE)	1	Contact Us	

### PRODUCT DESCRIPTION

BioView provides innovative automated cell imaging and analysis solutions for use in cytology, cytogenetics, hematology, pathology, and oncology laboratories.

### Viewing a Better Future For You

**BioView application suite:**

- Amnio FISH (AneuVysion)
- Bladder (UroVysion)
- Breast (PathVysion)
- Cervical
- Circulating Tumor Cells (CTC)
- Fluorescent Metaphase
- Hematology
- Karotyping
- Lung (Vysis ALK)
- Solid Tumors
- Target FISH
- Tissue Matching
- Tissue Micro Array (TMA)
- Urine Cytology

**Application Considerations**

Operator control of the critical steps:

- Selection of cells within tumor regions (tissue)
- Review and approval of scan results (tissue/cell suspension)
- Report generation containing all pertinent data
- Standardization of analysis and results
- Local and remote review/analysis for interpretation, consultation and training

To learn more about BioView please visit:

<https://www.molecular.abbott/int/en/products/instrumentation/bioview>

# AUTOMATED IMAGING AND ANALYSIS SYSTEMS CONFIGURATIONS

	3-Duet	Allegro-Plus	Accord-Plus	Accord
Fully unattended scanning		+		Semi-automated
Fluorescent microscope and fillers	+			
Oil immersion objectives for automated fluorescent scanning	+	+	+	+
Slide load capacity of motorized stage	Up to 50	Up to 8	Single	Single
2D Integrated automated barcode reader	+	N.A	N.A	N.A
Integrated automated oil dispenser	Optional	Optional	-	-
Fluorescent light source	Metal-Halide/Mercury			
Bright field light source	Optional			
Digital camera	2448 x 2048 Monochrome or Color			
UPS	+			
Monitor	23" or 24" Touch screen			
Solo review and analysis workstation	Optional			
SoloWeb compatibility	+			
Supported applications	<ul style="list-style-type: none"> <li>• FISH</li> <li>• Karyotyping</li> <li>• Target-FISH*</li> <li>• Parallel tissue matching*</li> <li>• Digital pathology*</li> <li>• IHC*</li> </ul>		<ul style="list-style-type: none"> <li>• TMA*</li> <li>• FL Metaphase detection and capture</li> <li>• Rare cells detection*</li> <li>• Circulating tumor cells detection and characterization mRNA imaging and analysis*</li> </ul>	

\*Not available on Accord system configuration.



## BioView Applications



PRODUCT	QUANTITY	ORDER #	GTIN
Manual Brightfield Imaging (RUO)	1	08N52-14	07290107652957
Manual Karyotype Capture (RUO)	1	08N52-15	07290107652964
Automated Brightfield Scanning (RUO)	1	08N52-16	07290107652971
G/R-Band Brightfield Metaphase Finder (RUO)	1	08N52-17	07290107652988
Karyotyping Software (RUO)	1	08N52-24	07290107653015
Amniotic Fluid Scanning Applications (CE)	1	08N52-26	07290107653039
Cell Suspension Target FISH Dual Mode Application (CE)	1	08N52-31	07290107653060
Consecutive Cut Tissue FISH Application (RUO)	1	08N52-32	07290107653077
AneuVysion Application (CE)	1	08N52-36	07290107653091
Sub-Telomeric Application (CE)	1	08N52-37	07290107653107
Sperm Scanning Applications FL (CE)	1	08N52-38	07290107653114
Cervical Probe Scanning application includes Oral Cancer Scanning (CE)	1	08N52-39	07290107653121
Post-Natal Scanning Applications (CE)	1	08N52-40	07290107653138
ERG Probe Scanning Application (CE)	1	08N52-41	07290107653145
ImmunoFluorescence Applications (RUO)	1	08N52-42	07290107653152
Research Aid Software (RUO)	1	08N52-43	07290107653169

PRODUCT	QUANTITY	ORDER #	GTIN
Fluorescent TMA Mapping Application (CE)	1	08N52-44	07290107653176
G/R-Band Automated High Resolution Metaphase Capture for Karyotyping (RUO)	1	08N52-45	07290107653183
UroVysion Scanning Application (CE)	1	08N52-46	07290107653190
Tissue Samples – Vysis ALK (CE)	1	08N52-47	07290107653206
Tissue Samples – PathVysion (CE)	1	08N52-52	07290107653237
Bladder Cancer Scanning Application (CE)	1	08N52-53	07290107653244
Hematological Scanning Application (CE)	1	08N52-54	07290107653251
SOLO WEB for 10 Concurrent Users (CE)	1	08N52-55	07290107652940

## APPLICATION DETAILS

### Tissue FISH

- Automated FISH analysis for all probes hybridized to FFPE tissue sections
- Supports matching between parallel tissue sections (Brightfield and Fluorescence)

### Hematology FISH

- Automated FISH analysis for all probes hybridized to Bone Marrow and Peripheral blood samples
- BioView's Hematology application is FDA cleared (510k) and CE-marked
- Supports automatic evaluation of multiple regions hybridized with different probes on same slide (Panels)

### UroVysion

- Automated FISH analysis for urine specimens hybridized with UroVysion Kit
- Automatic identification and exclusion of cell clumps and white blood cells

To learn more about BioView please visit:

<https://www.molecular.abbott/int/en/products/instrumentation/bioview>

## ThermoBrite



PRODUCT	QUANTITY	ORDER #	GTIN
ThermoBrite - 110/120 VAC <b>(CE)</b>	1	07J91-010	00884999029507
ThermoBrite - 200/240 VAC <b>(CE)</b>	1	07J91-020	00884999029514
ThermoBrite Humidity Strips	10 pk	07J68-001	00884999029101

### PRODUCT DESCRIPTION

The ThermoBrite System is an easy, safe programmable temperature controlled slide processing system for in-situ denaturation/hybridization procedures.

The ThermoBrite System is a programmable, open system that automates the denaturation and hybridization steps in slide-based FISH procedures and provides walk-away convenience for laboratory personnel. The low cost unit accepts a wide range of sample types, is easy to use, and reduces hands-on time by more than 50% while ensuring overall precision and accuracy in all slide-based assays.

**User Programmable Settings**

- 40 user defined protocols and 3 operating modes
- Easy to read backlit display
- Numeric keypad allows for easy programming
- Can be used as a fixed temperature slide warmer

**Easy To Use**

- Eliminates manual steps and reduces hands-on time during FISH procedures
- Slides do not need to be fully loaded to maintain temperature accuracy
- Slide guide keeps slides in place and allows for one hand removal
- Humidity Control Cards inside the lid maintain a humid environment

**More Stringent Temperature Control**

- Rapid temperature ramp-up and accuracy of ± 1°C
- Temperature uniformity across all slide positions
- Heats slide to temperatures ideal for FISH procedures

**System Details**

The ThermoBrite System holds up to 12 slides. The lid seals tightly when closed providing optimal chamber humidity. The system maintains uniform temperature across all slide positions. Slides can be easily added or removed with one hand. The numeric keypad allows for easy programming with 40 user programmable settings and 3 modes of operation: Denaturation / Hybridization, Hybridization, and Fixed Temperature.

To learn more about ThermoBrite please visit: <https://www.molecular.abbott/int/en/products/instrumentation/thermobrite>

SPECIFICATIONS

THERMOBRITE SYSTEM TECHNICAL SPECIFICATIONS	
Dimensions	Height 146mm (5 5/16 inches) Width 228 mm (9.0 inches) Depth 451 mm (17 3/4 inches) Weight 8.5 kg (18.7 lbs)
Capacity	12 slides
Processing Time	Programmable 0 to 100 hours Continuous mode
Power	120 VAC at 3A 240 VAC at 1.6A
Temperature Control	Programmable 30-99°C
Ambient Operating Temperature	15-40°C (41-104°F)
Ambient Operating Humidity	20-80% relative

## VP 2000 Processor and VIP 2000 Upgrade Kit



PRODUCT	QUANTITY	ORDER #	GTIN
VP 2000 Processor - 100 VAC, 50/60 HZ (CE)	1	02J11-060	00884999002074
VP 2000 Processor - 117 VAC, 50/60 HZ (CE)	1	02J11-001	00884999001916
VP 2000 Processor - 230 VAC, 50/60 HZ (CE)	1	02J11-004	00884999001930
VIP 2000 Upgrade Kit (CE)	1	02J11-065	00884999047310

### PRODUCT DESCRIPTION

Now you can perform deparaffinization, pretreatment, histology/cytology staining, special stains (G-banding and other), and routine slide washing with a single system. The easy-to-operate user interface of the VP 2000 / VIP 2000 Processor and Upgrade kit allows the user to enter and save user-defined protocols for various staining procedures and specimen pretreatment procedures.

This flexibility provides your laboratory with an instrument (VP 2000) that can be utilized for multiple functions within a single workday. Now with the addition of the VIP 2000 upgrade, FISH laboratories have the flexibility to run smaller batch sizes with multiple basin sizes (150mL, 250mL, 500mL) ensuring efficient reagent usage and reduced waste. When used in combination with Universal Pretreatment Reagents, the VP2000 / VIP 2000 Processor and Upgrade can batch multiple tissue types together thereby reducing overall processing time. As your laboratory adds high-volume FISH testing to your menu of routine services, the VP 2000 / VIP 2000 Processor and Upgrade provides a flexible and cost-effective solution.



