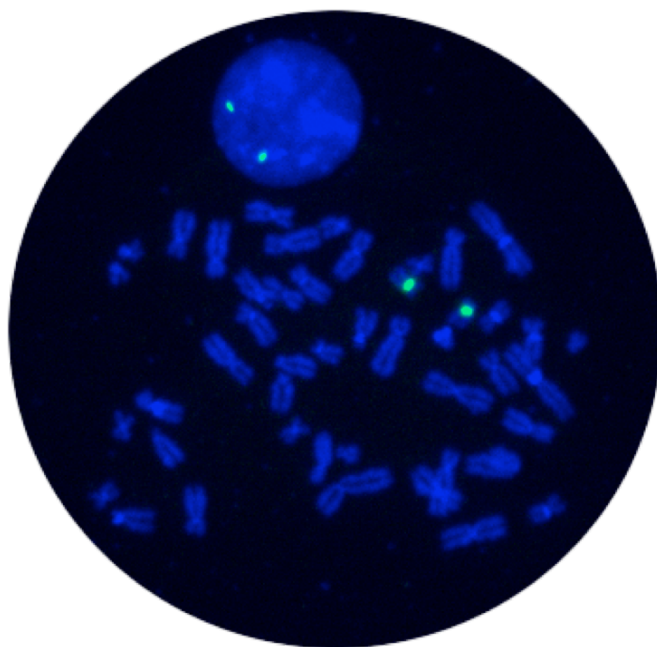


LIFE TECH

Life Technologies™

Your Molecular & Cell Technology Partner

CYTO^{TEST}®



2016 CytoTest Product & Service Catalog

PREMIUM FISH
for Quality of Lives

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PREFACE

Product Notice

Certain products in this catalog are for research use only and are not intended or approved for clinical or diagnostic uses. Please contact our sales representatives for detailed information.

Please visit our website for the latest information on the probe selection.

www.cytotest.com

Contacts

If you have any questions about CytoTest's products, please contact us at

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PRODUCT INFORMATION

Product Nomenclature

ACC	–	Accessories
APP	–	Chromosome Arm Painting Probes
CCP	–	Chromosome Counting Probes
LSP	–	Locus Specific Probes
PAC	–	Package (also known as Kit)
STP	–	Subtelomere Probes
TPP	–	Chromosome Terminal Band Painting Probes
WPP	–	Whole Chromosome Painting Probes

CytoTest Fluorophores

CytoTest FISH probes are manufactured with genomic DNA obtained either from microdissected human chromosomes or cloned DNA fragments, depending on the probe type. The probes are labeled with the following fluorophores. The maximum peaks of excitation and emission wavelength for each dye and for DAPI (Dihydrochloride 4',6'-Diamidino-2-phenylindole) counterstain are listed below. For optimal results, microscope filter sets must be selected which are compatible with the fluorescence of the probes.

Fluorophore	Excitation Peak (nm)	Emission Peak (nm)	Compatibility with Other Dyes
CytoRed™	583	605	SpectrumRed Propidium iodide (543-614)
CytoOrange™	551	575	SpectrumOrange
CytoGold™	523	549	SpectrumGold
CytoGreen™	495	518	SpectrumGreen Fluorescein isothiocyanate (FITC)
CytoAqua™	422	471	SpectrumAqua
CytoBlue™	402	421	SpectrumBlue (400-450)
DAPI	358	461	

PRODUCTS

Oncology

<u>Product Name</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
ABL1 Break Apart FISH Probe Kit	LSP ABL1 5' CytoOrange LSP ABL1 3' CytoGreen	9q34.12	CT-PAC115-10-OG
ABL2/CCP1 FISH Probe Kit	LSP ABL2 CytoOrange CCP1 CytoGreen	1q25.2 1p11-q11	CT-PAC039-10-OG
AFF1 Break Apart FISH Probe Kit	LSP AFF1 5' CytoGreen LSP AFF1 3' CytoOrange	4q21.3	CT-PAC330-10-GO
ALK Break Apart FISH Probe Kit	LSP ALK 5' CytoGreen LSP ALK 3' CytoOrange	2p23.2	CT-PAC009-10-GO
AR/CCPX FISH Probe Kit	LSP AR CytoOrange CCPX CytoGreen	Xq12 Xp11-q11	CT-PAC116-10-OG
ASPCR1-TFE3 Fusion/Translocation FISH Probe Kit	LSP ASPSCR1 5' CytoGreen LSP TFE3 3' CytoOrange	17q25.3 Xp11.23	CT-PAC061-10-GO
ASS1/CCP9 FISH Probe Kit	LSP ASS1 CytoOrange CCP9 CytoGreen	9q34.11 9p11-q11	CT-PAC111-10-OG
ASS1/SMAD6 FISH Probe Kit	LSP ASS1 CytoOrange LSP SMAD6 CytoGreen	9q34.11 15q22.31	CT-PAC171-10-OG
ATM/CCP11 FISH Probe Kit	LSP ATM CytoOrange CCP11 CytoGreen	11q22.3 11p11-q11	CT-PAC352-10-OG
ATM/GLI1 FISH Probe Kit	LSP ATM CytoOrange LSP GLI1 CytoGreen	11q22.3 12q13.3	CT-PAC117-10-OG
ATRX/CCPX FISH Probe Kit	LSP ATRX CytoOrange CCPX CytoGreen	Xq21.1 Xp11-q11	CT-PAC118-10-OG
BCL2 Break Apart FISH Probe Kit	LSP BCL2 5' CytoOrange LSP BCL2 3' CytoGreen	18q21.33	CT-PAC206-10-OG
BCL2L1/CCP20 FISH Probe Kit	LSP BCL2L1 CytoOrange CCP20 CytoGreen	20q11.21 20p11-q11	CT-PAC119-10-OG
BCL3 Break Apart FISH Probe Kit	LSP BCL3 5' CytoOrange LSP BCL3 3' CytoGreen	19q13.32	CT-PAC186-10-OG
BCL6 Break Apart FISH Probe Kit	LSP BCL6 5' CytoOrange LSP BCL6 3' CytoGreen	3q27.3	CT-PAC207-10-OG
BCR-ABL1 Fusion/Translocation FISH Probe Kit	LSP BCR CytoGreen LSP ABL1 CytoOrange	22q11.23 9q34.12	CT-PAC302-10-GO
BCR-ABL1/ASS1 Tri-color Fusion/Translocation FISH Probe Kit	LSP BCR CytoGreen LSP ABL1 CytoOrange LSP ASS1 CytoAqua	22q11.23 9q34.12 9q34.11	CT-PAC110-10-GOA

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
BIRC3-MALT1 Fusion/Translocation FISH Probe Kit	LSP BIRC3 CytoGreen LSP MALT1 5'-3' CytoOrange	11q22.2 18q21.32	CT-PAC062-10-GO
BRAF Break Apart FISH Probe Kit	LSP BRAF 5' CytoOrange LSP BRAF 3' CytoGreen	7q34	CT-PAC120-10-OG
BRAF/CCP7 FISH Probe Kit	LSP BRAF CytoOrange CCP7 CytoGreen	7q34 7p11-q11	CT-PAC121-10-OG
C19MC/TPM4 FISH Probe Kit	LSP C19MC CytoOrange LSP TPM4 CytoGreen	19q13.42 19p13.12	CT-PAC033-10-OG
CARS Break Apart FISH Probe Kit	LSP CARS 5' CytoOrange LSP CARS 3' CytoGreen	11p15.4	CT-PAC046-10-OG
CARS/CCP11 FISH Probe Kit	LSP CARS CytoOrange CCP11 CytoGreen	11p15.4 11p11-q11	CT-PAC047-10-OG
CBFB Break Apart FISH Probe Kit	LSP CBFB 5' CytoOrange LSP CBFB 3' CytoGreen	16q22.1	CT-PAC328-10-OG
CBFB-MYH11 Fusion/Translocation FISH Probe Kit	LSP CBFB 5'-3' CytoOrange LSP MYH11 5'-3' CytoGreen	16q22.1 16p13.11	CT-PAC306-10-OG
CCDC6-RET Fusion/Translocation FISH Probe Kit (Previously known as RET-PTC1)	LSP CCDC6 CytoGreen LSP RET 5' CytoOrange	10q21.2 10q11.21	CT-PAC079-10-GO
CCND1 Break Apart FISH Probe Kit	LSP CCND1 5' CytoGreen LSP CCND1 3' CytoOrange	11q13.3	CT-PAC209-10-GO
CCND1/CCP11 FISH Probe Kit	LSP CCND1 CytoOrange CCP11 CytoGreen	11q13.3	CT-PAC189-10-OG
CCND3 Break Apart FISH Probe Kit	LSP CCND3 5' CytoOrange LSP CCND3 3' CytoGreen	6p21.1	CT-PAC187-10-OG
CCP13, 18, 21, X, Y FISH Probe Kit	Tube 1: CCP13 CytoGreen CCP21 CytoOrange Tube 2: CCP18 CytoAqua CCPX CytoGreen CCPY CytoOrange	13p11-q11 21p11-q11 18p11-q11 Xp11-q11 Yp11-q11	CT-PAC404-10-GAOGO
CCP13/CCP21 FISH Probe	CCP13 CytoGreen CCP21 CytoOrange	13p11-q11 21p11-q11	CT-PAC212-10-GO
CCP15/CCP16/CCP22 FISH Probe Kit	CCP15 CytoOrange CCP16 CytoGreen CCP22 CytoAqua	15p11-q11 16p11-q11 22p11-q11	CT-PAC405-10-OGA
CCP18/CCPX/CCPY FISH Probe Kit	CCP18 CytoAqua CCPX CytoGreen CCPY CytoOrange	18p11-q11 Xp11-q11 Yp11-q11	CT-PAC214-10-AGO
CCP7/CCP8 FISH Probe Kit	CCP7 CytoOrange CCP8 CytoGreen	7p11-q11 8p11-q11	CT-PAC164-10-OG
CCPX/CCPY FISH Probe Kit	CCPX CytoGreen CCPY CytoOrange	Xp11-q11 Yp11-q11	CT-PAC406-10-GO