**VP 2000 / VIP 2000 Processor and Upgrade Advantages**

- Convenient walk-away automation to reduce laboratory labor and costs
- Performs more consistent and standardized FISH assay deparaffinization and pretreatment
- Validated for use with Vysis FISH pretreatment protocols including solid tumor and cytological specimens, such as amniocytes and bladder tumor cells
- Full user programmability of events for maximum flexibility
- Open system is compatible with reagents used in today's laboratories
- Multiple basin sizes and slide racks to minimize waste and increase flexibility
- Bulk reagents available for added economy and ease-of-use
- Touchscreen computer for easier management of each run
- Driven by a PC with Windows (8.1) user interface (included in package)
- Five-way safety protection
- Ergonomic cover design with improved basin access
- Reliability to stay on the job processing slides, year after year

**Automated FISH Testing**

The VP 2000 Processor, in conjunction with the Vysis Thermobrite System for denaturation/hybridization provides a modular systems approach to automated FISH testing.

To learn more about VP 2000 Processor and VIP 2000 Upgrade Kit please visit:

<https://www.molecular.abbott/int/en/products/instrumentation/vp-2000-processor-vip2000-processor>

**SPECIFICATIONS (CE)**

VP 2000 PROCESSOR TECHNICAL SPECIFICATIONS	
Software	Proprietary VP 2000
Slide Capacity per Run	150 mL basin holds up to 8 slides 250 mL basin holds up to 20 slide 500 mL basin holds up to 50 slides
Ambient Reagent Basins	12
Heated Reagent Basins	3
Program Capacity	>1000
Events per Program	>100
Water Bath Flow Rate	1L/min

SPECIFICATIONS

Dimensions (L x W x H) Processing Unit	35 x 25 x 22 in. (89 x 62 x 56 cm)
Weight - Processing Unit	117 VAC - 169 lbs. (77 kg) 100/230 VAC - 182 lbs (83 kg)
Computer Configuration	Pentium Class PC, 600 MB or greater
Heated Reagent Basin Temperature	Ambient to 80 °C
Operating Temperature	15-30 °C
Drying Station Temperature	Ambient to 80 °C
Systems	117 VAC, 60 Hz 230 VAC, 50/60 Hz 100 VAC, 50/60 Hz

## VP 2000 / VIP 2000 Upgrade Kit Accessories

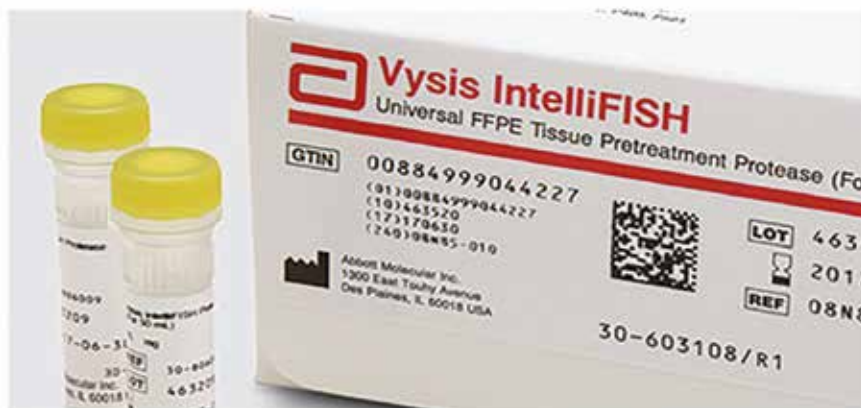


PRODUCT	QUANTITY	ORDER #	GTIN
Carbon Filter System w/ integrated blower fan - 117 VAC <b>(CE)</b>	1	02J11-019	00884999001985
Carbon Filter System w/ integrated blower fan - 230 VAC	1	02J11-070	00884999002081
Carbon Filter System w/ integrated blower fan - 100 VAC	1	02J11-023	00884999048713
Carbon Filter Replacement Cassette <b>(CE)</b>	1	02J11-022	00884999001992
Air Ducting Hose Kit	1	02J11-016	00884999001978

### PRODUCT DESCRIPTION

To ensure proper function of Abbott VP 2000 Processor, only accessories and consumables supplied by Abbott should be used.

## VP 2000 / VIP 2000 Upgrade Kit Reagents

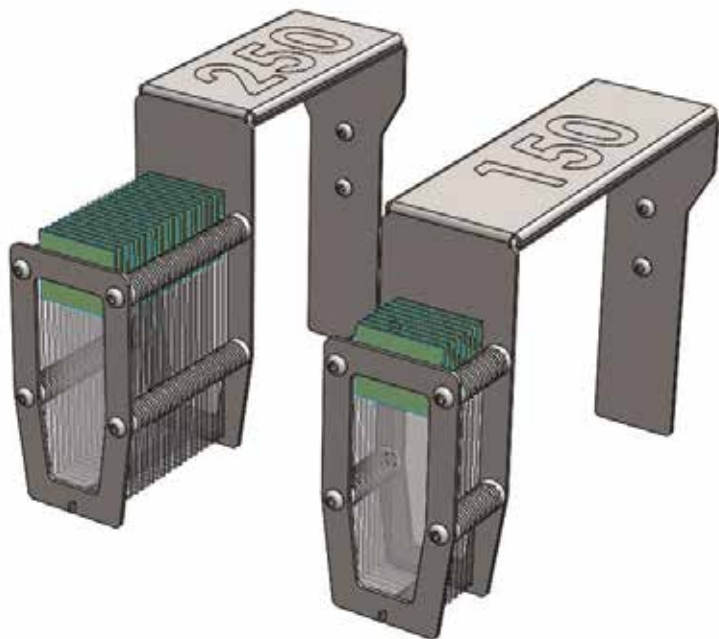


PRODUCT	QUANTITY	ORDER #	GTIN
VP 2000 Pretreatment Reagent (GPR)	500 mL	02J06-030	00884999001862
VP 2000 Protease Buffer (GPR)	500 mL	02J07-030	00884999001879
VP 2000 Protease I (GPR)	250 mg x 2	02J08-032	00884999001886
VP 2000 Protease II (GPR)	750 mg	06J93-001	00884999023468
20X SSC (GPR)	500 g	02J10-032	00884999001909
2M MgCl <sub>2</sub> (GPR)	120 mL	02J09-030	00884999001893

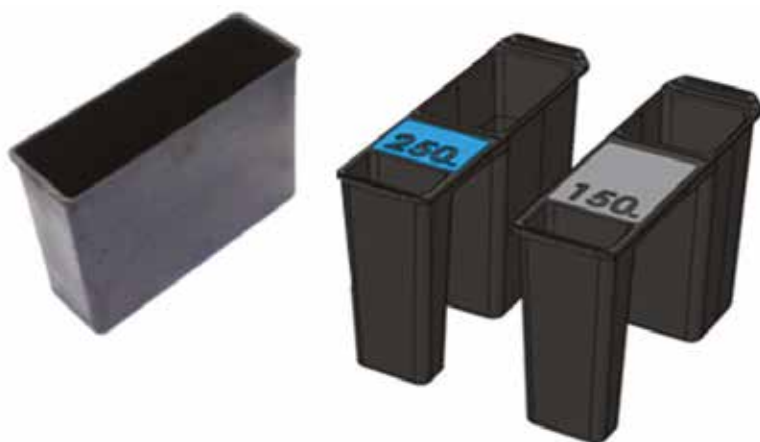
## PRODUCT DESCRIPTION

VP 2000 / VIP 2000 reagents are specifically designed for automated deparaffinization and pre-treatment protocols for Vysis FISH assays.

# VP 2000 / VIP 2000 Upgrade Kit Replacement Parts



Slide Carrier Racks



Ambient Basins



### Heated Basins

PRODUCT	QUANTITY	ORDER #	GTIN
Slides Basket - 8 slides (CE)	1	02J11-087	00884999046238
Slides Basket - 20 slides (CE)	1	02J11-088	00884999046245
Slides Basket - 50 slides (CE)	1	02J11-007	00884999001947
Ambient Basin - 150 mL (CE)	1	02J11-081	00884999046177
Ambient Basin - 250 mL (CE)	1	02J11-083	00884999046191
Ambient Basin - 500 mL (pack of 6) (CE)	1	02J11-010	00884999001954
Heated Basin - 150 mL (CE)	1	02J11-082	00884999046184
Heated Basin - 250 mL (CE)	1	02J11-084	00884999046207
Heated Basin - 500 mL (CE)	1	02J11-013	00884999001961
Heated Basin Lids (pack of 3) (CE)	1	02J11-034	00884999002050
Reagent Basin Carrier (CE)	1	02J11-075	00884999002098

### PRODUCT DESCRIPTION

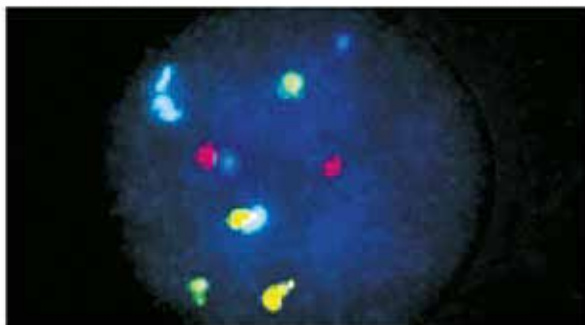
To ensure proper function of Abbott VP 2000 Processor, only accessories and consumables supplied by Abbott should be used. VP 2000 / VIP 2000 Upgrade Kit Replacement Parts can be ordered separately.

# VYSIS MICROSCOPE FILTERS

Vysis filter sets can be specified for most microscope types and models. Some of the most common filter holders and sliders are available from Abbott. If your model is not listed, please contact your local Abbott representative. For ordering information, please visit the Microscope Filter Order Form Online: <https://www.molecular.abbott/int/en/order-microscope-filters>

The Vysis microscope filter sets are high-quality filter sets that are designed to provide optimal excitation and emission of the Vysis fluorophore labeled DNA FISH probes. The specific Vysis design filter sets provide a wider bandpass, steeper profile, and maximum fluorescence throughput specific for Vysis fluorophores. In addition, the Vysis filter sets carry a one year warranty against defects.

Many of the Vysis filter sets are also suitable for excitation and emission of other manufacturers' FISH probes that are labeled with the common fluorophores such as rhodamine, TexasRed®, and fluorescein.



# Single Bandpass Filter Sets

Note: The filters listed are recommended for evaluation of Abbott Vysis FISH probes.

## ORANGE

The Orange filter set is designed to excite and transmit SpectrumOrange fluorescence. The Vysis SpectrumOrange labeled DNA FISH probes can be viewed, analyzed, and imaged using this filter set. The SpectrumRed fluorophore will be visible using this filter set, but will be dim.

## RED

The Red filter set is designed to excite and transmit SpectrumRed fluorescence. The Vysis SpectrumRed labeled DNA FISH probes can be viewed, analyzed, and imaged using this filter set. This filter set can also be used for TexasRed labeled DNA FISH probes that are available from other probe manufacturers. The SpectrumRed filter set is not recommended for viewing SpectrumOrange labeled probes.

## GOLD

The Gold filter set is designed to excite and transmit SpectrumGold fluorescence. The Vysis SpectrumGold labeled DNA FISH probes can be viewed, analyzed, and imaged using this filter set. The Vysis SpectrumOrange probe fluorescence will also be visible with the Gold filter set. SpectrumRed fluorescence may be visible, yet very dim.

## GREEN

The Green filter set is designed to excite and transmit SpectrumGreen fluorescence. The Vysis SpectrumGreen labeled DNA FISH probes can be viewed, analyzed, and imaged using this filter set.

## AQUA

The Aqua filter set is designed to excite and transmit SpectrumAqua fluorescence. The Vysis SpectrumAqua labeled DNA FISH probes can be viewed, analyzed, and imaged using this filter set. Filter sets that excite and transmit DAPI fluorescence are not appropriate for SpectrumAqua labeled probes. In some instances, when a hybridization signal is very intense for the Vysis SpectrumAqua labeled DNA probe, the aqua fluorescence may be visible through a DAPI filter set.

However, this will not provide a reliable method for analysis of SpectrumAqua labeled probes. In addition, on specimens

counterstained with DAPI, extremely weak DAPI fluorescence may be observed when viewing or imaging through an Aqua single bandpass filter set.

## BLUE

The Blue filter set is designed to excite and transmit SpectrumBlue fluorescence and is useful when viewing the SpectrumBlue fluorophore alone. The Vysis SpectrumBlue labeled DNA FISH probes can be viewed, analyzed, and imaged using this filter set. DAPI fluorescence will also be visible with this filter set. SpectrumAqua fluorescence will be visible through the Blue filter set, but will be dim.

## DAPI

The DAPI filter set is designed to excite and transmit DAPI counterstain fluorescence.



# Dual Bandpass Filter Sets

## DAPI/ORANGE

The DAPI/Orange filter set is designed to excite and transmit SpectrumOrange and DAPI counterstain fluorescence simultaneously. This filter is useful when the nuclear and chromosomal DNA is counterstained with DAPI and the SpectrumOrange fluorophore must be viewed concurrently. This filter set is recommended for many of the Vysis SpectrumOrange labeled DNA FISH probes that can be analyzed simultaneously while viewing the DAPI counterstain.

## DAPI/9-ORANGE

The DAPI/9-Orange filter set is designed to excite and transmit SpectrumOrange and the DAPI counterstain fluorescence simultaneously. This filter set is designed to minimize autofluorescence from paraffin-embedded specimens. This filter is useful when the nuclear and chromosomal DNA is counterstained with DAPI and the SpectrumOrange fluorophore must be viewed concurrently.

## DAPI/GREEN

The DAPI/Green filter set is designed to excite and transmit SpectrumGreen and DAPI fluorescence simultaneously. This filter is useful when the nuclear and chromosomal DNA is counterstained with DAPI and the SpectrumGreen fluorophore must be viewed concurrently. This filter set is recommended for many of the Vysis SpectrumGreen labeled DNA FISH probes that can be analyzed simultaneously while viewing the DAPI counterstain.

# Triple Bandpass Filter Sets

## DAPI/GREEN/ORANGE

The DAPI/Green/Orange filter set is designed to excite and transmit SpectrumGreen, SpectrumOrange, and DAPI counterstain fluorescence simultaneously. This filter is useful when the nuclear and chromosomal DNA is counterstained with DAPI and the two fluorophores SpectrumGreen and SpectrumOrange must be viewed concurrently. This filter set is recommended for most of the Vysis dual color probe mixtures when hybridized to specimens.

## DAPI/GREEN/ORANGE (V.2)

The DAPI/Green/Orange (V.2) filter set is designed to excite and transmit SpectrumGreen, SpectrumOrange and the DAPI counterstain fluorescence simultaneously. This filter is useful when the nuclear and chromosomal DNA is counterstained with DAPI and the SpectrumGreen and SpectrumOrange fluorophores must be viewed simultaneously.

The DAPI/Green/Orange (V.2) filter design may provide better color distinction and brightness of the SpectrumOrange and SpectrumGreen fluorophores when viewing paraffin-embedded specimens as compared to the DAPI/Green/Orange filter set. This filter set is not optimized for viewing dual-color translocation probes where overlay of the SpectrumGreen and SpectrumOrange fluorophores creates a yellow color.

## DAPI/GREEN/RED

The DAPI/Green/Red filter set is designed to excite and transmit SpectrumGreen, SpectrumRed, and the DAPI counterstain fluorescence simultaneously. This filter is useful when the nuclear and chromosomal DNA is counterstained with DAPI and the SpectrumGreen and SpectrumRed fluorophores must be viewed simultaneously. This filter is optimal for viewing probes labeled with SpectrumRed fluorophore while concurrently viewing SpectrumGreen and DAPI.

# Required Vysis Filter Set Configurations

The following filter set configurations are required for the specific Vysis Assays, as indicated. The recommended filter sets provide the most optimal viewing conditions. If not indicated, contact your local Abbott Technical Service representative for more information on appropriate filter set configurations for imaging.

## PATHVYSION HER-2 DNA ASSAY FILTER SETS

The following filter sets are recommended for viewing and enumeration of the PathVysion HER-2 Assay. These filter sets are optimized both for Vysis SpectrumGreen and SpectrumOrange fluorophores and for paraffin-embedded specimen autofluorescence. The dual bandpass filter sets allow the user to view signals of each respective individual color fluorophore and the DAPI counterstain. The triple bandpass filter set allows the user to visualize the SpectrumGreen, SpectrumOrange, and DAPI fluorescent signals simultaneously.

VYSIS FILTER SET	FLUOROPHORES DETECTED
DAPI/9-Orange (NB) dual bandpass	SpectrumOrange and DAPI
DAPI/Green dual bandpass	SpectrumGreen and DAPI
DAPI/Green/Orange (V.2) triple bandpass	SpectrumGreen/SpectrumOrange/DAPI (specifically designed for viewing paraffin sections)

## ANEUVYSION ASSAY FILTER SETS

The following filter set configuration provides the best microscope filter set-up for viewing and analysis of the AneuVysion Assay on uncultured amniocytes.