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
CD37/ZNF443 FISH Probe Kit	LSP CD37 CytoOrange LSP ZNF443 CytoGreen	19q13.33 19p13.2	CT-PAC122-10-OG
CDK12/CCP17 FISH Probe Kit	LSP CDK12 CytoOrange CCP17 CytoGreen	17q12 17p11-q11	CT-PAC123-10-OG
CDK14/CCP7 FISH Probe Kit	LSP CDK14 CytoOrange CCP7 CytoGreen	7q21.13 7p11-q11	CT-PAC124-10-OG
CDK14/CUX1/CCP7 FISH Probe Kit	LSP CDK14 CytoGreen LSP CUX1 CytoOrange CCP7 CytoAqua	7q21.13 7q22.1 7p11-q11	CT-PAC125-10-GOA
CDK4/CCP12 FISH Probe Kit	LSP CDK4 CytoOrange CCP12 CytoGreen	12q14.1 12p11-q11	CT-PAC048-10-OG
CDKN2A/CCP3, 7, 17 FISH Probe Kit	LSP CDKN2A CytoOrange CCP3 CytoRed CCP7 CytoGreen CCP17 CytoAqua	9p21.3 3p11-q11 7p11-q11 17p11-q11	CT-PAC026-10-ORGA
CDKN2A/CCP9 FISH Probe Kit	LSP CDKN2A CytoOrange CCP9 CytoGreen	9p21.3, 9p11-q11	CT-PAC025-10-OG
CDKN2C/CCP1 FISH Probe Kit	LSP CDKN2C CytoOrange CCP1 CytoGreen	1p32.3, 1p11-q11	CT-PAC064-10-OG
CDKN2C/CKS1B FISH Probe Kit	LSP CDKN2C CytoGreen LSP CKS1B CytoOrange	1p32.3, 1q21.3	CT-PAC126-10-GO
CHD1/D5S23, D5S721 FISH Probe Kit	LSP CHD1 CytoOrange LSP D5S23, D5S721 CytoGreen	5q15, 5p15.2	CT-PAC103-10-OG
CHD5/CCP1 FISH Probe Kit	LSP CHD5 CytoOrange CCP1 CytoGreen	1p36.31, 1p11-q11	CT-PAC049-10-OG
CHD5/S100A10 FISH Probe Kit	LSP CHD5 CytoOrange LSP S100A10 CytoGreen	1p36.31, 1q21.3	CT-PAC168-10-OG
CISD2/CCP4 FISH Probe Kit	LSP CISD2 CytoOrange CCP4 CytoGreen	4q24, 4p11-q11	CT-PAC024-10-OG
CKS1B/CCP1 FISH Probe Kit	LSP CKS1B CytoOrange CCP1 CytoGreen	1q21.3, 1p11-q11	CT-PAC361-10-OG
COL1A1 Break Apart FISH Probe Kit	LSP COL1A1 5' CytoOrange LSP COL1A1 3' CytoGreen	17q21.33	CT-PAC065-10-OG
COL1A1-PDGFB Fusion/Translocation FISH Probe Kit	LSP COL1A1 5' CytoOrange LSP PDGFB 3' CytoGreen	17q21.33, 22q13.1	CT-PAC066-10-OG
CRLF2 Break Apart FISH Probe Kit	LSP CRLF2 5' CytoOrange LSP CRLF2 3' CytoGreen	Xp22.33 (Yp11.32)	CT-PAC114-10-OG
CRLF2/CCPX FISH Probe Kit	LSP CRLF2 CytoOrange CCPX CytoGreen	Xp22.33 (YP11.32) Xp11-q11	CT-PAC252-10-OG
CSF1R/D5S23, D5S721 FISH Probe Kit	LSP CSF1R CytoOrange LSP D5S23, D5S721 CytoGreen	5q32 5p15.2	CT-PAC355-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
CSF1R/EGR1 FISH Probe Kit	LSP CSF1R CytoOrange LSP EGR1 CytoGreen	5q32 5q31.2	CT-PAC127-10-OG
CSF1R/EGR1/TERT FISH Probe Kit	LSP CSF1R CytoOrange LSP EGR1 CytoGreen LSP TERT CytoAqua	5q32 5q31.2 5p15.33	CT-PAC179-10-OGA
CUX1/CCP7 FISH Probe Kit	LSP CUX1 CytoOrange CCP7 CytoGreen	7q22.1 7p11-q11	CT-PAC128-10-OG
CUX1/VIPR2 FISH Probe Kit	LSP CUX1 CytoGreen LSP VIPR2 CytoOrange	7q22.1 7q36.3	CT-PAC162-10-GO
CUX1/VIPR2/CCP7 FISH Probe Kit	LSP CUX1 CytoGreen LSP VIPR2 CytoOrange CCP7 CytoAqua	7q22.1 7q36.3 7p11-q11	CT-PAC163-10-GOA
D13S25/LAMP1 FISH Probe Kit	LSP D13S25 CytoOrange LSP LAMP1 CytoGreen	13q14.3 13q34	CT-PAC359-10-OG
D13S319/LAMP1 FISH Probe Kit	LSP D13S319 CytoOrange LSP LAMP1 CytoGreen	13q14.2 13q34	CT-PAC360-10-OG
D20S108/CCP8 FISH Probe Kit	LSP D20S108 CytoOrange CCP8 CytoGreen	20q12 8p11-q11	CT-PAC356-10-OG
D20S108/CCP9 FISH Probe Kit	LSP D20S108 CytoOrange CCP9 CytoGreen	20q12 9p11-q11	CT-PAC158-10-OG
D22S75/ARSA FISH Probe Kit	LSP D22S75 CytoOrange LSP ARSA CytoGreen	22q11.2 22q13.33	CT-PAC403-10-OG
D7S486/CCP7 FISH Probe Kit	LSP D7S486 CytoOrange CCP7 CytoGreen	7q31.2 7p11-q11	CT-PAC357-10-OG
D7S522/CCP7 FISH Probe Kit	LSP D7S522 CytoOrange CCP7 CytoGreen	7q31.2 7p11-q11	CT-PAC358-10-OG
DCC/CCP18 FISH Probe Kit	LSP DCC CytoOrange CCP18 CytoGreen	18q21.2 18p11-q11	CT-PAC021-10-OG
DDIT3 Break Apart FISH Probe Kit	LSP DDIT3 5' CytoGreen LSP DDIT3 3' CytoOrange	12q13.3	CT-PAC057-10-GO
DDIT3/CCP12 Tri-color Break Apart FISH Probe Kit	LSP DDIT3 5' CytoGreen LSP DDIT3 3' CytoOrange CCP12 CytoAqua	12q13.3 12p11-q11	CT-PAC058-10-GOA
DEK-NUP214 Fusion/Translocation FISH Probe Kit	LSP DEK CytoGreen LSP NUP214 CytoOrange	6p22.3 9q34.13	CT-PAC109-10-GO
DEK/CCP6 FISH Probe Kit	LSP DEK CytoOrange CCP6 CytoGreen	6p22.3 6p11-q11	CT-PAC129-10-OG
DLEU1/TP53 FISH Probe Kit	LSP DLEU1 CytoOrange LSP TP53 CytoGreen	13q14 17p13.1	CT-PAC255-10-OG
DLEU1/ZBTB16 FISH Probe Kit	LSP DLEU1 CytoOrange LSP ZBTB16 CytoGreen	13q14.2 11q23.2	CT-PAC161-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
LSP DSCR8 FISH Probe	LSP DSCR8 CytoOrange	21q22.2	CT-LSP048-10-O
EGFR/CCP7 FISH Probe Kit	LSP EGFR CytoOrange CCP7 CytoGreen	7p11.2 7p11-q11	CT-PAC011-10-OG
EGR1/D5S23, D5S721 FISH Probe Kit	LSP EGR1 CytoOrange LSP D5S23,D5S721 CytoGreen	5q31.2 5p15.2	CT-PAC353-10-OG
EML4-ALK Fusion/Translocation FISH Probe Kit	LSP EML4 CytoGreen LSP ALK 3' CytoOrange	2p21 2p23.2	CT-PAC010-10-GO
EPOR Break Apart FISH Probe Ki	LSP EPOR 5' CytoOrange LSP EPOR 3' CytoGreen	19p13.2	CT-PAC203-10-OG
ERBB2/17p Reflex FISH Probe Kit	LSP ERBB2 CytoOrange LSP 17p Reflex CytoGreen	17q12	CT-PAC050-10-OG
ERBB2/CCP17 FISH Probe Kit	LSP ERBB2 CytoOrange CCP17 CytoGreen	17q12 17p11-q11	CT-PAC001-10-OG
ERBB2/TOP2A/CCP17 FISH Probe Kit	LSP ERBB2 CytoOrange LSP TOP2A CytoGreen CCP17 CytoAqua	17q12 17q21.2 17p11-q11	CT-PAC007-10-OGA
ERBB3/CCP12 FISH Probe Kit	LSP ERBB3 CytoOrange CCP12 CytoGreen	12q13.2 12p11-q11	CT-PAC029-10-OG
ERBB4/CCP2 FISH Probe Kit	LSP ERBB4 CytoOrange CCP2 CytoGreen	2q34 2p11-q11	CT-PAC030-10-OG
ERG Break Apart FISH Probe Kit	LSP ERG 5' CytoGreen LSP ERG 3' CytoOrange	21q22.2	CT-PAC151-10-GO
ETV1 Break Apart FISH Probe Kit	LSP ETV1 5' CytoGreen LSP ETV1 3' CytoOrange	7p21.2	CT-PAC152-10-GO
ETV4 Break Apart FISH Probe Kit	LSP ETV4 5' CytoGreen LSP ETV4 3' CytoOrange	17q21.31	CT-PAC153-10-GO
ETV6 Break Apart FISH Probe Kit	LSP ETV6 5' CytoOrange LSP ETV6 3' CytoGreen	12p13.2	CT-PAC327-10-OG
ETV6-RUNX1 Fusion/Translocation FISH Probe Kit	LSP ETV6 5' CytoOrange LSP RUNX1 CytoGreen	12p13.2 21q22.12	CT-PAC305-10-OG
EWSR1 Break Apart FISH Probe Kit	LSP EWSR1 5' CytoOrange LSP EWSR1 3' CytoGreen	22q12.2	CT-PAC054-10-OG
FGF1 Break Apart FISH Probe Kit	LSP FGF1 5' CytoOrange LSP FGF1 3' CytoGreen	5q31.3	CT-PAC159-10-OG
FGFR1 Break Apart FISH Probe Kit	LSP FGFR1 5' CytoGreen LSP FGFR1 3' CytoOrange	8p11.23	CT-PAC056-10-GO
FGFR1/CCP8 FISH Probe Kit	LSP FGFR1 CytoOrange CCP8 CytoGreen	8p11.23 8p11-q11	CT-PAC130-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
FGFR2/CCP10 FISH Probe Kit	LSP FGFR2 CytoOrange CCP10 CytoGreen	10q26.13 10p11-q11	CT-PAC131-10-OG
FGFR3 Break Apart FISH Probe Kit	LSP FGFR3 5' CytoOrange LSP FGFR3 3' CytoGreen	4p16.3	CT-PAC329-10-OG
FGFR4 Break Apart FISH Probe Kit	LSP FGFR4 5' CytoOrange LSP FGFR4 3' CytoGreen	5q35.2	CT-PAC133-10-OG
FGFR4/D5S23, D5S721 FISH Probe Kit	LSP FGFR4 CytoOrange LSP D5S23,D5S721 CytoGreen	5q35.2 5p15.2	CT-PAC132-10-OG
FHIT/CCP3 FISH Probe Kit	LSP FHIT CytoOrange CCP3 CytoGreen	3p14.2 3p11-q11	CT-PAC016-10-OG
FIP1L1-CHIC2-PDGFRA Tri-color FISH Probe Kit	LSP FIP1L1 CytoGreen LSP CHIC2 CytoOrange LSP PDGFRA 3' CytoAqua	4q12 4q12 4q12	CT-PAC173-10-GOA
FIP1L1/CHIC2 FISH Probe Kit	LSP FIP1L1 CytoGreen LSP CHIC2 CytoOrange	4q12 4q12	CT-PAC172-10-GO
FLCN/CCP17 FISH Probe Kit	LSP FLCN CytoOrange CCP17 CytoGreen	17p11.2 17p11-q11	CT-PAC028-10-OG
FN1-FGFR1 Fusion/Translocation FISH Probe Kit	LSP FN1 5' CytoGreen LSP FGFR1 3' CytoOrange	2q35 8p11.23	CT-PAC084-10-GO
FN1-FGFR1 Tri-color Fusion/Translocation FISH Probe Kit	LSP FN1 5' CytoAqua LSP FGFR1 5' CytoGreen LSP FGFR1 3' CytoOrange	2q35 8p11.23	CT-PAC085-10-AGO
FOXO1 Break Apart FISH Probe Kit	LSP FOXO1 5' CytoOrange LSP FOXO1 3' CytoGreen	13q14.11	CT-PAC045-10-OG
FUS Break Apart FISH Probe Kit	LSP FUS 5' CytoOrange LSP FUS 3' CytoGreen	16p11.2	CT-PAC053-10-OG
FUS-DDIT3 Fusion/Translocation FISH Probe Kit	LSP FUS 5' CytoOrange LSP DDIT3 3' CytoGreen	16p11.2 12q13.3	CT-PAC077-10-OG
GLI1/CCP12 FISH Probe Kit	LSP GLI1 CytoOrange CCP12 CytoGreen	12q13.3 12p11-q11	CT-PAC134-10-OG
GLO1/CCP6 FISH Probe Kit	LSP GLO1 CytoOrange CCP6 CytoGreen	6p21.2 6p11-q11	CT-PAC068-10-OG
GLTSCR1/CCP19 FISH Probe Kit	LSP GLTSCR1 CytoOrange CCP19 CytoGreen	19q13.33 19p11-q11	CT-PAC040-10-OG
IGH Break Apart FISH Probe Kit	LSP IGH 5' CytoOrange LSP IGH 3' CytoGreen	14q32.33	CT-PAC201-10-OG
IGH-BCL2 Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP BCL2 5'-3' CytoOrange	14q32.33, 18q21.33	CT-PAC221-10-GO
IGH-BCL6 Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP BCL6 5'-3' CytoOrange	14q32.33 3q27.3	CT-PAC224-10-GO