VYSIS FILTER SET	FLUOROPHORES DETECTED
Aqua single bandpass	SpectrumAqua
Green single bandpass	SpectrumGreen
Orange single bandpass	SpectrumOrange
DAPI/Green/Orange triple bandpass	SpectrumGreen/SpectrumOrange/ DAPI

**UROVYSION ASSAY FILTER SETS**

VYSIS FILTER SET	FLUOROPHORES DETECTED
Aqua single bandpass	SpectrumAqua
DAPI single bandpass	DAPI
Gold (Yellow) single bandpass	SpectrumGold
Red/Green dual bandpass	SpectrumRed/SpectrumGreen

**CLL FISH PROBE KIT FILTER SETS**

VYSIS FILTER SET	FLUOROPHORES DETECTED
Aqua single bandpass	SpectrumAqua
DAPI single bandpass	DAPI
Green single bandpass	SpectrumGreen
Green/Orange dual bandpass	SpectrumGreen/SpectrumOrange
Orange single bandpass	SpectrumOrange

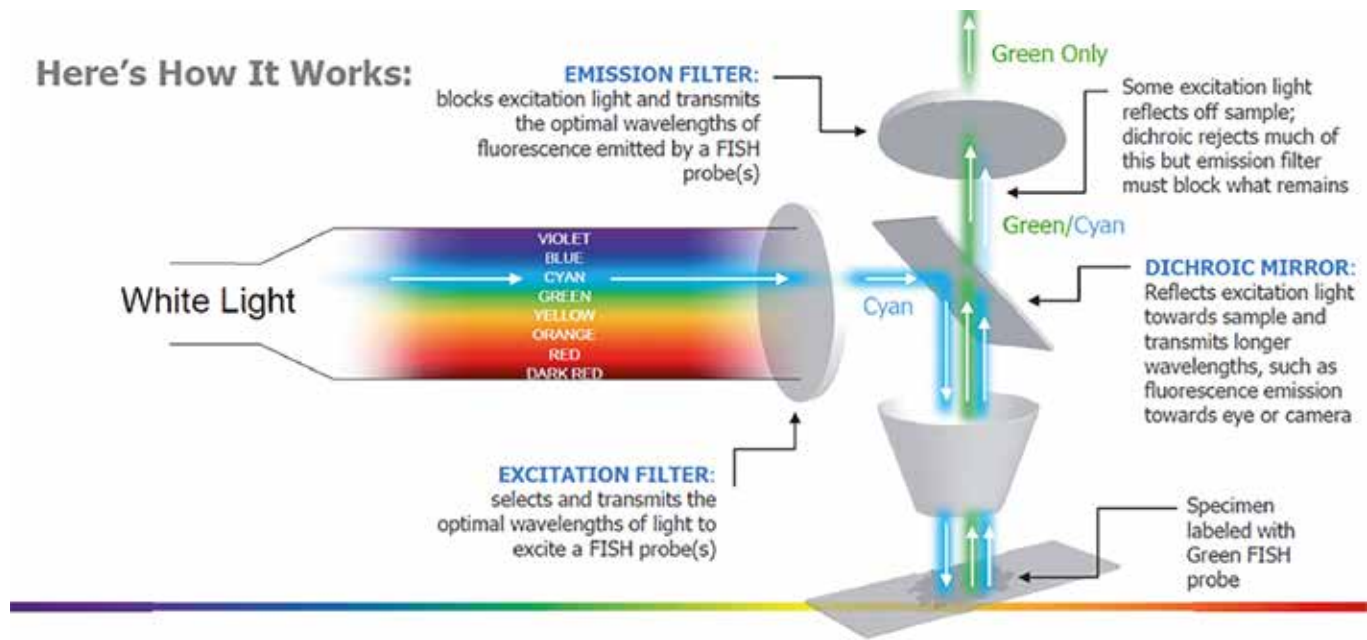
**ALK BREAK APART FISH PROBE KIT FILTER SETS**

VYSIS FILTER SET	FLUOROPHORES DETECTED
DAPI single bandpass	DAPI
Green single bandpass	SpectrumGreen
Green/Orange dual bandpass	SpectrumGreen/SpectrumOrange
Orange single bandpass	SpectrumOrange

**VYSIS ROS1 BREAK APART FISH PROBE KIT FILTER SETS**

VYSIS FILTER SET	FLUOROPHORES DETECTED
DAPI single bandpass	DAPI
Green single bandpass	SpectrumGreen
Green/Orange dual bandpass (V2)	SpectrumGreen/SpectrumOrange
Orange single bandpass	SpectrumOrange

# The Fluorescence Microscope



The critical components of the fluorescence microscope optical train are depicted in the diagram above. Microscope filter sets are custom manufactured to fit the dimensions required by each type of microscope and filter wheel. Filters are manufactured as matched sets consisting of the excitation filter, dichroic filter, and emission filter. As such, it is necessary to provide all of the

required information, when ordering filter sets. Without the appropriate information, the correct microscope filter cannot be manufactured. In addition, delays in order processing due to inaccurate or incomplete information will delay the fulfillment of the filter set order. Contact Vysis Technical Service for more information on microscope filter sets and the appropriate configuration for your laboratory's specific needs. <https://www.molecular.abbott/int/en/contact-technical-support>

# PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 1</b>			
1q21 CKS1B SpectrumOrange / 1p32 CDKN2C SpectrumGreen FISH Probe Kit (RUO)	20 µL	08N78-020	00884999043206
Vysis TelVysion 1p SpectrumGreen (ASR)	5 µL	05J03-001	00884999009882
Vysis TelVysion 1q SpectrumOrange (ASR)	5 µL	05J04-001	00884999010246
Vysis CEP 1 (D1Z5) SpectrumOrange Probe (ASR)	20 µL	06J39-026	00884999020153
Vysis CEP 1 SpectrumOrange Probe (ASR)	20 µL	06J36-001	00884999019690
Vysis LSI 1p36 Microdeletion Region Probe (ASR)	20 µL	05J21-020	00884999011328
Vysis LSI (1q23) NTRK1 Break Apart FISH Probe Kit (RUO)	20 µL	08N43-060	00884999042612
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (CE)	2 vials, 200 µl each	04N60-020	00884999009288
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (ASR)	200 µL	07J73-001	00884999029187
Vysis LSI MCL1 SpectrumGold Probe (ASR)	20 µL	07N97-020	00884999037489
Vysis LSI NTRK1 (Cen) SpectrumGreen Probe (ASR)	20 µL	08N43-030	00884999042605

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 1</b>			
Vysis LSI NTRK1 (Tel) SpectrumRed Probe (ASR)	20 µL	08N43-020	00884999042599
Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	01N24-020	00884999000605
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 2</b>			
Vysis TelVysion 2p SpectrumGreen (ASR)	5 µL	05J03-002	00884999009899
Vysis TelVysion 2q SpectrumOrange (ASR)	5 µL	05J04-002	00884999010253
Vysis ALK Break Apart FISH Probe Kit (CE)	20 Assays	06N38-023	00884999042766
Vysis ALK Break Apart FISH Probe Kit (CE)	50 Assays	06N38-050	00884999037205
Vysis ALK Break Apart FISH Probe Kit (Japan Only) (IVD)	20 Assays	06N38-021	00884999035836
Vysis CEP 2 (D2Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-027	00884999019867
Vysis LSI N-MYC SpectrumGreen/CEP 2 SpectrumOrange Probes (ASR)	20 µL	07J72-001	00884999029156
Vysis LSI N-MYC (2p24.1) SpectrumOrange Probe (ASR)	20 µL	05J50-011	00884999011984
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
<b>CHROMOSOME 3</b>			
Vysis TelVysion 3p SpectrumGreen (ASR)	5 µL	05J03-003	00884999009905
Vysis TelVysion 3q SpectrumOrange (ASR)	5 µL	05J04-003	00884999010260
UroVysion Bladder Cancer Kit (CE)	20 Assays	02J27-020	00884999002135
UroVysion Bladder Cancer Kit (CE)	100 Assays	02J27-099	00884999002197
UroVysion Bladder Cancer Kit (Japan Only) (IVD)	20 Assays	02J27-021	00884999048461
Vysis CEP 3 (D3Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-003	00884999019706
Vysis LSI BCL6 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	01N23-020	00884999000582
Vysis LSI PIK3CA SpectrumGreen Probe (ASR)	20 µL	06N10-001	00884999034891
Vysis LSI PIK3CA SpectrumGreen Probe (CE)	20 µL	06N10-020	00884999034907
Vysis LSI RPN1/MECOM DF FISH Probe Kit (CE)	10 µL	06N60-010	00884999034914
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 4</b>			
Vysis TelVysion 4p SpectrumGreen (ASR)	5 µL	05J03-004	00884999009912
Vysis TelVysion 4q SpectrumOrange (ASR)	5 µL	05J04-004	00884999010277
Vysis 4q12 Tri-Color Rearrangement FISH Probe Kit (ASR)	20 µL	01N79-020	00884999001039
Vysis 4q12 Tri-Color Rearrangement FISH Probe Kit (CE)	20 µL	05N52-020	00884999015005
Vysis CEP 4 SpectrumAqua Probe (ASR)	20 µL	06J54-004	00884999021709
Vysis CEP 4 SpectrumGreen Probe (ASR)	20 µL	06J37-004	00884999019935
Vysis CEP 4 SpectrumOrange Probe (ASR)	20 µL	06J36-004	00884999019713
Vysis LSI IGH/FGFR3 DF FISH Probe Kit (CE)	20 µL	01N69-020	00884999000834
Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes (ASR)	20 µL	05J74-001	00884999012417
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis Wolf-Hirschhorn Region LSI WHS SpectrumOrange/CEP 4 SpectrumGreen Probes (ASR)	20 µL	05J29-074	00884999011533
<b>CHROMOSOME 5</b>			
Vysis TelVysion 5p SpectrumGreen (ASR)	5 µL	05J03-005	00884999009929
Vysis TelVysion 5q SpectrumOrange (ASR)	5 µL	05J04-005	00884999010284
Vysis Cri-du-Chat Region Probe - LSI D5S23, D5S721 SpectrumGreen Probe (ASR)	20 µL	05J20-025	00884999011298
Vysis Cri-du-Chat Region Probe - LSI EGR1 SpectrumOrange/ D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J76-001	00884999012455
Vysis EGR1 FISH Probe Kit - SC (Specimen Characterization) (CE)	20 µL	04N37-001	00884999038165
Vysis LSI CSF1R SpectrumOrange/ D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J60-001	00884999012189
Vysis LSI CSF1R/D5S23, D5S721 FISH Probe Kit (CE)	20 µL	05N03-020	00884999014336
Vysis LSI D5S23, D5S721 SpectrumGreen Probe (ASR)	20 µL	04N30-020	00884999008274
Vysis LSI D5S23, D5S721/CEP 9/CEP 15 FISH Probe Kit (CE)	20 µL	05N35-020	00884999014886
Vysis LSI EGR1/D5S23, D5S721 Dual Color Probe Kit (CE)	20 µL	08L68-020	00884999031586
Vysis LSI PDGFRB Break Apart FISH Probe Kit (CE)	10 µL	06N24-010	00884999025585
Vysis Sotos Region LSI NSD1 SpectrumOrange/LSI D5S23, D5S721 SpectrumGreen Probes (ASR)	20 µL	05J48-007	00884999011915
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 6</b>			
Vysis TelVysion 6p SpectrumGreen (ASR)	5 µL	05J03-006	00884999009936
Vysis TelVysion 6q SpectrumOrange (ASR)	5 µL	05J04-006	00884999010291
Vysis 6q22 ROS1 Break Apart FISH Probe (RUO)	20 µL	08N29-020	00884999037892
Vysis ROS-1 Break Apart FISH Probe Kit (CE)	10 Tests	08N29-021	00884999048485
Vysis CEP 6 (D6Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-006	00884999021716
Vysis CEP 6 (D6Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-006	00884999019942
Vysis CEP 6 (D6Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-006	00884999019720
Vysis LSI DEK SpectrumGreen Probe (ASR)	20 µL	09N24-020	00884999046610
Vysis LSI DEK/NUP214 Dual Color, Dual Fusion Translocation FISH Probe Kit (RUO)	20 µL	09N24-060	00884999046627
Vysis LSI MYB (6q23) SpectrumGold Probe (ASR)	20 µL	04N33-020	00884999008328
Vysis LSI MYB SpectrumAqua FISH Probe Kit (CE)	20 µL	05N40-020	00884999014916
Vysis LSI MYB (6q23) SpectrumAqua Probe (ASR)	20 µL	07J86-011	00884999029378
Vysis LSI ROS1 (Cen) SpectrumGreen Probe (ASR)	20 µL	08N07-020	00884999037120
Vysis LSI ROS1 (Tel) SpectrumOrange Probe (ASR)	20 µL	08N05-020	00884999037458
Vysis Melanoma FISH Probe Kit (CE)	200 µL	01N89-020	00884999001312
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 7</b>			
Vysis TelVysion 7p SpectrumGreen (ASR)	5 µL	05J03-007	00884999009943
Vysis TelVysion 7q SpectrumOrange (ASR)	5 µL	05J04-007	00884999010307
UroVysion Bladder Cancer Kit (CE)	100 Assays	02J27-099	00884999002197
UroVysion Bladder Cancer Kit (CE)	20 Assays	02J27-020	00884999002135
UroVysion Bladder Cancer Kit (Japan Only) (IVD)	20 Assays	02J27-021	00884999048461
Vysis BRAF SpectrumGold FISH Probe Kit (CE)	20 µL	06N09-020	00884999025028
Vysis CEP 7 (D7Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-007	00884999021723
Vysis CEP 7 (D7Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-007	00884999019959
Vysis CEP 7 (D7Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-007	00884999019737
Vysis D7S486/CEP 7 FISH Probe Kit (CE)	20 µL	04N78-020	00884999036406



PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 7</b>			
Vysis EGFR / CEP 7 FISH Probe Kit (CE)	20 µL	01N35-020	00884999000773
Vysis LSI D7S486 SpectrumOrange/ CEP 7 SpectrumGreen Probes (ASR)	20 µL	05J61-001	00884999012196
Vysis LSI D7S486/CEP 7 FISH Probe Kit (CE)	20 µL	05N07-020	00884999014367
Vysis LSI D7S522 SpectrumOrange/CEP 7 SpectrumGreen Probes (ASR)	20 µL	05J85-001	00884999012752
Vysis LSI D7S522/CEP 7 FISH Probe Kit (CE)	20 µL	05N08-020	00884999014374
Vysis LSI EGFR SpectrumGreen Probe (ASR)	20 µL	07N98-020	00884999037496
Vysis LSI EGFR SpectrumRed Probe (ASR)	20 µL	04N31-020	00884999008281
Vysis LSI ETV1 (Cen) SpectrumGreen Probe (ASR)	20 µL	07N71-020	00884999036499
Vysis LSI ETV1 (Tel) SpectrumRed Probe (ASR)	20 µL	07N72-020	00884999036482
Vysis MET SpectrumRed FISH Probe Kit (CE)	20 µL	06N05-020	00884999024984
Vysis MET SpectrumRed Probe (ASR)	20 µL	06N05-001	00884999024977
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis Williams Region Probe - LSI ELN SpectrumOrange/LSI D7S486, D7S522 SpectrumGreen Probe Kit (CE)	20 µL	06N28-020	00884999025615
Vysis Williams Region Probe - LSI ELN SpectrumOrange/LSI D7S486, D7S522 SpectrumGreen Probes (ASR)	20 µL	05J30-045	00884999011564
<b>CHROMOSOME 8</b>			
Vysis TelVysion 8p SpectrumGreen (ASR)	5 µL	05J03-008	00884999009950
Vysis TelVysion 8q SpectrumOrange (ASR)	5 µL	05J04-008	00884999010314
Vysis 8p12 FGFR1 SpectrumRed/CEP 8 SpectrumAqua FISH (RUO)	20 µL	08N21-060	00884999038059
Vysis CEP 8 (D8Z2) SpectrumAqua Probe (ASR)	20 µL	06J54-008	00884999021730
Vysis CEP 8 (D8Z2) SpectrumGreen Probe (ASR)	20 µL	06J37-008	00884999019966
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-008	00884999027077
Vysis CEP 8 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-008	00884999027008
Vysis Esophageal FISH Probe Kit (CE)	20 µL	04N19-020	00884999008021
Vysis LSI FGFR1 SpectrumRed Probe (ASR)	20 µL	08N21-020	00884999038042
Vysis LSI IGH/MYC/CEP 8 Tri-Color Dual Fusion FISH Probe Kit (CE)	20 µL	04N10-020	00884999007949
Vysis LSI LPL SpectrumOrange Probe (ASR)	20 µL	04N34-020	00884999008335

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 8</b>			
Vysis LSI MYC Break Apart Rearrangement Probe Kit (CE)	20 µL	01N63-020	00884999000827
Vysis LSI MYC Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J91-001	00884999012844
Vysis LSI MYC (8q24) SpectrumAqua Probe (ASR)	20 µL	02N22-020	00884999002739
Vysis LSI MYC SpectrumGold Probe (ASR)	20 µL	04N35-020	00884999008342
Vysis LSI MYC SpectrumGreen Probe (ASR)	20 µL	04N36-020	00884999008359
Vysis LSI MYC SpectrumOrange FISH Probe Kit (CE)	20 µL	03N87-020	00884999006256
Vysis LSI RUNX1/RUNX1T1 DF FISH Probe Kit (CE)	20 µL	08L70-020	00884999031609
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 9</b>			
Vysis TelVysion 9p SpectrumGreen (ASR)	5 µL	05J03-009	00884999009967
Vysis TelVysion 9q SpectrumOrange (ASR)	5 µL	05J04-009	00884999010321
UroVysion Bladder Cancer Kit (CE)	20 Assays	02J27-020	00884999002135
UroVysion Bladder Cancer Kit (CE)	100 Assays	02J27-099	00884999002197
UroVysion Bladder Cancer Kit (Japan Only) (IVD)	20 Assays	02J27-021	00884999048461
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036
Vysis CDKN2A / CEP 9 FISH Probe Kit (CE)	20 µL	04N61-020	00884999009295
Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes (ASR)	20 µL	05J51-001	00884999012004
Vysis CEP 9 SpectrumAqua Probe (ASR)	20 µL	06J54-009	00884999021747
Vysis CEP 9 SpectrumGreen Probe (ASR)	20 µL	06J37-009	00884999019973
Vysis CEP 9 SpectrumOrange Probe (ASR)	20 µL	06J36-009	00884999019744
Vysis LSI 9q34 SpectrumAqua FISH Probe Kit (CE)	20 µL	05N53-020	00884999015012
Vysis LSI 9q34 SpectrumAqua Probe (ASR)	20 µL	05J79-011	00884999012530
Vysis LSI BCR, ABL Dual Color, Single Fusion Translocation Probe Kit (CE)	20 µL	08L56-050	00884999031463
Vysis LSI BCR, ABL ES Dual Color Translocation Probe Kit (CE)	20 µL	08L55-020	00884999031456
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	05J82-001	00884999012592
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	50 µL	05J82-010	00884999012615