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
IGH-CCND1 Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP CCND1 5'-3' CytoOrange	14q32.33 11q13.3	CT-PAC222-10-GO
IGH-EPOR Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP EPOR CytoOrange	14q32.33 19p13.2	CT-PAC301-10-GO
IGH-FGFR3 Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP FGFR3 CytoOrange	14q32.33 4p16.3	CT-PAC309-10-GO
IGH-MAF Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP MAF CytoOrange	14q32.33 16q23.2	CT-PAC310-10-GO
IGH-MAFB Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP MAFB CytoOrange	14q32.33 20q12	CT-PAC311-10-GO
IGH-MYC Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP MYC 5'-3' CytoOrange	14q32.33 8q24.21	CT-PAC223-10-GO
IGH-MYC/CCP8 Tri-color Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP MYC 5'-3' CytoOrange CCP8 CytoAqua	14q32.33 8q24.21 8p11-q11	CT-PAC199-10-GOA
IGH-MYEOV Fusion/Translocation FISH Probe Kit	LSP IGH 5'-3' CytoGreen LSP MYEOV CytoOrange	14q32.33 11q13.3	CT-PAC069-10-GO
IPO11/AHRR FISH Probe Kit	LSP IPO11 CytoOrange LSP AHRR CytoGreen	5q12.1 5p15.33	CT-PAC036-10-OG
KIF5B Break Apart FISH Probe Kit	LSP KIF5B 5' CytoOrange LSP KIF5B 3' CytoGreen	10p11.22	CT-PAC135-10-OG
KIF5B-RET Fusion/Translocation FISH Probe Kit	LSP KIF5B 5' CytoOrange LSP RET 3' CytoGreen	10p11.22 10q11.21	CT-PAC076-10-OG
KIT/CCP4 FISH Probe Kit	LSP KIT CytoOrange CCP4 CytoGreen	4q12 4p11-q11	CT-PAC136-10-OG
KMT2A Break Apart FISH Probe Kit	LSP KMT2A 5' CytoOrange LSP KMT2A 3' CytoGreen	11q23.3	CT-PAC326-10-OG
KMT2A-AFF1 Fusion/Translocation FISH Probe Kit	LSP KMT2A 3' CytoGreen LSP AFF1 3' CytoOrange	11q23.3 4q21.3	CT-PAC307-10-GO
KMT2A/CCP11 FISH Probe Kit	LSP KMT2A CytoOrange CCP11 CytoGreen	11q23.3 11p11-q11	CT-PAC137-10-OG
KRAS/CCP12 FISH Probe Kit	LSP KRAS CytoOrange CCP12 CytoGreen	12p12.1 12p11-q11	CT-PAC138-10-OG
LPL/CCP8 FISH Probe Kit	LSP LPL CytoOrange CCP8 CytoGreen	8p21.3 8p11-q11	CT-PAC139-10-OG
LSAMP/CCP3 FISH Probe Kit	LSP LSAMP CytoOrange CCP3 CytoGreen	3q13.31 3p11-q11	CT-PAC104-10-OG
MALT1 Break Apart FISH Probe Kit	LSP MALT1 5' CytoOrange LSP MALT1 3' CytoGreen	18q21.32	CT-PAC202-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
MCF2L/LAMP1 FISH Probe Kit	LSP MCF2L CytoOrange LSP LAMP1 CytoGreen	13q34 13q34	CT-PAC027-10-OG
MCL1/CCP1 FISH Probe Kit	LSP MCL1 CytoOrange CCP1 CytoGreen	1q21.3 1p11-q11	CT-PAC140-10-OG
MDM2/CCP12 FISH Probe Kit	LSP MDM2 CytoOrange CCP12 CytoGreen	12q15 12p11-q11	CT-PAC019-10-OG
MECOM Break Apart FISH Probe Kit	LSP MECOM 5' CytoGreen LSP MECOM 3' CytoOrange	3q26.2	CT-PAC071-10-GO
MECOM-RUNX1 Fusion/Translocation FISH Probe Kit	LSP MECOM 5'-3' CytoOrange LSP RUNX1 CytoGreen	3q26.2 21q22.12	CT-PAC170-10-OG
MECOM/CCP3 FISH Probe Kit	LSP MECOM CytoOrange CCP3 CytoGreen	3q26.2 3p11-q11	CT-PAC070-10-OG
MET/CCP7 FISH Probe Kit	LSP MET CytoOrange CCP7 CytoGreen	7q31.2 7p11-q11	CT-PAC014-10-OG
MN1 Break Apart FISH Probe Kit	LSP MN1 5' CytoOrange LSP MN1 3' CytoGreen	22q12.1	CT-PAC112-10-OG
MN1-ETV6 Fusion/Translocation FISH Probe Kit	LSP MN1 5' CytoOrange LSP ETV6 3' CytoGreen	22q12.1 12p13.2	CT-PAC113-10-OG
MYB Break Apart FISH Probe Kit	LSP MYB 5' CytoOrange LSP MYB 3' CytoGreen	6q23.3	CT-PAC055-10-OG
MYB-NFIB Fusion/Translocation FISH Probe Kit	LSP MYB 5' CytoOrange LSP NFIB 3' CytoGreen	6q23.3 9p23	CT-PAC083-10-OG
MYB/CCP6 FISH Probe Kit	LSP MYB CytoOrange CCP6 CytoGreen	6q23.3 6p11-q11	CT-PAC018-10-OG
MYC Break Apart FISH Probe Kit	LSP MYC 5' CytoOrange LSP MYC 3' CytoGreen	8q24.21	CT-PAC208-10-OG
MYC/CCP8 FISH Probe Kit	LSP MYC CytoOrange CCP8 CytoGreen	8q24.21 8p11-q11	CT-PAC017-10-OG
MYCN/CCP2 FISH Probe Kit	LSP MYCN CytoOrange CCP2 CytoGreen	2p24.3 2p11-q11	CT-PAC072-10-OG
MYEOV Break Apart FISH Probe Kit	LSP MYEOV 5' CytoOrange LSP MYEOV 3' CytoGreen	11q13.3	CT-PAC141-10-OG
MYEOV/CCP11 FISH Probe Kit	LSP MYEOV CytoOrange CCP11 CytoGreen	11q13.3	CT-PAC142-10-OG
MYH11 Break Apart FISH Probe Kit	LSP MYH11 5' CytoOrange LSP MYH11 3' CytoGreen	16p13.11	CT-PAC211-10-OG
MYH11/CCP16 FISH Probe Kit	LSP MYH11 CytoOrange CCP16 CytoGreen	16p13.11 16p11-q11	CT-PAC254-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
NCOA4-RET Fusion/Translocation FISH Probe Kit (Previously known as RET-PTC3/4)	LSP NCOA4 CytoGreen LSP RET 5' CytoOrange	10q11.23 10q11.21	CT-PAC081-10-GO
NKX3-1/CCP8 FISH Probe Kit	LSP NKX3-1 CytoOrange CCP8 CytoGreen	8p21.2 8p11-q11	CT-PAC102-10-OG
NONO-TFE3 Fusion/Translocation FISH Probe Kit	LSP NONO CytoGreen LSP TFE3 3' CytoOrange	Xq13.1 Xp11.23	CT-PAC074-10-GO
NPM1-ALK Fusion/Translocation FISH Probe Kit	LSP NPM1 CytoGreen LSP ALK 3' CytoOrange	5q35.1 2p23.2	CT-PAC075-10-GO
NTRK1 Break Apart FISH Probe Kit	LSP NTRK1 5' CytoOrange LSP NTRK1 3' CytoGreen	1q23.1	CT-PAC143-10-OG
NUP214/CCP9 FISH Probe Kit	LSP NUP214 CytoOrange CCP9 CytoGreen	9q34.13 9p11-q11	CT-PAC144-10-OG
PAX3 Break Apart FISH Probe Kit	LSP PAX3 5' CytoGreen LSP PAX3 3' CytoOrange	2q36.1	CT-PAC086-10-GO
PAX3-FOXO1 Fusion/Translocation FISH Probe Kit	LSP PAX3 5' CytoGreen LSP FOXO1 3' CytoOrange	2q36.1 13q14.11	CT-PAC087-10-GO
PAX7 Break Apart FISH Probe Kit	LSP PAX7 5' CytoGreen LSP PAX7 3' CytoOrange	1p36.13	CT-PAC088-10-GO
PAX7-FOXO1 Fusion/Translocation FISH Probe Kit	LSP PAX7 5' CytoGreen LSP FOXO1 3' CytoOrange	1p36.13 13q14.11	CT-PAC089-10-GO
PAX8-PPARG Fusion/Translocation FISH Probe Kit	LSP PAX8 CytoOrange LSP PPARG CytoGreen	2q13 3p25.2	CT-PAC078-10-OG
PBX1 Break Apart FISH Probe Kit	LSP PBX1 5' CytoGreen LSP PBX1 3' CytoOrange	1q23.3	CT-PAC205-10-GO
PDGFB Break Apart FISH Probe Kit	LSP PDGFB 5' CytoGreen LSP PDGFB 3' CytoOrange	22q13.1	CT-PAC090-10-GO
PDGFRA Break Apart FISH Probe Kit	LSP PDGFRA 5' CytoGreen LSP PDGFRA 3' CytoOrange	4q12	CT-PAC091-10-GO
PDGFRA/CCP4 FISH Probe Kit	LSP PDGFRA CytoOrange CCP4 CytoGreen	4q12 4p11-q11	CT-PAC092-10-OG
PDGFRB Break Apart FISH Probe Kit	LSP PDGFRB 5' CytoOrange LSP PDGFRB 3' CytoGreen	5q32	CT-PAC210-10-OG
PIK3CA/CCP3 FISH Probe Kit	LSP PIK3CA CytoOrange CCP3 CytoGreen	3q26.32 3p11-q11	CT-PAC012-10-OG
PML-RARA Fusion/Translocation FISH Probe Kit	LSP PML CytoOrange LSP RARA CytoGreen	15q24.1 17q21.2	CT-PAC304-10-OG
PNOC/CCP8 FISH Probe Kit	LSP PNOC CytoOrange CCP8 CytoGreen	8p21.1 8p11-q11	CT-PAC145-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
PPARG Break Apart FISH Probe Kit	LSP PPARG 5' CytoOrange LSP PPARG 3' CytoGreen	3p25.2	CT-PAC146-10-OG
PRCC-TFE3 Fusion/Translocation FISH Probe Kit	LSP PRCC CytoGreen LSP TFE3 3' CytoOrange	1q23.1 Xp11.23	CT-PAC147-10-GO
PRKAR1A-RET Fusion/Translocation FISH Probe Kit (Previously known as RET-PTC2)	LSP PRKAR1A CytoGreen LSP RET 5' CytoOrange	17q24.2 10q11.21	CT-PAC080-10-GO
PTEN/CCP10 FISH Probe Kit	LSP PTEN CytoOrange CCP10 CytoGreen	10q23.31 10p11-q11	CT-PAC101-10-OG
PTGS2/CCP1 FISH Probe Kit	LSP PTGS2 CytoOrange CCP1 CytoGreen	1q31.1 1p11-q11	CT-PAC006-10-OG
PTPRT/CCP20 FISH Probe Kit	LSP PTPRT CytoOrange CCP20 CytoGreen	20q12 20p11-q11	CT-PAC148-10-OG
RARA Break Apart FISH Probe Kit	LSP RARA 5' CytoOrange LSP RARA 3' CytoGreen	17q21.2	CT-PAC093-10-OG
RB1/CCP11 FISH Probe Kit	LSP RB1 CytoOrange CCP11 FISH Probe	13q14.2 11p11-q11	CT-PAC198-10-OG
RB1/LAMP1 FISH Probe Kit	LSP RB1 CytoOrange LSP LAMP1 CytoGreen	13q14.2 13q34	CT-PAC354-10-OG
RET Break Apart FISH Probe Kit	LSP RET 5' CytoOrange LSP RET 3' CytoGreen	10q11.21	CT-PAC051-10-OG
ROS1 Break Apart FISH Probe Kit	LSP ROS1 5' CytoGreen LSP ROS1 3' CytoOrange	6q22.1	CT-PAC052-10-GO
RPN1-MECOM Fusion/Translocation FISH Probe Kit	LSP RPN1 CytoGreen LSP MECOM CytoOrange	3q21.3 3q26.2	CT-PAC094-10-GO
RPN1/CCP3 FISH Probe Kit	LSP RPN1 CytoOrange CCP3 CytoGreen	3q21.3 3p11-q11	CT-PAC149-10-OG
RREB1/CCP6 FISH Probe Kit	LSP RREB1 CytoOrange CCP6 CytoGreen	6p24.3 6p11-q11	CT-PAC150-10-OG
RUNX1-RUNX1T1 Fusion/Translocation FISH Probe Kit (Previously known as AML1-ETO)	LSP RUNX1 CytoGreen LSP RUNX1T1 CytoOrange	21q22.12 8q21.3	CT-PAC303-10-GO
S100A10/CCP1 FISH Probe Kit	LSP S100A10 CytoOrange CCP1 CytoGreen	1q21.3 1p11-q11	CT-PAC195-10-OG
S100A10/PNOC FISH Probe Kit	LSP S100A10 CytoOrange LSP PNOC CytoGreen	1q21.3 8p21.1	CT-PAC160-10-OG
SDHB/CCP1 FISH Probe Kit	LSP SDHB CytoOrange CCP1 CytoGreen	1p36.13 1p11-q11	CT-PAC023-10-OG
SEC63/CCP6 FISH Probe Kit	LSP SEC63 CytoOrange CCP6 CytoGreen	6q21 6p11-q11	CT-PAC044-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
SEC63/MYC FISH Probe Kit	LSP SEC63 CytoOrange LSP MYC CytoGreen	6q21 8q24.21	CT-PAC169-10-OG
SEC63/SMAD6 FISH Probe Kit	LSP SEC63 CytoOrange LSP SMAD6 CytoGreen	6q21 15q22.31	CT-PAC155-10-OG
SEMA5A/CCP5 FISH Probe Kit	LSP SEMA5A CytoOrange CCP5 CytoGreen	5p15.31 5p11-q11	CT-PAC043-10-OG
SFPQ-TFE3 Fusion/Translocation FISH Probe Kit	LSP SFPQ CytoGreen LSP TFE3 3' CytoOrange	1p34.3 Xp11.23	CT-PAC095-10-GO
SMAD6/CCP15 FISH Probe Kit	LSP SMAD6 CytoOrange CCP15 CytoGreen	15q22.31 15p11-q11	CT-PAC156-10-OG
SOX2/CCP3 FISH Probe Kit	LSP SOX2 CytoOrange CCP3 CytoGreen	3q26.33 3p11-q11	CT-PAC032-10-OG
SRY/CCPX FISH Probe Kit	LSP SRY CytoOrange CCPX CytoGreen	Yp11.31 Xp11-q11	CT-PAC402-10-OG
SS18 Break Apart FISH Probe	LSP SS18 5' CytoOrange LSP SS18 3' CytoGreen	18q11.2	CT-PAC082-10-OG
TBL1XR1/CCP3 FISH Probe Kit	LSP TBL1XR1 CytoOrange CCP3 CytoGreen	3q26.32 3p11-q11	CT-PAC251-10-OG
TBX1/ARSA FISH Probe Kit	LSP TBX1 CytoOrange LSP ARSA CytoGreen	22q11.21 22q13.33	CT-PAC401-10-OG
TCF3 Break Apart FISH Probe Kit	LSP TCF3 5' CytoGreen LSP TCF3 3' CytoOrange	19p13.3	CT-PAC204-10-GO
TCF3-PBX1 Fusion/Translocation FISH Probe Kit	LSP TCF3 5' CytoGreen LSP PBX1 3' CytoOrange	19p13.3 1q23.3	CT-PAC308-10-GO
TCL1A Break Apart FISH Probe Kit	LSP TCL1A 5' CytoGreen LSP TCL1A 3' CytoOrange	14q32.13	CT-PAC096-10-GO
TERC/CCP3 FISH Probe Kit	LSP TERC CytoOrange CCP3 CytoGreen	3q26.2 3p11-q11	CT-PAC166-10-OG
TERC/CCP7 FISH Probe Kit	LSP TERC CytoOrange CCP7 CytoGreen	3q26.2 7p11-q11	CT-PAC002-10-OG
TERC/PTGS2/CCP7 FISH Probe Kit	LSP TERC CytoOrange LSP PTGS2 CytoGreen CCP7 CytoAqua	3q26.2 1q31.1 7p11-q11	CT-PAC005-10-OGA
TERC/TERT/CCP7 FISH Probe Kit	LSP TERC CytoOrange LSP TERT CytoGreen CCP7 CytoAqua	3q26.2 5p15.337p11-q11	CT-PAC003-10-OGA
TERT/CCP5 FISH Probe Kit	LSP TERT CytoOrange CCP5 CytoGreen	5p15.33 5p11-q11	CT-PAC004-10-OG
TERT/EGR1 FISH Probe Kit	LSP TERT CytoOrange LSP EGR1 CytoGreen	5p15.33 5q31.2	CT-PAC167-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
TFE3 Break Apart FISH Probe Kit	LSP TFE3 5' CytoOrange LSP TFE3 3' CytoGreen	Xp11.23	CT-PAC013-10-OG
TFEB Break Apart FISH Probe Kit	LSP TFEB 5' CytoOrange LSP TFEB 3' CytoGreen	6p21.1	CT-PAC059-10-OG
TFG Break Apart FISH Probe Kit	LSP TFG 5' CytoOrange LSP TFG 3' CytoGreen	3q12.2	CT-PAC042-10-OG
TFG/CCP3 FISH Probe Kit	LSP TFG CytoOrange CCP3 CytoGreen	3q12.2	CT-PAC197-10-OG
TLX1 Break Apart FISH Probe Kit	LSP TLX1 5' CytoOrange LSP TLX1 3' CytoGreen	10q24.31	CT-PAC194-10-OG
TMPRSS2 Break Apart FISH Probe Kit	LSP TMPRSS2 5' CytoGreen LSP TMPRSS2 3' CytoOrange	21q22.3	CT-PAC154-10-GO
TMPRSS2-ERG Fusion/Translocation FISH Probe Kit	LSP TMPRSS2 5' CytoGreen LSP ERG 3' CytoOrange	21q22.3 21q22.2	CT-PAC176-10-GO
TMPRSS2-ETV1 Fusion/Translocation FISH Probe Kit	LSP TMPRSS2 5' CytoGreen LSP ETV1 3' CytoOrange	21q22.3 7p21.2	CT-PAC177-10-GO
TMPRSS2-ETV4 Fusion/Translocation FISH Probe Kit	LSP TMPRSS2 5' CytoGreen LSP ETV4 3' CytoOrange	21q22.3 17q21.31	CT-PAC178-10-GO
TNIK/CCP3 FISH Probe Kit	LSP TNIK CytoOrange CCP3 CytoGreen	3q26.2 3p11-q11	CT-PAC100-10-OG
TOP2A/CCP17 FISH Probe Kit	LSP TOP2A CytoOrange CCP17 CytoGreen	17q21.2 17p11-q11	CT-PAC008-10-OG
TP53/ATM FISH Probe Kit	LSP TP53 CytoOrange LSP ATM CytoGreen	17p13.1 11q22.3	CT-PAC106-10-OG
TP53/CCP17 FISH Probe Kit	LSP TP53 CytoOrange CCP17 CytoGreen	17p13.1 17p11-q11	CT-PAC351-10-OG
TP53/CD37 FISH Probe Kit	LSP TP53 CytoOrange LSP CD37 CytoGreen	17p13.1 19q13.33	CT-PAC157-10-OG
TP53/MPO FISH Probe Kit	LSP TP53 CytoGreen LSP MPO CytoOrange	17p13.1 17q22	CT-PAC175-10-GO
TP63/CCP3 FISH Probe Kit	LSP TP63 CytoOrange CCP3 CytoGreen	3q28 3p11-q11	CT-PAC253-10-OG
TP73/ABL2, GLTSCR1/ZNF443 FISH Probe Kit	Tube 1: LSP TP73 CytoOrange LSP ABL2 CytoGreen Tube 2: LSP GLTSCR1 CytoOrange LSP ZNF443 CytoGreen	1p36.32 1q25.2 19q13.33 19p13.2	CT-PAC037-10-OGOG
TP73/CCP1 FISH Probe Kit	LSP TP73 CytoOrange CCP1 CytoGreen	1p36.32 1p11-q11	CT-PAC038-10-OG