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 9</b>			
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	20 µL	08L10-001	00884999031166
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	50 µL	08L10-002	00884999031173
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe (ASR)	20 µL	05J77-001	00884999012462
Vysis LSI CDKN2A SpectrumOrange Probe (ASR)	20 µL	05J51-003	00884999043664
Vysis LSI CDKN2A SpectrumOrange/CEP 9 SpectrumGreen Probes (ASR)	20 µL	05J51-001	00884999012004
Vysis LSI D5S23, D5S721/CEP 9/CEP 15 FISH Probe Kit (CE)	20 µL	05N35-020	00884999014886
Vysis LSI DEK/NUP214 Dual Color, Dual Fusion Translocation FISH Probe Kit (RUO)	20 µL	09N24-060	00884999046627
Vysis LSI NUP214 SpectrumOrange Probe (ASR)	20 µL	09N25-020	00884999046634
Vysis LSI p16 (9p21) SpectrumRed Probe (ASR)	20 Assays	02N21-020	00884999002722
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 10</b>			
Vysis TelVysion 10p SpectrumGreen (ASR)	5 µL	05J03-010	00884999009974
Vysis TelVysion 10q SpectrumOrange (ASR)	5 µL	05J04-010	00884999010338
Vysis 10q11 RET Break-Apart FISH Probe Kit (RUO)	20 µL	08N31-060	00884999038097
Vysis 10q26 FGFR2 Break Apart FISH Probe Kit (RUO)	20 µL	09N23-060	00884999046092
Vysis 10q26 FGFR2 SpectrumOrange / CEP 10 SpectrumGreen FISH Probe Kit (RUO)	20 µL	08N42-060	00884999042582
Vysis CEP 10 SpectrumAqua Probe (ASR)	20 µL	06J54-010	00884999021754
Vysis CEP 10 SpectrumGreen Probe (ASR)	20 µL	06J37-010	00884999019980
Vysis CEP 10 SpectrumOrange Probe (ASR)	20 µL	06J36-010	00884999019751
Vysis LSI FGFR2 SpectrumOrange Probe (ASR)	20 µL	08N42-020	00884999042575
Vysis LSI PTEN SpectrumGold Probe (ASR)	20 µL	07N73-020	00884999036451
Vysis LSI PTEN SpectrumOrange Probe (ASR)	20 µL	07J74-003	00884999043268
Vysis LSI PTEN/CEP 10 FISH Probe Kit (CE)	20 µL	04N62-020	00884999009301
Vysis LSI RET (Cen) SpectrumGreen Probe (ASR)	20 µL	08N31-040	00884999038080
Vysis LSI RET (Tel) SpectrumOrange Probe (ASR)	20 µL	08N31-030	00884999038073
Vysis LSI RET (Tel) SpectrumRed Probe (ASR)	20 µL	08N31-020	00884999038066

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 10</b>			
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
<b>CHROMOSOME 11</b>			
Vysis TelVysion 11p SpectrumGreen (ASR)	5 µL	05J03-011	00884999009981
Vysis TelVysion 11q SpectrumOrange (ASR)	5 µL	05J04-011	00884999010345
Vysis CEP 11 (D11Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-011	00884999021761
Vysis CEP 11 (D11Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-011	00884999019997
Vysis CEP 11 (D11Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-011	00884999019768
Vysis CLL FISH Probe Kit (CE)	20 Assays	04N02-022	00884999019768
Vysis CLL FISH Probe Kit (US)	20 Assays	04N02-021	00884999042780
Vysis IGH/CCND1 XT DF FISH Probe Kit (CE)	20 µL	05N33-020	00884999014862
Vysis LSI ATM (11q22.3) SpectrumOrange Probe (ASR)	20 µL	05J64-011	00884999012233
Vysis LSI ATM (11q22.3) SpectrumOrange Probe (CE)	20 µL	01N33-020	00884999000759
Vysis LSI ATM SpectrumOrange/CEP 11 SpectrumGreen Probes (ASR)	20 µL	01N18-020	00884999000537
Vysis LSI ATM/CEP 11 FISH Probe Kit (CE)	20 µL	05N55-020	00884999015043
Vysis LSI BIRC3/MALT1 DF FISH Probe Kit (CE)	20 µL	05N50-020	00884999014985
Vysis LSI CCND1 Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N38-020	00884999014909
Vysis LSI CCND1 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J96-001	00884999013445
Vysis LSI CCND1 SpectrumOrange/CEP 11 SpectrumGreen Probes (ASR)	20 µL	05J41-001	00884999011755
Vysis LSI CCND1/CEP 11 FISH Probe Kit (CE)	20 µL	03N88-020	00884999006263
Vysis LSI IGH/CCND1 DF FISH Probe Kit (CE)	20 µL	08L58-020	00884999031487
Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes (ASR)	20 µL	05J72-001	00884999012370
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L57-020	00884999031470
Vysis LSI MLL Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J90-001	00884999012837
Vysis Melanoma FISH Probe Kit (CE)	200 µL	01N89-020	00884999001312
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 12</b>			
Vysis TelVysion 12p SpectrumGreen (ASR)	5 µL	05J03-012	00884999009998
Vysis TelVysion 12q SpectrumOrange (ASR)	5 µL	05J04-012	00884999010352
Vysis CEP 12 (D12Z3) SpectrumGreen Probe (ASR)	20 µL	06J37-012	00884999020009
Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-012	00884999027084
Vysis CEP 12 SpectrumOrange Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-012	00884999027015
Vysis CLL FISH Probe Kit (CE)	20 Assays	04N02-022	00884999045101
Vysis CLL FISH Probe Kit (US)	20 Assays	04N02-021	00884999042780
Vysis DDIT3 Break Apart FISH Probe Kit (CE)	20 µL	03N57-020	00884999005778
Vysis ETV6 Break Apart FISH Probe Kit (CE)	20 µL	04N09-020	00884999007932
Vysis ETV6/RUNX1 DF FISH Probe Kit (CE)	10 µL	05N96-010	00884999015487
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Single Fusion Probe (ASR)	20 µL	05J62-001	00884999012202
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Translocation Probe Set (CE)	20 µL	08L66-020	00884999031562
Vysis LSI MDM2 SpectrumOrange Probe (ASR)	20 µL	01N15-020	00884999000513
Vysis MDM2/CEP 12 FISH Probe Kit (CE)	10 µL	01N15-010	00884999035362
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
<b>CHROMOSOME 13</b>			
AneuVysion Multicolor DNA Probe Kit (CE)	10 Assays	05J38-010	00884999011694
AneuVysion Multicolor DNA Probe Kit (CE)	30 Assays	05J38-030	00884999011700
AneuVysion Multicolor DNA Probe Kit (CE)	50 Assays	05J38-050	00884999011717
Vysis TelVysion 13q SpectrumOrange (ASR)	5 µL	05J04-013	00884999010369
Vysis CLL FISH Probe Kit (CE)	20 Assays	04N02-022	00884999045101
Vysis CLL FISH Probe Kit (US)	20 Assays	04N02-021	00884999042780
Vysis FOXO1 Break Apart FISH Probe Kit (CE)	20 µL	03N60-020	00884999005808
Vysis LSI (13q34) SpectrumGreen Probe (ASR)	20 µL	05J80-011	00884999012561
Vysis LSI 13 (13q14) SpectrumGreen Probe (ASR)	20 µL	05J14-028	00884999011199
Vysis LSI 13 (13q14) SpectrumGreen Probe (CE)	20 µL	08L67-020	00884999031579

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 13</b>			
Vysis LSI 13 (RB1) 13q14 SpectrumOrange Probe (ASR)	20 µL	05J15-011	00884999011212
Vysis LSI 13 RB1 (13q14) SpectrumOrange Probe (CE)	20 µL	08L65-020	00884999031555
Vysis LSI 13q34 SpectrumGreen FISH Probe Kit (CE)	20 µL	05N34-020	00884999014879
Vysis LSI D13S25 (13q14.3) SpectrumOrange Probe (CE)	20 µL	01N37-020	00884999000797
Vysis LSI D13S319 (13q14.3) SpectrumOrange (CE)	20 µL	01N34-020	00884999000766
Vysis LSI D13S319 (13q14.3) SpectrumOrange Probe (ASR)	20 µL	05J86-011	00884999012769
Vysis LSI D13s319/13q34 FISH Probe Kit (CE)	20 µL	05N37-020	00884999014893
Vysis LSI FOXO1 (Cen) SpectrumGreen Probe (ASR)	20 µL	05J48-014	00884999041516
Vysis LSI FOXO1 (Tel) SpectrumOrange Probe (ASR)	20 µL	05J48-013	00884999041509
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 14</b>			
Vysis TelVysion 14q SpectrumOrange (ASR)	5 µL	05J04-014	00884999010376
Vysis IGH/CCND1 XT DF FISH Probe Kit (CE)	20 µL	05N33-020	00884999014862
Vysis LSI IGH/FGFR3 DF FISH Probe Kit (CE)	20 µL	01N69-020	00884999000834
Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe (CE)	20 µL	08L63-020	00884999031531
Vysis LSI IGH Dual Color, Break Apart Rearrangement Probe (ASR)	20 µL	05J73-001	00884999012394
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes (ASR)	20 µL	05J71-001	00884999012356
Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe Set (CE)	20 µL	08L60-020	00884999031500
Vysis LSI IGH/CCND1 DF FISH Probe Kit (CE)	20 µL	08L58-020	00884999031487
Vysis LSI IGH/CCND1 XT Dual Color Dual Fusion Probes (ASR)	20 µL	05J72-001	00884999012370
Vysis LSI IGH/FGFR3 Dual Color Dual Fusion Probes (ASR)	20 µL	05J74-001	00884999012417
Vysis LSI IGH/MAF DF FISH Probe Kit (CE)	20 µL	05N32-020	00884999014855
Vysis LSI IGH/MAF Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-004	00884999012691
Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-001	00884999012660
Vysis LSI IGH/MYC/CEP 8 Tri-Color Dual Fusion Probe Kit (CE)	20 µL	04N10-020	00884999007949
Vysis LSI TRA/D Dual Color Break Apart Rearrangement FISH Probe Kit (CE)	20 µL	05N41-020	00884999014923