<u>Product Description</u>	<u>Probe Color</u>	<u>Probe Locus</u>	<u>Order #</u>
TRA Break Apart FISH Probe Kit	LSP TRA 5' CytoOrange LSP TRA 3' CytoGreen	14q11.2	CT-PAC107-10-OG
TSC1/CCP9 FISH Probe Kit	LSP TSC1 CytoOrange CCP9 CytoGreen	9q34.13 9p11-q11	CT-PAC031-10-OG
TSC2/CCP16 FISH Probe Kit	LSP TSC2 CytoOrange CCP16 CytoGreen	16p13.3 16p11-q11	CT-PAC022-10-OG
TYMS/CCP18 FISH Probe Kit	LSP TYMS CytoOrange CCP18 CytoGreen	18p11.32 18p11-q11	CT-PAC067-10-OG
USP6 Break Apart FISH Probe Kit	LSP USP6 5' CytoGreen LSP USP6 3' CytoOrange	17p13.2	CT-PAC060-10-GO
VHL/CCP3 FISH Probe Kit	LSP VHL CytoOrange CCP3 CytoGreen	3p25.3 3p11-q11	CT-PAC015-10-OG
WHSC1L1/CCP8 FISH Probe Kit	LSP WHSC1L1 CytoOrange CCP8 CytoGreen	8p11.23 8p11-q11	CT-PAC035-10-OG
WT1 Break Apart FISH Probe Kit	LSP WT1 5' CytoGreen LSP WT1 3' CytoOrange	11p13	CT-PAC097-10-GO
WT1-EWSR1 Fusion/Translocation FISH Probe Kit	LSP WT1 CytoOrange LSP EWSR1 3' CytoGreen	11p13 22q12.2	CT-PAC098-10-OG
WT1/CCP11 FISH Probe Kit	LSP WT1 CytoOrange CCP11 CytoGreen	11p13 11p11-q11	CT-PAC099-10-OG
XIST/CCPX FISH Probe Kit	LSP XIST CytoOrange CCPX CytoGreen	Xq13.2 Xp11-q11	CT-PAC020-10-OG
YWHAE Break Apart FISH Probe Kit	LSP YWHAE 5' CytoGreen LSP YWHAE 3' CytoOrange	17p13.3	CT-PAC063-10-GO
ZBTB16-RARA Fusion/Translocation FISH Probe Kit	LSP ZBTB16 CytoOrange LSP RARA CytoGreen	11q23.2 17q21.2	CT-PAC192-10-OG
ZBTB16/CCP11 FISH Probe Kit	LSP ZBTB16 CytoOrange CCP11 CytoGreen	11q23.2 11p11-q11	CT-PAC196-10-OG
ZNF217/CCP20 FISH Probe Kit	LSP ZNF217 CytoOrange CCP20 CytoGreen	20q13.2 20p11-q11	CT-PAC073-10-OG
ZNF443/GLTSCR1 FISH Probe Kit	LSP ZNF443 CytoGreen LSP GLTSCR1 CytoOrange	19p13.2 19q13.33	CT-PAC041-10-GO
ZNF703/CCP8 FISH Probe Kit	LSP ZNF703 CytoOrange CCP8 CytoGreen	8p11.23 8p11-q11	CT-PAC034-10-OG

* *Not available in the US.*

Locus Specific Probes

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP ABL1 3' FISH Probe	9q34.12	CytoGreen	CT-LSP212-10-G
LSP ABL1 5' FISH Probe	9q34.12	CytoOrange	CT-LSP211-10-O
LSP ABL1 FISH Probe	9q34.12	CytoOrange	CT-LSP179-10-O
LSP ABL2 FISH Probe	1q25.2	CytoGreen	CT-LSP033-10-G
LSP AFF1 3' FISH Probe	4q21.3	CytoOrange	CT-LSP142-10-O
LSP AFF1 5' FISH Probe	4q21.3	CytoGreen	CT-LSP141-10-G
LSP AHRR FISH Probe	5p15.33	CytoGreen	CT-LSP031-10-G
LSP ALK 3' FISH Probe	2p23.2	CytoOrange	CT-LSP086-10-O
LSP ALK 5' FISH Probe	2p23.2	CytoGreen	CT-LSP085-10-G
LSP AR FISH Probe	Xq12	CytoOrange	CT-LSP218-10-O
LSP ARSA FISH Probe	22q13.33	CytoGreen	CT-LSP047-10-G
LSP ASPSCR1 5' FISH Probe	17q25.3	CytoGreen	CT-LSP195-10-G
LSP ASS1 FISH Probe	9q34.11	CytoOrange CytoAqua	CT-LSP204-10-O CT-LSP204-10-A
LSP ATM FISH Probe	11q22.3	CytoOrange CytoGreen	CT-LSP050-10-O CT-LSP050-10-G
LSP ATRX FISH Probe	Xq21.1	CytoOrange	CT-LSP220-10-O
LSP BCL2 3' FISH Probe	18q21.33	CytoGreen	CT-LSP116-10-G
LSP BCL2 5' FISH Probe	18q21.33	CytoOrange	CT-LSP115-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP BCL2 5'-3' FISH Probe	18q21.33	CytoOrange	CT-LSP181-10-O
LSP BCL2L1 FISH Probe	20q11.21	CytoOrange	CT-LSP221-10-O
LSP BCL6 3' FISH Probe	3q27.3	CytoGreen	CT-LSP118-10-G
LSP BCL6 5' FISH Probe	3q27.3	CytoOrange	CT-LSP117-10-O
LSP BCL6 5'-3' FISH Probe	3q27.3	CytoOrange	CT-LSP182-10-O
LSP BCR FISH Probe	22q11.23	CytoGreen	CT-LSP178-10-G
LSP BIRC3 FISH Probe	11q22.2	CytoGreen	CT-LSP196-10-G
LSP BRAF 3' FISH Probe	7q34	CytoGreen	CT-LSP224-10-G
LSP BRAF 5' FISH Probe	7q34	CytoOrange	CT-LSP223-10-O
LSP BRAF FISH Probe	7q34	CytoOrange	CT-LSP222-10-O
LSP C19MC FISH Probe (Chromosome 19 microRNA Cluster)	19q13.42	CytoOrange	CT-LSP026-10-O
LSP CARS 3' FISH Probe	11p15.4	CytoGreen	CT-LSP080-10-G
LSP CARS 5' FISH Probe	11p15.4	CytoOrange	CT-LSP079-10-O
LSP CARS FISH Probe	11p15.4	CytoOrange	CT-LSP039-10-O
LSP CBFB 3' FISH Probe	16q22.1	CytoGreen	CT-LSP128-10-G
LSP CBFB 5' FISH Probe	16q22.1	CytoOrange	CT-LSP127-10-O
LSP CBFB 5'-3' FISH Probe	16q22.1	CytoOrange	CT-LSP190-10-O
LSP CCDC6 FISH Probe	10q21.2	CytoGreen	CT-LSP174-10-G
LSP CCND1 3' FISH Probe	11q13.3	CytoOrange	CT-LSP122-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP CCND1 5' FISH Probe	11q13.3	CytoGreen	CT-LSP121-10-G
LSP CCND1 5'-3' FISH Probe	11q13.3	CytoOrange	CT-LSP183-10-O
LSP CCND1 FISH Probe	11q13.3	CytoOrange	CT-LSP293-10-O
LSP CD37 FISH Probe	19q13.33	CytoOrange CytoGreen	CT-LSP225-10-O CT-LSP225-10-G
LSP CDK12 FISH Probe	17q12	CytoOrange	CT-LSP226-10-O
LSP CDK14 FISH Probe	7q21.13	CytoOrange CytoGreen	CT-LSP227-10-O CT-LSP227-10-G
LSP CDK4 FISH Probe	12q14.1	CytoOrange	CT-LSP040-10-O
LSP CDKN2A FISH Probe	9p21.3	CytoOrange	CT-LSP012-10-O
LSP CDKN2C FISH Probe (a.k.a. p16)	9p21.3	CytoOrange CytoGreen	CT- LSP068-10-O CT- LSP068-10-G
LSP CHD1 FISH Probe	5q15	CytoOrange	CT-LSP044-10-O
LSP CHD5 FISH Probe	1p36.31	CytoOrange	CT-LSP041-10-O
LSP CHIC2 FISH Probe	4q12	CytoOrange	CT-LSP260-10-O
LSP CISD2 FISH Probe	4q24	CytoOrange	CT-LSP014-10-O
LSP CKS1B FISH Probe	1q21.3	CytoOrange	CT-LSP067-10-O
LSP COL1A1 3' FISH Probe	17q21.33	CytoGreen	CT-LSP150-10-G
LSP COL1A1 5' FISH Probe	17q21.33	CytoOrange	CT-LSP149-10-O
LSP CRLF2 3' FISH Probe	Xp22.33	CytoGreen	CT-LSP210-10-G
LSP CRLF2 5' FISH Probe	Xp22.33	CytoOrange	CT-LSP209-10-O
LSP CRLF2 FISH Probe	Xp22.33	CytoOrange	CT-LSP063-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP CSF1R FISH Probe	5q32	CytoOrange	CT-LSP055-10-O
LSP CUX1 FISH Probe	7q22.1	CytoOrange CytoGreen	CT-LSP228-10-O CT-LSP228-10-G
LSP D13S25 FISH Probe	13q14.3	CytoOrange	CT-LSP059-10-O
LSP D13S319 FISH Probe	13q14.2	CytoOrange	CT-LSP061-10-O
LSP D20S108 FISH Probe	20q12	CytoOrange	CT-LSP056-10-O
LSP D22S75 FISH Probe (N25-Region)	22q11.2	CytoOrange	CT-LSP049-10-O
LSP D5S23, D5S721 FISH Probe	5p15.2	CytoGreen	CT-LSP053-10-G
LSP D7S486 FISH Probe	7q31.2	CytoOrange	CT-LSP057-10-O
LSP D7S522 FISH Probe	7q31.2	CytoOrange	CT-LSP058-10-O
LSP DCC FISH Probe	18q21.2	CytoOrange	CT-LSP019-10-O
LSP DDIT3 3' FISH Probe	12q13.3	CytoOrange CytoGreen	CT-LSP110-10-O CT-LSP110-10-G
LSP DDIT3 5' FISH Probe	12q13.3	CytoGreen	CT-LSP109-10-G
LSP DEK 3' FISH Probe	6p22.3	CytoOrange	CT-LSP206-10-O
LSP DEK 5' FISH Probe	6p22.3	CytoGreen	CT-LSP205-10-G
LSP DEK FISH Probe	6p22.3	CytoOrange CytoGreen	CT-LSP229-10-O CT-LSP229-10-G
LSP DLEU1 FISH Probe	13q14.2	CytoOrange	CT-LSP066-10-O
LSP DSCR8 FISH Probe	21q22.2	CytoOrange	CT-LSP048-10-O
LSP EGFR FISH Probe	7p11.2	CytoOrange	CT-LSP006-10-O
LSP EGR1 FISH Probe	5q31.2	CytoOrange CytoGreen	CT-LSP052-10-O CT-LSP052-10-G