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 14</b>			
Vysis LSI TRA/D Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	01N78-020	00884999001015
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 15</b>			
Vysis TelVysion 15q SpectrumOrange (ASR)	5 µL	05J04-015	00884999010383
Vysis CEP 15 (D15Z1) SpectrumAqua Probe (ASR)	20 µL	06J54-015	00884999021785
Vysis CEP 15 (D15Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-015	00884999020023
Vysis CEP 15 (D15Z4) SpectrumOrange Probe (ASR)	20 µL	06J36-015	00884999019799
Vysis LSI D5S23, D5S721/CEP 9/CEP 15 FISH Probe Kit (CE)	20 µL	05N35-020	00884999014886
Vysis LSI PML/RARA Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	05J70-001	00884999012325
Vysis LSI PML/RARA Dual Color, Dual Fusion Translocation Probe (CE)	20 µL	01N36-020	00884999000780
Vysis PML/RARA Dual Color, Single Fusion FISH Probe Kit (CE)	20 µL	05N45-020	00884999014947
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257
Vysis Prader-Willi/Angelman Region LSI D15S11 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J19-014	00884999011274
Vysis Prader-Willi/Angelman Region LSI GABRB3 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J22-015	00884999011366
Vysis Prader-Willi/Angelman Region LSI SNRPN SpectrumOrange/CEP 15 SpectrumAqua/PML SpectrumGreen Probes (ASR)	10 µL	01N12-010	00884999000476
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257
Vysis Prader-Willi/Angelman Region LSI D15S11 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J19-014	00884999011274
Vysis Prader-Willi/Angelman Region LSI GABRB3 SpectrumOrange/CEP 15 SpectrumGreen Probes (ASR)	20 µL	05J22-015	00884999011366
Vysis LSI SNRPN SpectrumOrange/CEP 15 SpectrumAqua/PML SpectrumGreen Probes (ASR)	10 µL	01N12-010	00884999000476
Vysis LSI D15S10 SO/CEP 15 SA/PML SGn Probes (ASR)	10 µL	01N13-010	00884999000483
Vysis Prader-Willi/Angelman Region Probe - LSI D15S10 (SO)/Vysis CEP 15 (D15Z1) (SA)/PML (SG) (CE)	10 µL	05N58-010	00884999015067
Vysis Prader-Willi/Angelman Region SNRPN/CEP 15/PML FISH Probe Kit (CE)	10 µL	06N27-010	00884999025608
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999025608
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425

PROBES BY CHROMOSOME

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<b>CHROMOSOME 16</b>			
Vysis TelVysion 16p SpectrumGreen (ASR)	5 µL	05J03-016	00884999010031
Vysis TelVysion 16q SpectrumOrange (ASR)	5 µL	05J04-016	00884999010390
Vysis LSI CFBF Break Apart FISH Probe Kit (CE)	20 µL	05N44-020	00884999014930
Vysis CEP 16 (D16Z3) SpectrumAqua Probe (ASR)	20 µL	05J09-016	00884999010970
Vysis CEP 16 (D16Z3) SpectrumGreen Probe (ASR)	20 µL	05J10-016	00884999011052
Vysis CEP 16 (D16Z3) SpectrumOrange Probe (ASR)	20 µL	05J08-016	00884999010871
Vysis LSI CFBF Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J65-001	00884999012240
Vysis LSI FUS Break Apart FISH Probe Kit (CE)	20 µL	03N58-020	00884999005785
Vysis LSI IGH/MAF DF FISH Probe Kit (CE)	20 µL	05N32-020	00884999014855
Vysis LSI IGH/MAF Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-004	00884999012691
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 17</b>			
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (ASR)	20 µL	05J52-011	00884999012035
PathVysion HER-2 DNA Probe Kit II (CE)	100 Assays	06N46-036	00884999035881
PathVysion HER-2 DNA Probe Kit II (CE)	20 Assays	06N46-030	00884999035867
PathVysion HER-2 DNA Probe Kit II (CE)	50 Assays	06N46-035	00884999035874
Vysis TelVysion 17p SpectrumGreen (ASR)	5 µL	05J03-017	00884999010048
Vysis TelVysion 17q SpectrumOrange (ASR)	5 µL	05J04-017	00884999010406
UroVysion Bladder Cancer Kit (CE)	100 Assays	02J27-099	00884999002197
UroVysion Bladder Cancer Kit (CE)	20 Assays	02J27-020	00884999002135
UroVysion Bladder Cancer Kit (Japan Only) (IVD)	20 Assays	02J27-021	00884999048461
Vysis CEP 17 (D17Z1) SpectrumGreen Probe (ASR)	20 µL	06J37-017	00884999020047
Vysis CEP 17 (D17Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-017	00884999019812
Vysis CEP17 SpectrumAqua (ASR)	20 µL	06J38-017	00884999020139
Vysis CLL FISH Probe Kit (US)	20 Assays	04N02-021	00884999042780
Vysis CLL FISH Probe Kit (CE)	20 Assays	04N02-022	00884999045101



PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 17</b>			
Vysis Esophageal FISH Probe Kit (CE)	20 µL	04N19-020	00884999008021
Vysis LSI ERBB2 (17q12) SpectrumGreen Probe (ASR)	20 µL	02N20-020	00884999002715
Vysis LSI MAPT 17q21 SpectrumGreen Probe (ASR)	10 µL	02N19-010	00884999002708
Vysis LSI PML/RARA Dual Color, Dual Fusion Probe (ASR)	20 µL	05J70-001	00884999012325
Vysis LSI PML/RARA Dual Color, Dual Fusion Translocation Probe Kit (CE)	20 µL	01N36-020	00884999000780
Vysis LSI RARA Break Apart FISH Probe Kit (CE)	20 µL	05N46-020	00884999014954
Vysis LSI TOP2A / HER-2 / CEP 17 FISH Probe Kit (CE)	200 µL	03N90-020	00884999006287
Vysis LSI TOP2A/CEP 17 FISH Probe Kit (CE)	200 µL	03N89-020	00884999006270
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (CE)	20 µL	08L64-020	00884999031548
Vysis LSI TP53 (17p13.1) SpectrumOrange Probe (ASR)	20 µL	05J52-011	00884999012035
Vysis LSI TP53/CEP 17 FISH Probe Kit (CE)	20 µL	05N56-020	00884999002746
Vysis Miller-Dieker Region/Isolated Lissencephaly LSI LIS1 SpectrumOrange/ RARA SpectrumGreen Probes (ASR)	20 µL	05J88-001	00884999012790
Vysis PML/RARA DC Single Fusion FISH Probe Kit (CE)	20 µL	05N45-020	00884999014947
Vysis LSI PML/RARA Dual Color Single Fusion Probes (ASR)	20 µL	05J66-001	00884999012257
Vysis Smith-Magenis Region LSI SMS SpectrumOrange/RARA SpectrumGreen Probes (ASR)	20 µL	05J25-003	00884999011427
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 18</b>			
AneuVysion Multicolor DNA Probe Kit (CE)	50 Assays	05J38-050	00884999011717
AneuVysion Multicolor DNA Probe Kit (CE)	10 Assays	05J38-010	00884999011694
AneuVysion Multicolor DNA Probe Kit (CE)	30 Assays	05J38-030	00884999011700
CEP 18 SpectrumAqua (ASR)	Contact Us	Contact Us	Contact Us
CEP 18 SpectrumAqua (CE)	Contact Us	Contact Us	Contact Us
Vysis TelVysion 18p SpectrumGreen (ASR)	5 µL	05J03-018	00884999010055
Vysis TelVysion 18q SpectrumOrange (ASR)	5 µL	05J04-018	00884999010413
Vysis CEP 18 (D18Z1) SpectrumAqua Probe (ASR)	20 µL	05J09-018	00884999010987
Vysis CEP 18 (D18Z1) SpectrumGreen Probe (ASR)	20 µL	05J10-018	00884999011069

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 18</b>			
Vysis CEP 18 (D18Z1) SpectrumOrange Probe (ASR)	20 µL	05J08-018	00884999010888
Vysis LSI BCL2 Break Apart FISH Probe Kit (CE)	20 µL	05N51-020	00884999014992
Vysis LSI BIRC3/MALT1 DF FISH Probe Kit (CE)	20 µL	05N50-020	00884999014985
Vysis LSI IGH/BCL2 Dual Color Dual Fusion Probes (ASR)	20 µL	05J71-001	00884999012356
Vysis LSI IGH/BCL2 Dual Color, Dual Fusion Translocation Probe Set (CE)	20 µL	08L60-020	00884999031500
Vysis LSI IGH/MALT1 Dual Color Dual Fusion Probes (ASR)	20 µL	05J84-001	00884999012660
Vysis LSI MALT1 Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J87-001	00884999012783
Vysis LSI SS18 (18q11.2) Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	05J84-006	00884999012714
Vysis LSI SS18 (Cen) SpectrumGreen Probe (ASR)	20 µL	05J84-010	00884999043251
Vysis LSI SS18 (Tel) SpectrumOrange Probe (ASR)	20 µL	05J84-009	00884999043244
Vysis LSI SS18 Break Apart FISH Probe Kit (CE)	20 µL	03N61-020	00884999005815
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 19</b>			
Vysis TelVysion 19p SpectrumGreen (ASR)	5 µL	05J03-019	00884999010062
Vysis TelVysion 19q SpectrumOrange (ASR)	5 µL	05J04-019	00884999010420
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (ASR)	200 µL	07J73-001	00884999029187
Vysis LSI 1p36 SpectrumOrange/1q25 SpectrumGreen Probes and Vysis LSI 19q13 SpectrumOrange/19p13 SpectrumGreen Probes (CE)	2 vials, 200 µl each	04N60-020	00884999009288
Vysis LSI TCF3/PBX1 Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	01N24-020	00884999000605
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME 20</b>			
Vysis TelVysion 20p SpectrumGreen (ASR)	5 µL	05J03-020	00884999010079
Vysis TelVysion 20q SpectrumOrange (ASR)	5 µL	05J04-020	00884999010437
Vysis CEP 20 (D20Z1) SpectrumOrange Probe (ASR)	20 µL	06J36-020	00884999019836