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP EML4 FISH Probe	2p21	CytoGreen	CT-LSP169-10-G
LSP EPOR 3' FISH Probe	19p13.2	CytoGreen	CT-LSP144-10-G
LSP EPOR 5' FISH Probe	19p13.2	CytoOrange	CT-LSP143-10-O
LSP EPOR FISH Probe	19p13.2	CytoOrange	CT-LSP185-10-O
LSP ERBB2 FISH Probe	17q12	CytoOrange	CT-LSP001-10-O
LSP ERBB3 FISH Probe	12q13.2	CytoOrange	CT-LSP022-10-O
LSP ERBB4 FISH Probe	2q34	CytoOrange	CT-LSP023-10-O
LSP ERG 3' FISH Probe	21q22.2	CytoOrange	CT-LSP094-10-O
LSP ERG 5' FISH Probe	21q22.2	CytoGreen	CT-LSP093-10-G
LSP ETV1 3' FISH Probe	7p21.2	CytoOrange	CT-LSP100-10-O
LSP ETV1 5' FISH Probe	7p21.2	CytoGreen	CT-LSP099-10-G
LSP ETV4 3' FISH Probe	17q21.31	CytoOrange	CT-LSP102-10-O
LSP ETV4 5' FISH Probe	17q21.31	CytoGreen	CT-LSP101-10-G
LSP ETV6 3' FISH Probe	12p13.2	CytoGreen	CT-LSP126-10-G
LSP ETV6 5' FISH Probe	12p13.2	CytoOrange	CT-LSP125-10-O
LSP EWSR1 3' FISH Probe	22q12.2	CytoGreen	CT-LSP098-10-G
LSP EWSR1 5' FISH Probe	22q12.2	CytoOrange	CT-LSP097-10-O
LSP EWSR1 FISH Probe	22q12.2	CytoOrange	CT-LSP287-10-O
LSP FGF1 3' FISH Probe	5q31.3	CytoGreen	CT-LSP254-10-G

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP FGF1 5' FISH Probe	5q31.3	CytoOrange	CT-LSP253-10-O
LSP FGFR1 3' FISH Probe	8p11.23	CytoOrange	CT-LSP108-10-O
LSP FGFR1 5' FISH Probe	8p11.23	CytoGreen	CT-LSP107-10-G
LSP FGFR1 FISH Probe	8p11.23	CytoOrange	CT-LSP230-10-O
LSP FGFR2 FISH Probe	10q26.13	CytoOrange	CT-LSP231-10-O
LSP FGFR3 3' FISH Probe	4p16.3	CytoGreen	CT-LSP132-10-G
LSP FGFR3 5' FISH Probe	4p16.3	CytoOrange	CT-LSP131-10-O
LSP FGFR3 FISH Probe	4p16.3	CytoOrange	CT-LSP192-10-O
LSP FGFR4 3' FISH Probe	5q35.2	CytoGreen	CT-LSP234-10-G
LSP FGFR4 5' FISH Probe	5q35.2	CytoOrange	CT-LSP233-10-O
LSP FGFR4 FISH Probe	5q35.2	CytoOrange	CT-LSP232-10-O
LSP FHIT FISH Probe	3p14.2	CytoOrange	CT-LSP018-10-O
LSP FIP1L1 FISH Probe	4q12	CytoGreen	CT-LSP259-10-G
LSP FLCN FISH Probe	17p11.2	CytoOrange	CT-LSP021-10-O
LSP FLI1 FISH Probe	11q24.3	CytoGreen	CT-LSP288-10-G
LSP FN1 5' FISH Probe	2q35	CytoGreen CytoAqua	CT-LSP177-10-G CT-LSP177-10-A
LSP FOXO1 3' FISH Probe	13q14.11	CytoOrange CytoGreen	CT-LSP078-10-O CT-LSP078-10-G
LSP FOXO1 5' FISH Probe	13q14.11	CytoOrange	CT-LSP077-10-O
LSP FUS 3' FISH Probe	16p11.2	CytoGreen	CT-LSP096-10-G

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP FUS 5' FISH Probe	16p11.2	CytoOrange	CT-LSP095-10-O
LSP GLI1 FISH Probe	12q13.3	CytoOrange CytoGreen	CT-LSP219-10-O CT-LSP219-10-G
LSP GLO1 FISH Probe	6p21.2	CytoOrange	CT-LSP071-10-O
LSP GLTSCR1 FISH Probe	19q13.33	CytoOrange	CT-LSP034-10-O
LSP IGH 3' FISH Probe	14q32.33	CytoGreen	CT-LSP114-10-G
LSP IGH 5' FISH Probe	14q32.33	CytoOrange	CT-LSP113-10-O
LSP IGH 5'-3' FISH Probe	14q32.33	CytoGreen	CT-LSP180-10-G
LSP IPO11 FISH Probe	5q12.1	CytoOrange	CT-LSP030-10-O
LSP KIF5B 3' FISH Probe	10p11.22	CytoGreen	CT-LSP235-10-G
LSP KIF5B 5' FISH Probe	10p11.22	CytoOrange	CT-LSP171-10-O
LSP KIT FISH Probe	4q12	CytoOrange	CT-LSP236-10-
LSP KMT2A 3' FISH Probe	11q23.3	CytoGreen	CT-LSP124-10-G
LSP KMT2A 5' FISH Probe	11q23.3	CytoOrange	CT-LSP123-10-O
LSP KMT2A 5'-3' FISH Probe	11q23.3	CytoOrange	CT-LSP266-10-O
LSP KMT2A FISH Probe	11q23.3	CytoOrange	CT-LSP237-10-O
LSP KRAS FISH Probe	12p12.1	CytoOrange	CT-LSP238-10-O
LSP LAMP1 FISH Probe	13q34	CytoGreen	CT-LSP060-10-G
LSP LPL FISH Probe	8p21.3	CytoOrange	CT-LSP239-10-O
LSP LSAMP FISH Probe	3q13.31	CytoOrange	CT-LSP036-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP MAF FISH Probe	16q23.2	CytoOrange	CT-LSP193-10-O
LSP MAFB FISH Probe	20q12	CytoOrange	CT-LSP194-10-O
LSP MALT1 3' FISH Probe	18q21.32	CytoGreen	CT-LSP130-10-G
LSP MALT1 5' FISH Probe	18q21.32	CytoOrange	CT-LSP129-10-O
LSP MALT1 5'-3' FISH Probe	18q21.32	CytoOrange	CT-LSP292-10-O
LSP MCF2L FISH Probe	13q34	CytoOrange	CT-LSP020-10-O
LSP MCL1 FISH Probe	1q21.3	CytoOrange	CT-LSP240-10-O
LSP MDM2 FISH Probe	12q15	CytoOrange	CT-LSP010-10-O
LSP MECOM 3' FISH Probe	3q26.2	CytoOrange	CT-LSP156-10-O
LSP MECOM 5' FISH Probe	3q26.2	CytoGreen	CT-LSP155-10-G
LSP MECOM 5'-3' FISH Probe	3q26.2	CytoOrange	CT-LSP294-10-O
LSP MECOM FISH Probe	3q26.2	CytoOrange	CT-LSP072-10-O
LSP MET FISH Probe	7q31.2	CytoOrange	CT-LSP016-10-O
LSP MN1 3' FISH Probe	22q12.1	CytoGreen	CT-LSP201-10-G
LSP MN1 5' FISH Probe	22q12.1	CytoOrange	CT-LSP200-10-O
LSP MPO FISH Probe	17q22	CytoOrange	CT-LSP263-10-O
LSP MYB 3' FISH Probe	6q23.3	CytoGreen	CT-LSP104-10-G
LSP MYB 5' FISH Probe	6q23.3	CytoOrange	CT-LSP103-10-O
LSP MYB FISH Probe	6q23.3	CytoOrange	CT-LSP004-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP MYC 3' FISH Probe	8q24.21	CytoGreen	CT-LSP120-10-G
LSP MYC 5' FISH Probe	8q24.21	CytoOrange	CT-LSP119-10-O
LSP MYC 5'-3' FISH Probe	8q24.21	CytoOrange	CT-LSP184-10-O
LSP MYC FISH Probe	8q24.21	CytoOrange CytoGreen	CT-LSP005-10-O CT-LSP005-10-G
LSP MYCN FISH Probe	2p24.3	CytoOrange	CT-LSP073-10-O
LSP MYEOV 3' FISH Probe	11q13.3	CytoGreen	CT-LSP242-10-G
LSP MYEOV 5' FISH Probe	11q13.3	CytoOrange	CT-LSP241-10-O
LSP MYEOV FISH Probe	11q13.3	CytoOrange	CT-LSP197-10-O
LSP MYH11 3' FISH Probe	16p13.11	CytoGreen	CT-LSP140-10-G
LSP MYH11 5' FISH Probe	16p13.11	CytoOrange	CT-LSP139-10-O
LSP MYH11 5'-3' FISH Probe	16p13.11	CytoGreen	CT-LSP191-10-G
LSP MYH11 FISH Probe	16p13.11	CytoOrange	CT-LSP065-10-O
LSP NCOA4 FISH Probe	10q11.23	CytoGreen	CT-LSP176-10-G
LSP NFIB 3' FISH Probe	9p23	CytoGreen	CT-LSP170-10-G
LSP NKX3-1 FISH Probe	8p21.2	CytoOrange	CT-LSP043-10-O
LSP NONO FISH Probe	Xq13.1	CytoGreen	CT-LSP198-10-G
LSP NPM1 FISH Probe	5q35.1	CytoGreen	CT-LSP199-10-G
LSP NTRK1 3' FISH Probe	1q23.1	CytoGreen	CT-LSP244-10-G
LSP NTRK1 5' FISH Probe	1q23.1	CytoOrange	CT-LSP243-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP NUP214 3' FISH Probe	9q34.13	CytoGreen	CT-LSP208-10-G
LSP NUP214 5' FISH Probe	9q34.13	CytoOrange	CT-LSP207-10-O
LSP NUP214 FISH Probe	9q34.13	CytoOrange	CT-LSP245-10-O
LSP PAX3 3' FISH Probe	2q36.1	CytoOrange	CT-LSP158-10-O
LSP PAX3 5' FISH Probe	2q36.1	CytoGreen	CT-LSP157-10-G
LSP PAX7 3' FISH Probe	1p36.13	CytoOrange	CT-LSP160-10-O
LSP PAX7 5' FISH Probe	1p36.13	CytoGreen	CT-LSP159-10-G
LSP PAX8 FISH Probe	2q13	CytoOrange	CT-LSP172-10-O
LSP PBX1 3' FISH Probe	1q23.3	CytoOrange	CT-LSP136-10-O
LSP PBX1 5' FISH Probe	1q23.3	CytoGreen	CT-LSP135-10-G
LSP PDGFB 3' FISH Probe	22q13.1	CytoOrange CytoGreen	CT-LSP152-10-O CT-LSP152-10-G
LSP PDGFB 5' FISH Probe	22q13.1	CytoGreen	CT-LSP151-10-G
LSP PDGFRA 3' FISH Probe	4q12	CytoOrange CytoAqua	CT-LSP154-10-O CT-LSP154-10-A
LSP PDGFRA 5' FISH Probe	4q12	CytoGreen	CT-LSP153-10-G
LSP PDGFRA FISH Probe	4q12	CytoOrange	CT-LSP069-10-O
LSP PDGFRB 3' FISH Probe	5q32	CytoGreen	CT-LSP138-10-G
LSP PDGFRB 5' FISH Probe	5q32	CytoOrange	CT-LSP137-10-O
LSP PIK3CA FISH Probe	3q26.32	CytoOrange	CT-LSP011-10-O
LSP PML FISH Probe	15q24.1	CytoOrange	CT-LSP188-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP PNOG FISH Probe	8p21.1	CytoOrange CytoGreen	CT-LSP246-10-O CT-LSP246-10-G
LSP PPARG 3' FISH Probe	3p25.2	CytoGreen	CT-LSP248-10-G
LSP PPARG 5' FISH Probe	3p25.2	CytoOrange	CT-LSP247-10-O
LSP PPARG FISH Probe	3p25.2	CytoGreen	CT-LSP173-10-G
LSP PRCC FISH Probe	1q23.1	CytoGreen	CT-LSP252-10-G
LSP PRKAR1A FISH Probe	17q24.2	CytoGreen	CT-LSP175-10-G
LSP PTEN FISH Probe	10q23.31	CytoOrange	CT-LSP042-10-O
LSP PTGS2 FISH Probe	1q31.1	CytoOrange CytoGreen	CT-LSP015-10-O CT-LSP015-10-G
LSP PTPRT FISH Probe	20q12	CytoOrange	CT-LSP249-10-O
LSP RARA 3' FISH Probe	17q21.2	CytoGreen	CT-LSP162-10-G
LSP RARA 5' FISH Probe	17q21.2	CytoOrange	CT-LSP161-10-O
LSP RARA FISH Probe	17q21.2	CytoGreen	CT-LSP217-10-G
LSP RASA3 FISH Probe	13q34	CytoGreen	CT-LSP258-10-G
LSP RB1 FISH Probe	13q14.2	CytoOrange	CT-LSP054-10-O
LSP RET 3' FISH Probe	10q11.21	CytoGreen	CT-LSP090-10-G
LSP RET 5' FISH Probe	10q11.21	CytoOrange	CT-LSP089-10-O
LSP ROS1 3' FISH Probe	6q22.1	CytoOrange	CT-LSP092-10-O
LSP ROS1 5' FISH Probe	6q22.1	CytoGreen	CT-LSP091-10-G
LSP RPN1 FISH Probe	3q21.3	CytoOrange CytoGreen	CT-LSP202-10-O CT-LSP202-10-G

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP RREB1 FISH Probe	6p24.3	CytoOrange	CT-LSP250-10-O
LSP RUNX1 3' FISH Probe	21q22.12	CytoGreen	CT-LSP214-10-G
LSP RUNX1 5' FISH Probe	21q22.12	CytoOrange	CT-LSP186-10-O
LSP RUNX1 5'-3' FISH Probe	21q22.12	CytoGreen	CT-LSP295-10-G
LSP RUNX1 FISH Probe	21q22.12	CytoGreen	CT-LSP189-10-G
LSP RUNX1T1 3' FISH Probe	8q21.3	CytoGreen	CT-LSP187-10-G
LSP RUNX1T1 5' FISH Probe	8q21.3	CytoOrange	CT-LSP216-10-O
LSP RUNX1T1 FISH Probe	8q21.3	CytoOrange	CT-LSP215-10-O
LSP S100A10 FISH Probe	1q21.3	CytoOrange CytoGreen	CT-LSP255-10-O CT-LSP255-10-G
LSP SDHB FISH Probe	1p36.13	CytoOrange	CT-LSP009-10-O
LSP SEC63 FISH Probe	6q21	CytoOrange	CT-LSP038-10-O
LSP SEMA5A FISH Probe	5p15.31	CytoOrange	CT-LSP037-10-O
LSP SFPQ FISH Probe	1p34.3	CytoGreen	CT-LSP203-10-G
LSP SMAD6 FISH Probe	15q22.31	CytoOrange CytoGreen	CT-LSP251-10-O CT-LSP251-10-G
LSP SOX2 FISH Probe	3q26.33	CytoOrange	CT-LSP025-10-O
LSP SRY FISH Probe	Yp11.31	CytoOrange	CT-LSP045-10-O
LSP SS18 3' FISH Probe	18q11.2	CytoGreen	CT-LSP084-10-G
LSP SS18 5' FISH Probe	18q11.2	CytoOrange	CT-LSP083-10-O
LSP TBL1XR1 FISH Probe	3q26.32	CytoOrange	CT-LSP062-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP TBX1 FISH Probe	22q11.21	CytoOrange	CT-LSP046-10-O
LSP TCF3 3' FISH Probe	19p13.3	CytoOrange	CT-LSP134-10-O
LSP TCF3 5' FISH Probe	19p13.3	CytoGreen	CT-LSP133-10-G
LSP TCL1A 3' FISH Probe	14q32.13	CytoOrange	CT-LSP164-10-O
LSP TCL1A 5' FISH Probe	14q32.13	CytoGreen	CT-LSP163-10-G
LSP TERC FISH Probe	3q26.2	CytoOrange	CT-LSP002-10-O
LSP TERT FISH Probe	5p15.33	CytoOrange CytoGreen CytoAqua	CT-LSP003-10-O CT-LSP003-10-G CT-LSP003-10-A
LSP TFE3 3' FISH Probe	Xp11.23	CytoOrange CytoGreen	CT-LSP088-10-O CT-LSP088-10-G
LSP TFE3 5' FISH Probe	Xp11.23	CytoOrange	CT-LSP087-10-O
LSP TFEB 3' FISH Probe	6p21.1	CytoGreen	CT-LSP112-10-G
LSP TFEB 5' FISH Probe	6p21.1	CytoOrange	CT-LSP111-10-O
LSP TFG 3' FISH Probe	3q12.2	CytoGreen	CT-LSP082-10-G
LSP TFG 5' FISH Probe	3q12.2	CytoOrange	CT-LSP081-10-O
LSP TFG FISH Probe	3q12.2	CytoOrange	CT-LSP284-10-O
LSP TLX1 3' FISH Probe	10q24.31	CytoGreen	CT-LSP286-10-G
LSP TLX1 5' FISH Probe	10q24.31	CytoOrange	CT-LSP285-10-O
LSP TMPRSS2 3' FISH Probe	21q22.3	CytoOrange	CT-LSP106-10-O
LSP TMPRSS2 5' FISH Probe	21q22.3	CytoGreen	CT-LSP105-10-G
LSP TMPRSS2 FISH Probe	21q22.3	CytoOrange	CT-LSP213-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP TNIK FISH Probe	3q26.2	CytoOrange	CT-LSP076-10-O
LSP TOP2A FISH Probe	17q21.2	CytoOrange CytoGreen	CT-LSP013-10-O CT-LSP013-10-G
LSP TP53 FISH Probe	17p13.1	CytoOrange CytoGreen	CT-LSP051-10-O CT-LSP051-10-G
LSP TP63 FISH Probe	3q28	CytoOrange	CT-LSP064-10-O
LSP TP73 FISH Probe	1p36.32	CytoOrange	CT-LSP032-10-O
LSP TPM4 FISH Probe	19p13.12	CytoGreen	CT-LSP027-10-G
LSP TRA 3' FISH Probe	14q11.2	CytoGreen	CT-LSP168-10-G
LSP TRA 5' FISH Probe	14q11.2	CytoOrange	CT-LSP167-10-O
LSP TSC1 FISH Probe	9q34.13	CytoOrange	CT-LSP024-10-O
LSP TSC2 FISH Probe	16p13.3	CytoOrange	CT-LSP007-10-O
LSP TYMS FISH Probe	18p11.32	CytoOrange	CT-LSP070-10-O
LSP USP6 3' FISH Probe	17p13.2	CytoOrange	CT-LSP146-10-O
LSP USP6 5' FISH Probe	17p13.2	CytoGreen	CT-LSP145-10-G
LSP VHL FISH Probe	3p25.3	CytoOrange	CT-LSP017-10-O
LSP VIPR2 FISH Probe	7q36.3	CytoOrange	CT-LSP257-10-O
LSP WHSC1L1 FISH Probe	8p11.23	CytoOrange	CT-LSP029-10-O
LSP WT1 3' FISH Probe	11p13	CytoOrange	CT-LSP166-10-O
LSP WT1 5' FISH Probe	11p13	CytoGreen	CT-LSP165-10-G
LSP WT1 FISH Probe	11p13	CytoOrange	CT- LSP075-10-O

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
LSP XIST FISH Probe	Xq13.2	CytoOrange	CT-LSP008-10-O
LSP YWHAE 3' FISH Probe	17p13.3	CytoOrange	CT-LSP148-10-O
LSP YWHAE 5' FISH Probe	17p13.3	CytoGreen	CT-LSP147-10-G
LSP ZBTB16 FISH Probe	11q23.2	CytoOrange CytoGreen	CT-LSP256-10-O CT-LSP256-10-G
LSP ZNF217 FISH Probe	20q13.2	CytoOrange	CT- LSP074-10-O
LSP ZNF443 FISH Probe	19p13.2	CytoGreen	CT-LSP035-10-G
LSP ZNF703 FISH Probe	8p11.23	CytoOrange	CT-LSP028-10-O

Chromosome Counting Probes (CCP)

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
CCP1 FISH Probe	1p11-q11 (α -Satellite)	CytoGreen	CT-CCP001-10-G
CCP2 FISH Probe	2p11-q11 (α -Satellite)	CytoGreen	CT-CCP002-10-G
CCP3 FISH Probe	3p11-q11 (α -Satellite)	CytoGreen CytoRed	CT-CCP003-10-G CT-CCP003-10-R
CCP4 FISH Probe	4p11-q11 (α -Satellite)	CytoGreen	CT-CCP004-10-G
CCP5+19 FISH Probe (Recognizing chromosome 5 and 19)	5p11-q11 19p11-q11 (α -Satellite)	CytoGreen	CT-CCP305-10-G
CCP6 FISH Probe	6p11-q11 (α -Satellite)	CytoGreen	CT-CCP006-10-G
CCP7 FISH Probe	7p11-q11 (α -Satellite)	CytoOrange CytoGreen CytoAqua	CT-CCP007-10-O CT-CCP007-10-G CT-CCP007-10-A
CCP8 FISH Probe	8p11-q11 (α -Satellite)	CytoGreen	CT-CCP008-10-G
CCP9 FISH Probe	9p11-q11 (Pericentromeric)	CytoGreen	CT-CCP009-10-G
CCP10 FISH Probe	10p11-q11 (α -Satellite)	CytoGreen	CT-CCP010-10-G
CCP11 FISH Probe	11p11-q11 (α -Satellite)	CytoGreen	CT-CCP011-10-G
CCP12 FISH Probe	12p11-q11 (α -Satellite)	CytoGreen CytoAqua	CT-CCP012-10-G CT-CCP012-10-A
CCP13 FISH Probe	13q14.2 (Locus specific probe)	CytoGreen	CT-CCP013-10-G
CCP13+21 FISH Probe (Recognizing chromosome 13 and 21)	13p11-q11 21p11-q11 (α -Satellite)	CytoGreen	CT-CCP313-10-G
CCP14 FISH Probe	14p11-q11 (Pericentromeric)	CytoGreen	CT-CCP014-10-G
CCP14+22 FISH Probe (Recognizing chromosome 14 and 22)	14p11-q11 22p11-q11 (α -Satellite)	CytoGreen	CT-CCP314-10-G
CCP15 FISH Probe	15p11-q11 (α -Satellite)	CytoOrange CytoGreen	CT-CCP015-10-O CT-CCP015-10-G

<u>Product Description</u>	<u>Probe Locus</u>	<u>Available Color</u>	<u>Order #</u>
CCP16 FISH Probe	16p11-q11 (Pericentromeric)	CytoGreen	CT-CCP016-10-G
CCP17 FISH Probe	17p11-q11 (α -Satellite)	CytoGreen CytoAqua	CT-CCP017-10-G CT-CCP017-10-A
CCP18 FISH Probe	18p11-q11 (α -Satellite)	CytoGreen CytoAqua	CT-CCP018-10-G CT-CCP018-10-A
CCP5+19 FISH Probe (Recognizing chromosome 5 and 19)	5p11-q11 19p11-q11 (α -Satellite)	CytoGreen	CT-CCP305-10-G
CCP20 FISH Probe	20p11-q11 (α -Satellite)	CytoGreen	CT-CCP020-10-G
CCP21 FISH Probe	21q22.2 (Locus specific probe)	CytoOrange	CT-CCP021-10-G
CCP13+21 FISH Probe (Recognizing chromosome 13 and 21)	13p11-q11 21p11-q11 (α -Satellite)	CytoGreen	CT-CCP313-10-G
CCP22 FISH Probe	22q13.33 (Locus specific probe)	CytoAqua	CT-CCP022-10-A
CCP14+22 FISH Probe (Recognizing chromosome 14 and 22)	14p11-q11 22p11-q11 (α -Satellite)	CytoGreen	CT-CCP314-10-G
CCPX FISH Probe	Xp11-q11 (α -Satellite)	CytoGreen	CT-CCP023-10-G
CCPY (DYZ1) FISH Probe	Yp11-q11 (α -Satellite)	CytoOrange CytoGreen	CT-CCP124-10-O CT-CCP124-10-G
CCPY (DYZ3) FISH Probe	Yp11-q11 (α -Satellite)	CytoOrange CytoGreen	CT-CCP224-10-O CT-CCP224-10-G

Subtelomere Probes (STP)