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<b>CHROMOSOME 20</b>			
Vysis D20S108 FISH Probe Kit (CE)	20 µL	05N02-020	00884999014329
Vysis Esophageal FISH Probe Kit (CE)	20 µL	04N19-020	00884999008021
Vysis LSI AURKA SpectrumGold FISH Probe Kit (CE)	20 µL	05N93-020	00884999015470
Vysis LSI ZNF217 SpectrumGold Probe (ASR)	20 µL	02N23-020	00884999002746
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ZNF217 SpectrumGold FISH Probe Kit (CE)	20 µL	05N15-020	00884999014602
Vysis ZNF217 SpectrumOrange FISH Probe Kit (CE)	20 µL	03N91-020	00884999006294
Vysis ZNF217 SpectrumRed FISH Probe Kit (CE)	10 µL	05N16-010	00884999014619
<b>CHROMOSOME 21</b>			
AneUVysion Multicolor DNA Probe Kit (CE)	10 Assays	05J38-010	00884999011694
AneUVysion Multicolor DNA Probe Kit (CE)	30 Assays	05J38-030	00884999011700
AneUVysion Multicolor DNA Probe Kit (CE)	50 Assays	05J38-050	00884999011717
Vysis TelVysion 21q SpectrumOrange (ASR)	5 µL	05J04-021	00884999010444
Vysis ETV6/RUNX1 DF FISH Probe Kit (CE)	10 µL	05N96-010	00884999015487
Vysis LSI 21 SpectrumOrange Probe (CE)	20 µL	08L54-020	00884999031449
Vysis LSI 21 SpectrumOrange Probe (ASR)	20 µL	05J13-012	00884999011175
Vysis LSI ERG (Cen) SpectrumRed Probe (ASR)	20 µL	07N69-020	00884999036475
Vysis LSI ERG (Tel) SpectrumGreen Probe (ASR)	20 µL	07N70-020	00884999036468
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Probe Set (ASR)	20 µL	05J62-001	00884999012202
Vysis LSI ETV6 (TEL)/RUNX1 (AML1) ES Dual Color Single Fusion Probe (CE)	20 µL	08L66-020	00884999031562
Vysis LSI RUNX1/RUNX1T1 DF FISH Probe Kit (CE)	20 µL	08L70-020	00884999031609
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
<b>CHROMOSOME 22</b>			
Vysis TelVysion 22q SpectrumOrange (ASR)	5 µL	05J04-022	00884999010451

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME 22</b>			
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	20 µL	05N54-020	00884999015029
Vysis BCR/ABL1/ASS1 Tri-Color DF FISH Probe (CE)	50 µL	05N54-050	00884999015036
Vysis DiGeorge Region LSI N25 SpectrumOrange/LSI ARSA SpectrumGreen Probes (ASR)	10 µL	05N24-010	00884999014770
Vysis DiGeorge Region LSI TUPLE 1 (HIRA) SpectrumOrange/LSI ARSA SpectrumGreen Probe Set (CE)	20 µL	08L59-020	00884999031494
Vysis DiGeorge Region LSI N25 SO/ARSA SGN Probes (ASR)	20 µL	05J21-028	00884999011342
Vysis LSI TUPLE1 SpectrumOrange/TelVysion 22q SpectrumGreen Probes (ASR)	10 µL	01N14-010	00884999000490
Vysis LSI 22 (BCR) SpectrumGreen Probe (ASR)	20 µL	05J17-024	00884999011236
Vysis LSI BCR, ABL Dual Color, Single Fusion Translocation Probe Kit (CE)	20 µL	08L56-050	00884999031463
Vysis LSI BCR, ABL ES Dual Color Translocation Probe Kit (CE)	20 µL	08L55-020	00884999031456
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	20 µL	05J82-001	00884999012592
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe (ASR)	50 µL	05J82-010	00884999012615
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	20 µL	08L10-001	00884999031166
Vysis LSI BCR/ABL Dual Color, Dual Fusion Translocation Probe Kit (CE)	50 µL	08L10-002	00884999031173
Vysis LSI BCR/ABL Dual Color, Single Fusion Probe (ASR)	20 µL	05J77-001	00884999031173
Vysis LSI EWSR1 (22q12) Dual Color Break Apart Rearrangement Probe (ASR)	20 µL	07J71-001	00884999029125
Vysis LSI EWSR1 Break Apart FISH Probe Kit (CE)	20 µL	03N59-020	00884999005792
Vysis MultiVysion PB Multi-color FISH Probe Kit (CE)	60 µL	08L62-020	00884999031524
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME X</b>			
AneuVysion Multicolor DNA Probe Kit (CE)	50 Assays	05J38-050	00884999011717
AneuVysion Multicolor DNA Probe Kit (CE)	10 Assays	05J38-010	00884999011694
AneuVysion Multicolor DNA Probe Kit (CE)	30 Assays	05J38-030	00884999011700
Vysis CEP X (DXZ1) SpectrumAqua Probe (ASR)	20 µL	05J09-023	00884999010994
Vysis CEP X (DXZ1) SpectrumGreen Probe (ASR)	20 µL	05J10-023	00884999011076
Vysis CEP X (DXZ1) SpectrumOrange Probe (ASR)	20 µL	05J08-023	00884999010895
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-050	00884999027091

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME X</b>			
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-050	00884999027022
Vysis Kallmann Region LSI KAL SpectrumOrange/CEP X SpectrumGreen Probes (ASR)	20 µL	05J23-070	00884999011380
Vysis LSI Androgen Receptor Gene (Xq12) SpectrumOrange Probe (ASR)	20 µL	05J44-011	00884999011793
Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes (ASR)	20 µL	05J27-007	00884999011472
Vysis LSI SRY/CEP X FISH Probe Kit (CE)	20 µL	06N29-020	00884999025622
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593
Vysis Steroid Sulfatase Deficiency LSI STS SpectrumOrange/CEP X SpectrumGreen Probes (ASR)	20 µL	05J28-004	00884999011519
Vysis TelVysion Xp/Yp SpectrumGreen Probe (ASR)	5 µL	05J03-023	00884999010109
Vysis TelVysion Xq/Yq SpectrumOrange Probe (ASR)	5 µL	05J04-023	00884999010468
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425
<b>CHROMOSOME Y</b>			
AneuVysion Multicolor DNA Probe Kit (CE)	10 Assays	05J38-010	00884999011694
AneuVysion Multicolor DNA Probe Kit (CE)	30 Assays	05J38-030	00884999011700
AneuVysion Multicolor DNA Probe Kit (CE)	50 Assays	05J38-050	00884999011717
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit (CE)	20 Assays	07J22-050	00884999027091
Vysis CEP X SpectrumOrange/Y SpectrumGreen Direct Labeled Fluorescent DNA Probe Kit (without control slides) (CE)	20 Assays	07J20-050	00884999027022
Vysis CEP Y (DYZ1) SpectrumAqua Probe (ASR)	20 µL	05J09-024	00884999011007
Vysis CEP Y (DYZ1) SpectrumGreen Probe (ASR)	20 µL	05J10-024	00884999011083
Vysis CEP Y (DYZ1) SpectrumOrange Probe (ASR)	20 µL	05J08-024	00884999010901
Vysis CEP Y (DYZ3) SpectrumOrange Probe (ASR)	20 µL	05J08-025	00884999010918
Vysis LSI SRY Spectrum Orange/CEP X Spectrum Green Probes (ASR)	20 µL	05J27-007	00884999011472
Vysis SRY Probe LSI SRY SpectrumOrange (ASR)	20 µL	05J27-079	00884999011496
Vysis LSI SRY/CEP X FISH Probe Kit (CE)	10 µL	06N29-020	00884999025622
Vysis MultiVysion PGT Multi-color Probe (CE)	30 µL	08L69-010	00884999031593

PROBES BY CHROMOSOME

PRODUCT	QUANTITY	ORDER #	GTIN
<b>CHROMOSOME Y</b>			
Vysis TelVysion Xp/Yp SpectrumGreen Probe (ASR)	5 µL	05J03-023	00884999010109
Vysis TelVysion Xq/Yq SpectrumOrange Probe (ASR)	5 µL	05J04-023	00884999010468
Vysis ToTelVysion Multi-Color FISH Probe (ASR)	30 µL	05J05-001	00884999010703
Vysis ToTelVysion Multi-Color FISH Probe (CE)	30 µL	08L52-001	00884999031425



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