<u>Product Description</u>	<u>Available Color</u>	<u>Order #</u>
Chromosome 1p Subtelomere FISH Probe	CytoGreen	CT-STP01P-10-G
Chromosome 2p Subtelomere FISH Probe	CytoGreen	CT-STP02P-10-G
Chromosome 3p Subtelomere FISH Probe	CytoGreen	CT-STP03P-10-G
Chromosome 4p Subtelomere FISH Probe	CytoGreen	CT-STP04P-10-G
Chromosome 5p Subtelomere FISH Probe	CytoGreen	CT-STP05P-10-G
Chromosome 6p Subtelomere FISH Probe	CytoGreen	CT-STP06P-10-G
Chromosome 7p Subtelomere FISH Probe	CytoGreen	CT-STP07P-10-G
Chromosome 8p Subtelomere FISH Probe	CytoGreen	CT-STP08P-10-G
Chromosome 9p Subtelomere FISH Probe	CytoGreen	CT-STP09P-10-G
Chromosome 10p Subtelomere FISH Probe	CytoGreen	CT-STP10P-10-G
Chromosome 11p Subtelomere FISH Probe	CytoGreen	CT-STP11P-10-G
Chromosome 12p Subtelomere FISH Probe	CytoGreen	CT-STP12P-10-G
Chromosome 16p Subtelomere FISH Probe	CytoGreen	CT-STP16P-10-G
Chromosome 17p Subtelomere FISH Probe	CytoGreen	CT-STP17P-10-G
Chromosome 18p Subtelomere FISH Probe	CytoGreen	CT-STP18P-10-G
Chromosome 19p Subtelomere FISH Probe	CytoGreen	CT-STP19P-10-G
Chromosome 20p Subtelomere FISH Probe	CytoGreen	CT-STP20P-10-G

<u>Product Description</u>	<u>Available Color</u>	<u>Order #</u>
Chromosome XpYp Subtelomere FISH Probe (Specific for the p-arms of both chromosome X and Y)	CytoGreen	CT-STPXYP-10-G
Chromosome 1q Subtelomere FISH Probe	CytoRed	CT-STP01Q-10-R
Chromosome 2q Subtelomere FISH Probe	CytoRed	CT-STP02Q-10-R
Chromosome 3q Subtelomere FISH Probe	CytoRed	CT-STP03Q-10-R
Chromosome 4q Subtelomere FISH Probe	CytoRed	CT-STP04Q-10-R
Chromosome 5q Subtelomere FISH Probe	CytoRed	CT-STP05Q-10-R
Chromosome 6q Subtelomere FISH Probe	CytoRed	CT- STP06Q-10-R
Chromosome 7q Subtelomere FISH Probe	CytoRed	CT-STP07Q-10-R
Chromosome 8q Subtelomere FISH Probe	CytoRed	CT-STP08Q-10-R
Chromosome 9q Subtelomere FISH Probe	CytoRed	CT-STP09Q-10-R
Chromosome 10q Subtelomere FISH Probe	CytoRed	CT-STP10Q-10-R
Chromosome 11q Subtelomere FISH Probe	CytoRed	CT-STP11Q-10-R
Chromosome 12q Subtelomere FISH Probe	CytoRed	CT-STP12Q-10-R
Chromosome 13q Subtelomere FISH Probe	CytoRed	CT-STP13Q-10-R
Chromosome 14q Subtelomere FISH Probe	CytoRed	CT-STP14Q-10-R
Chromosome 15q Subtelomere FISH Probe	CytoRed	CT-STP15Q-10-R
Chromosome 16q Subtelomere FISH Probe	CytoRed	CT-STP16Q-10-R
Chromosome 17q Subtelomere FISH Probe	CytoRed	CT-STP17Q-10-R
Chromosome 18q Subtelomere FISH Probe	CytoRed	CT-STP18Q-10-R

<u>Product Description</u>	<u>Available Color</u>	<u>Order #</u>
Chromosome 19q Subtelomere FISH Probe	CytoRed	CT-STP19Q-10-R
Chromosome 20q Subtelomere FISH Probe	CytoRed	CT-STP20Q-10-R
Chromosome 21q Subtelomere FISH Probe	CytoRed	CT-STP21Q-10-R
Chromosome 22q Subtelomere FISH Probe	CytoRed	CT-STP22Q-10-R
Chromosome XqYq Subtelomere FISH Probe (Specific for the q-arms of both chromosome X and Y)	CytoRed	CT-STPXYQ-10-R

Whole Chromosome Painting Probes (WPP)

<u>Product Description</u>	<u>Order #</u>
Whole Chromosome 1 Painting FISH Probe	CT-WPP001
Whole Chromosome 2 Painting FISH Probe	CT-WPP002
Whole Chromosome 3 Painting FISH Probe	CT- WPP003
Whole Chromosome 4 Painting FISH Probe	CT-WPP004
Whole Chromosome 5 Painting FISH Probe	CT-WPP005
Whole Chromosome 6 Painting FISH Probe	CT-WPP006
Whole Chromosome 7 Painting FISH Probe	CT-WPP007
Whole Chromosome 8 Painting FISH Probe	CT-WPP008
Whole Chromosome 9 Painting FISH Probe	CT-WPP009
Whole Chromosome 10 Painting FISH Probe	CT-WPP010
Whole Chromosome 11 Painting FISH Probe	CT-WPP011
Whole Chromosome 12 Painting FISH Probe	CT-WPP012
Whole Chromosome 13 Painting FISH Probe	CT-WPP013
Whole Chromosome 14 Painting FISH Probe	CT-WPP014
Whole Chromosome 15 Painting FISH Probe	CT-WPP015
Whole Chromosome 16 Painting FISH Probe	CT-WPP016
Whole Chromosome 17 Painting FISH Probe	CT-WPP017

<u>Product Description</u>	<u>Order #</u>
Whole Chromosome 18 Painting FISH Probe	CT-WPP018
Whole Chromosome 19 Painting FISH Probe	CT-WPP019
Whole Chromosome 20 Painting FISH Probe	CT-WPP020
Whole Chromosome 21 Painting FISH Probe	CT-WPP021
Whole Chromosome 22 Painting FISH Probe	CT-WPP022
Whole Chromosome X Painting FISH Probe	CT-WPP023
Whole Chromosome Y Painting FISH Probe	CT-WPP024

Chromosome Arm Painting Probes (APP)

<u>Product Description</u>	<u>Order #</u>
Chromosome 1p Arm Painting FISH Probe	CT-APP01P
Chromosome 2p Arm Painting FISH Probe	CT-APP02P
Chromosome 3p Arm Painting FISH Probe	CT- APP03P
Chromosome 4p Arm Painting FISH Probe	CT-APP04P
Chromosome 5p Arm Painting FISH Probe	CT-APP05P
Chromosome 6p Arm Painting FISH Probe	CT-APP06P
Chromosome 7p Arm Painting FISH Probe	CT-APP07P
Chromosome 8p Arm Painting FISH Probe	CT-APP08P
Chromosome 9p Arm Painting FISH Probe	CT-APP09P
Chromosome 10p Arm Painting FISH Probe	CT-APP10P
Chromosome 11p Arm Painting FISH Probe	CT-APP11P
Chromosome 12p Arm Painting FISH Probe	CT-APP12P
Chromosome 13p Arm Painting FISH Probe	CT-APP13P
Chromosome 14p Arm Painting FISH Probe	CT-APP14P
Chromosome 15p Arm Painting FISH Probe	CT-APP15P
Chromosome 16p Arm Painting FISH Probe	CT-APP16P
Chromosome 17p Arm Painting FISH Probe	CT-APP17P

<u>Product Description</u>	<u>Order #</u>
Chromosome 18p Arm Painting FISH Probe	CT-APP18P
Chromosome 19p Arm Painting FISH Probe	CT-APP19P
Chromosome 20p Arm Painting FISH Probe	CT-APP20P
Chromosome 21p Arm Painting FISH Probe	CT-APP21P
Chromosome 22p Arm Painting FISH Probe	CT-APP22P
Chromosome Xp Arm Painting FISH Probe	CT-APP23P
Chromosome Yp Arm Painting FISH Probe	CT-APP24P
Chromosome 1q Arm Painting FISH Probe	CT-APP01Q
Chromosome 2q Arm Painting FISH Probe	CT-APP02Q
Chromosome 3q Arm Painting FISH Probe	CT- APP03Q
Chromosome 4q Arm Painting FISH Probe	CT-APP04Q
Chromosome 5q Arm Painting FISH Probe	CT-APP05Q
Chromosome 6q Arm Painting FISH Probe	CT-APP06Q
Chromosome 7q Arm Painting FISH Probe	CT-APP07Q
Chromosome 8q Arm Painting FISH Probe	CT-APP08Q
Chromosome 9q Arm Painting FISH Probe	CT-APP09Q
Chromosome 10q Arm Painting FISH Probe	CT-APP10Q
Chromosome 11q Arm Painting FISH Probe	CT-APP11Q
Chromosome 12q Arm Painting FISH Probe	CT-APP12Q

<u>Product Description</u>	<u>Order #</u>
Chromosome 13q Arm Painting FISH Probe	CT-APP13Q
Chromosome 14q Arm Painting FISH Probe	CT-APP14Q
Chromosome 15q Arm Painting FISH Probe	CT-APP15Q
Chromosome 16q Arm Painting FISH Probe	CT-APP16Q
Chromosome 17q Arm Painting FISH Probe	CT-APP17Q
Chromosome 18q Arm Painting FISH Probe	CT-APP18Q
Chromosome 19q Arm Painting FISH Probe	CT-APP19Q
Chromosome 20q Arm Painting FISH Probe	CT-APP20Q
Chromosome 21q Arm Painting FISH Probe	CT-APP21Q
Chromosome 22q Arm Painting FISH Probe	CT-APP22Q
Chromosome Xq Arm Painting FISH Probe	CT-APP23Q
Chromosome Yq Arm Painting FISH Probe	CT-APP24Q

Chromosome Terminal Band Painting Probes (TPP)

<u>Product Description</u>	<u>Order #</u>
Chromosome 1p Terminal Band Painting FISH Probe	CT-TPP01P
Chromosome 2p Terminal Band Painting FISH Probe	CT-TPP02P
Chromosome 3p Terminal Band Painting FISH Probe	CT-TPP03P
Chromosome 4p Terminal Band Painting FISH Probe	CT-TPP04P
Chromosome 5p Terminal Band Painting FISH Probe	CT-TPP05P
Chromosome 6p Terminal Band Painting FISH Probe	CT-TPP06P
Chromosome 7p Terminal Band Painting FISH Probe	CT-TPP07P
Chromosome 8p Terminal Band Painting FISH Probe	CT-TPP08P
Chromosome 9p Terminal Band Painting FISH Probe	CT-TPP09P
Chromosome 10p Terminal Band Painting FISH Probe	CT-TPP10P
Chromosome 11p Terminal Band Painting FISH Probe	CT-TPP11P
Chromosome 12p Terminal Band Painting FISH Probe	CT-TPP12P
Chromosome 13p Terminal Band Painting FISH Probe	CT-TPP13P
Chromosome 14p Terminal Band Painting FISH Probe	CT-TPP14P
Chromosome 15p Terminal Band Painting FISH Probe	CT-TPP15P
Chromosome 16p Terminal Band Painting FISH Probe	CT-TPP16P
Chromosome 17p Terminal Band Painting FISH Probe	CT-TPP17P

<u>Product Description</u>	<u>Order #</u>
Chromosome 18p Terminal Band Painting FISH Probe	CT-TPP18P
Chromosome 19p Terminal Band Painting FISH Probe	CT-TPP19P
Chromosome 20p Terminal Band Painting FISH Probe	CT-TPP20P
Chromosome 21p Terminal Band Painting FISH Probe	CT-TPP21P
Chromosome 22p Terminal Band Painting FISH Probe	CT-TPP22P
Chromosome Xp Terminal Band Painting FISH Probe	CT-TPP23P
Chromosome Yp Terminal Band Painting FISH Probe	CT-TPP24P
Chromosome 1q Terminal Band Painting FISH Probe	CT-TPP01Q
Chromosome 2q Terminal Band Painting FISH Probe	CT-TPP02Q
Chromosome 3q Terminal Band Painting FISH Probe	CT-TPP03Q
Chromosome 4q Terminal Band Painting FISH Probe	CT-TPP04Q
Chromosome 5q Terminal Band Painting FISH Probe	CT-TPP05Q
Chromosome 6q Terminal Band Painting FISH Probe	CT-TPP06Q
Chromosome 7q Terminal Band Painting FISH Probe	CT-TPP07Q
Chromosome 8q Terminal Band Painting FISH Probe	CT-TPP08Q
Chromosome 9q Terminal Band Painting FISH Probe	CT-TPP09Q
Chromosome 10q Terminal Band Painting FISH Probe	CT-TPP10Q
Chromosome 11q Terminal Band Painting FISH Probe	CT-TPP11Q
Chromosome 12q Terminal Band Painting FISH Probe	CT-TPP12Q

<u>Product Description</u>	<u>Order #</u>
Chromosome 13q Terminal Band Painting FISH Probe	CT-TPP13Q
Chromosome 14q Terminal Band Painting FISH Probe	CT-TPP14Q
Chromosome 15q Terminal Band Painting FISH Probe	CT-TPP15Q
Chromosome 16q Terminal Band Painting FISH Probe	CT-TPP16Q
Chromosome 17q Terminal Band Painting FISH Probe	CT-TPP17Q
Chromosome 18q Terminal Band Painting FISH Probe	CT-TPP18Q
Chromosome 19q Terminal Band Painting FISH Probe	CT-TPP19Q
Chromosome 20q Terminal Band Painting FISH Probe	CT-TPP20Q
Chromosome 21q Terminal Band Painting FISH Probe	CT-TPP21Q
Chromosome 22q Terminal Band Painting FISH Probe	CT-TPP22Q
Chromosome Xq Terminal Band Painting FISH Probe	CT-TPP23Q
Chromosome Yq Terminal Band Painting FISH Probe	CT-TPP24Q

Other Reagents & Accessories

Product Description

Order

Cytotest FISH Reagent Kit

CT-ACC101

Intended Use

CytoTest's FISH Reagents Kit is designed to wash and stain tissue samples after hybridization for optimal performance of CytoTest's FISH probes.

Reagents Provided

Reagents	Quantity	Storage
20X SSC Salt	1 x 66 g	20°C to 25°C
DAPI Counterstain	1 x 300 uL	2°C to 6°C Avoid light
NP-40	2 x 2 mL	20°C to 25°C

For Laboratory Use

Cytotest Paraffin Pretreatment Kit

CT-ACC112

Intended Use

CytoTest's Paraffin Pretreatment Kit is optimized to treat formalin-fixed paraffin-embedded tissue sections for use in fluorescence *in situ* hybridization with CytoTest's FISH probes.

Reagents Provided

Reagents	Quantity	Storage
Pretreatment Solution	5 x 50 mL	2°C to 25°C
Protease Buffer	5 x 62.5 mL	2°C to 25°C
Protease	5 x 250 mg	-20°C to -15°C

For Laboratory Use

<u>Product Description</u>		<u>Order #</u>
20X SSC Salt	1 x 66 g	CT-ACC002
DAPI Counterstain	1 x 300 µL	CT-ACC004
Hybridization Buffer	1 x 100 µL	CT-ACC001
NP-40	2 x 2 mL	CT-ACC003
Pretreatment Solution	1 x 50 mL	CT-ACC011
Protease	1 x 250 mg	CT-ACC013
Protease Buffer	1 x 62.5 mL	CT-ACC012
CytoRed-dUTP	1 x 25 µL	CT-ACC051-25
CytoOrange-dUTP	1 x 25 µL	CT-ACC052-25
CytoGold-dUTP	1 x 25 µL	CT-ACC053-25
CytoGreen-dUTP	1 x 25 µL	CT-ACC054-25
CytoAqua-dUTP	1 x 25 µL	CT-ACC055-25

Fluorescence Microscope Filters

<u>Product Description</u>	<u>Fluorophore</u>	<u>Order #</u>
Cytotest DAPI Single band-pass filter set	DAPI	CT-ACC501
Cytotest Red Single band-pass filter set	CytoRed™	CT-ACC502
Cytotest Orange Single band-pass filter set	CytoOrange™	CT-ACC503
Cytotest Gold Single band-pass filter set	CytoGold™	CT-ACC504
Cytotest Green Single band-pass filter set	CytoGreen™	CT-ACC505
Cytotest Aqua Single band-pass filter set	CytoAqua™	CT-ACC506

SERVICES

Custom Probe Service

Custom Services, Made-to-order Probes

At CytoTest, we will do our best to answer your molecular cytogenetics needs, whatever the desired scale or intended application.

In addition to the pre-validated and optimized probes listed in our product catalog, we are continuously adding new products. Sometimes these are developed because the need for a new test is anticipated by one of our clinical or research partners or predicted by our scientists. More frequently, new probe kits are added in response to specific customer inquiries, particularly in the areas of rare tumors or companion diagnostics for new and experimental therapeutics.

We have successfully designed, tested and delivered novel FISH probes for new aberrations following requests from clinical collaborators, including assay kits for complex rearrangements found in rare or novel clinical categories or for prognostic and predictive markers of clinical subtypes requiring unique treatment.

Our probes have been optimized for efficient, convenient, sensitive and specific detection of genomic rearrangements and aberrations (amplification, deletion, translocation) at high signal to noise ratios combined with low cross-reactivity and background. From standard probe production to flexible custom design and testing, we offer assistance with all stages of the development course:

- Design:
 - Novel probes
 - Send us your design rationale or blueprint, or
 - explain your need, and let us design suitable probes,
 - locus specific probes (LSP), chromosome counting probes (CCP), or translocation (fusion or break apart) probe kits,
 - multi-color detection kits (e.g. for complex translocations/rearrangements)
 - not commercially available elsewhere
 - Optimize existing probes
 - Increase target specificity
 - Enhance signal intensity
 - Modify fluorescent color
- Development:
 - DNA isolation, purification and authentication
 - Probe labeling and purification
 - Manufacturing under GMP guidelines
 - Sample preparation
 - Normal white blood cells
 - Metaphase spreads
 - Fresh, frozen or FFPE tissue
 - *In situ* hybridization
- Testing and validation:
- Protocol development:
- Expert analysis
 - Our scientists will be happy to
 - assist in reading and interpretation of your results, or
 - carry out data collection from large sample sets.

Estimates on pricing, QC specifications and development and delivery time can be provided depending on required amounts of material and the complexity of design.

If you need help at any of the steps above, or have an unmet need for a specific FISH probe, or set of probes, protocol, reagent or service, please contact our R&D technical support team at:

http://www.cytotest.com/contact_s.asp

CytoTest Cytogenetics Training Center

Fluorescence *in situ* Hybridization (FISH) training course

Accelerate your FISH training by reaching out to a CytoTest Cytogenetics Training Center. Work with knowledgeable instructors in quiet classroom settings utilizing representative sample projects and advanced exercises.

Goal

- Provide the best service for our customers,
- Promote FISH knowledge and technology, provide training for the operators.
- Enable economical and efficient application, to derive optimum value from CytoTest products and services.

Participants/target audience

Clinical, academic and biotechnology laboratory managers and staff, researchers or medical technicians who want to learn about FISH technology.

Learning Objectives

- FISH basic principles
- FISH technical processes
- FISH practical operation
- FISH experimental techniques
- Use and maintenance of the fluorescence microscope

Hardware

Olympus fluorescence microscope

Teachers

CytoTest FISH training team.

Training Location

Room 907, 8th Floor, Building 3, No.88 Kechuang 6th St.
Beijing Economic and Technological Development Area
Beijing, China.

Other courses

- SKY: Spectral Karyotyping – principles and applications
- aCGH: Array-CGH training workshop

Those who complete the training course will be awarded a certificate. Please contact our customer support staff for further information. http://www.cytotest.com/contact_s.asp

CLIA Diagnostics Laboratory

Diagnostic Services at the CytoTest CLIA Laboratory

Our CLIA clinical reference laboratory, located at the CytoTest USA R&D Center takes pride in offering genetic laboratory services at the highest standard of quality while keeping test prices at a competitive level.

Through the use of both traditional cytogenetics as well as molecular cytogenetic techniques, especially by fluorescence *in situ* hybridization (FISH), CytoTest performs chromosome and interphase studies on a wide range of specimen types.

Cytogenetic studies are performed for diagnosis and/or treatment selection and for monitoring and prognosis in solid tumors and hematological malignancies. Please contact us for specimen handling and shipping requirements.

Fluorescent *in situ* hybridization (FISH)

- Aneuploidy
- HER2-Neu (breast cancer)
- Prostate cancer
- Bladder cancer
- Cervical Cancer - 3qTERC
- Oncology probes/panels - Hematologic malignancies
- Microarray-based CGH (send-out)

Research Services

- G-band Karyotyping
- Stem cell karyotype analysis
- Cancer Biomarker validation studies

Pregnancy Screening

In addition to solid tumors and hematological malignancies, CytoTest also performs the following prenatal screening tests:

- First trimester screening (PAPP-A, hCG, nuchal translucency)
- Quad screen (AFP, hCG, uE3, Inhibin-A)
- Amniotic fluid AFP
- Amniotic fluid AChE

RESOURCES

Websites

SKY/M-FISH and CGH Database

<http://www.ncbi.nlm.nih.gov/sky/>

The Cancer Genome Anatomy Project

<http://cgap.nci.nih.gov>

Mitelman Database of The Cancer Genome Atlas

<http://cancergenome.nih.gov>

Online Mendelian Inheritance in Man

<http://www.omim.org>

NCBI Genome Browser

<http://www.ncbi.nlm.nih.gov/mapview/>

ENSEMBL Genome Browser

<http://uswest.ensembl.org/index.html>

UCSC Genome Browser

<http://genome.ucsc.edu>

NCBI Genome Tools

<http://www.ncbi.nlm.nih.gov/genome>

Atlas of Genetics and Cytogenetics in Oncology and Hematology

<http://atlasgeneticsoncology.org/index.html>

CCAP FISH-mapped BACs

http://cgap.nci.nih.gov/Chromosomes/CCAP_BAC_Clones

Human BAC Resource

<http://www.ncbi.nlm.nih.gov/genome/cyto/hbrc.shtml>

BACPAC Resources Center

<https://bacpac.chori.org>

Human Genome Project

http://web.ornl.gov/sci/techresources/Human_Genome/index.shtml

HUGO Gene Nomenclature Committee

<http://www.genenames.org>

Technical Tips

Cell Suspension Preparation

- Hypotonic treatment

Hypotonic treatment is critical for chromosome spreading. Too long or too short hypotonic incubations lead to inadequate spreading and poor banding or hybridization quality. For hypotonic treatment of peripheral blood lymphocytes, it is recommended to incubate the cells in 0.075 M KCl at 37°C for 15 minutes.

- Cell washing

After hypotonic incubation, cell suspensions should be washed several times in fresh fixative solution (methanol : acetic acid = 3:1). To make the washing easier and faster, the cells can be transferred to 1.5 ml microcentrifuge tubes. After washing, centrifuge the cells at 6,000 rpm for 1-2 minutes to collect the cells.

- Storage

Cell suspensions can be stored in 1.5 ml or 2.0 ml microcentrifuge vials filled with fixative at -20°C for several years.

Slide Preparation

- Slide treatment

Commercially pre-cleaned slides do not require any extra cleaning steps prior to use. If the slides were not pre-cleaned, clean the slides by soaking the slide/cover slip in acetone, HCl, acetic acid and water prior to use.

- Volume of dropping cells

10-20 µl cell suspension can be dropped on a slide by using a 200 µl pipette.

- Dropping from a height

It is not necessary.

- Methods to control the degree of spreading

Chromosome spreading takes place at the time when the fixative surface, as it evaporates, comes in contact with the spherical cell surfaces. This is the critical moment to intervene in order to increase or decrease the degree of spreading. Water vapors, heat or variable acetic acid concentrations can be used.

- How to reduce the influence of the atmospheric humidity

After dropping cell suspension on slide(s), the fixative evaporates. When the surface of the slide(s) becomes grainy, put the slide face-down into the steam of a hot water bath for 1-3 seconds, and then let the slide dry at room temperature. The hot steam will reduce the influence of the atmospheric humidity.

- Slide aging

The slides should be aged at 37°C for 1-2 day before use. Over-aged metaphase spread may result weak and unspecific signals. It is not recommended to use slides aged at 37°C longer than 1 week.

Denaturation and Hybridization

- Slide denaturation

Metaphase spread slides should be denatured in denaturing solution at 75°C for 5 minutes followed by dehydrating in 70%, 85% and 100% ethanol 1 minute each. Over-aged slides need more time for denaturing.

- Probe denaturation

The probe should be denatured at 75°C for 5 minutes followed by cooling at room temperature. Probe pre-annealing is not essential.

- Hybridization chamber

To prevent the slides from drying during hybridization, place the slide(s) in a moist hybridization chamber. Extra water below the slides does not harm, but will be helpful to the hybridization when the coverslip(s) sealing is incomplete.

LEGAL TERMS

Terms of Sale

1. Delivery

Delivery terms shall be FOB CytoTest shipping point, freight will be added to the invoice. Title and risk of loss shall pass to Customer upon delivery to the carrier. CytoTest reserves the right to make delivery in installments, all such installments to be separately invoiced and paid for when due per invoice, without regard to subsequent deliveries. Delay in delivery of any installment shall not relieve Customer of Customer's obligations to accept remaining deliveries.

2. Inspection and Returns

Upon your receipt of goods, you shall inspect the goods and notify our Customer Services Department of any claims for shortages, defects or damages. If you fail to so notify us within ten days after you receive the goods, the goods shall conclusively be deemed to conform to these Terms and Conditions and to have been accepted by you. Authorization for all product returns must be approved by our Customer Services Department and a return authorization number given to you prior to the return of goods. Not all items will be authorized for return, due to temperature and packing requirements. Items authorized for return must arrive at our facilities in a state satisfactory for resale to be eligible for product credit. A restocking charge of 20% or \$25 (whichever is greater) may be charged on returns that are not the result of any error or fault of ours. Shipping charges will not be credited. Goods may not be returned for credit more than 30 days after your receipt of the goods.

3. Credits and Refunds

At our discretion, we may issue a product credit or refund for the product value and shipping charges. No product credit shall be available for use if a past due balance is outstanding on the account. Any product credit not used within six months of the date of issue shall expire.

4. Product Descriptions

The product descriptions provided in this catalog are for general informational purposes only, and are not warranties or promises regarding the products, their features or performance. If you are interested in further information regarding product pricing, license or sales terms, please contact CytoTest's customer service.

5. Warranties

CytoTest warrants that the product will meet specifications listed. At CytoTest's discretion, free replacement of any nonconforming product will be made if CytoTest is notified within 30 days of product receipt. This warranty limits CytoTest's liability to the cost of replacement of the product in question only. CytoTest provides no other warranty, express or implied, and is not liable or responsible for any indirect or incidental damages or loss as a consequence of product use. No warranty is given for products used after the printed expiration date or for products not stored or used according to the product use specifications given. If you experience difficulty with any CytoTest product, please contact CytoTest Technical Support promptly.

6. Price Change Policy

CytoTest reserves the right to change pricing on its products at its discretion. Should the customer note a non-promotional price change within 30 days of placing an order, they may contact CytoTest Customer Support for assistance.



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