

ISH Product List 2023

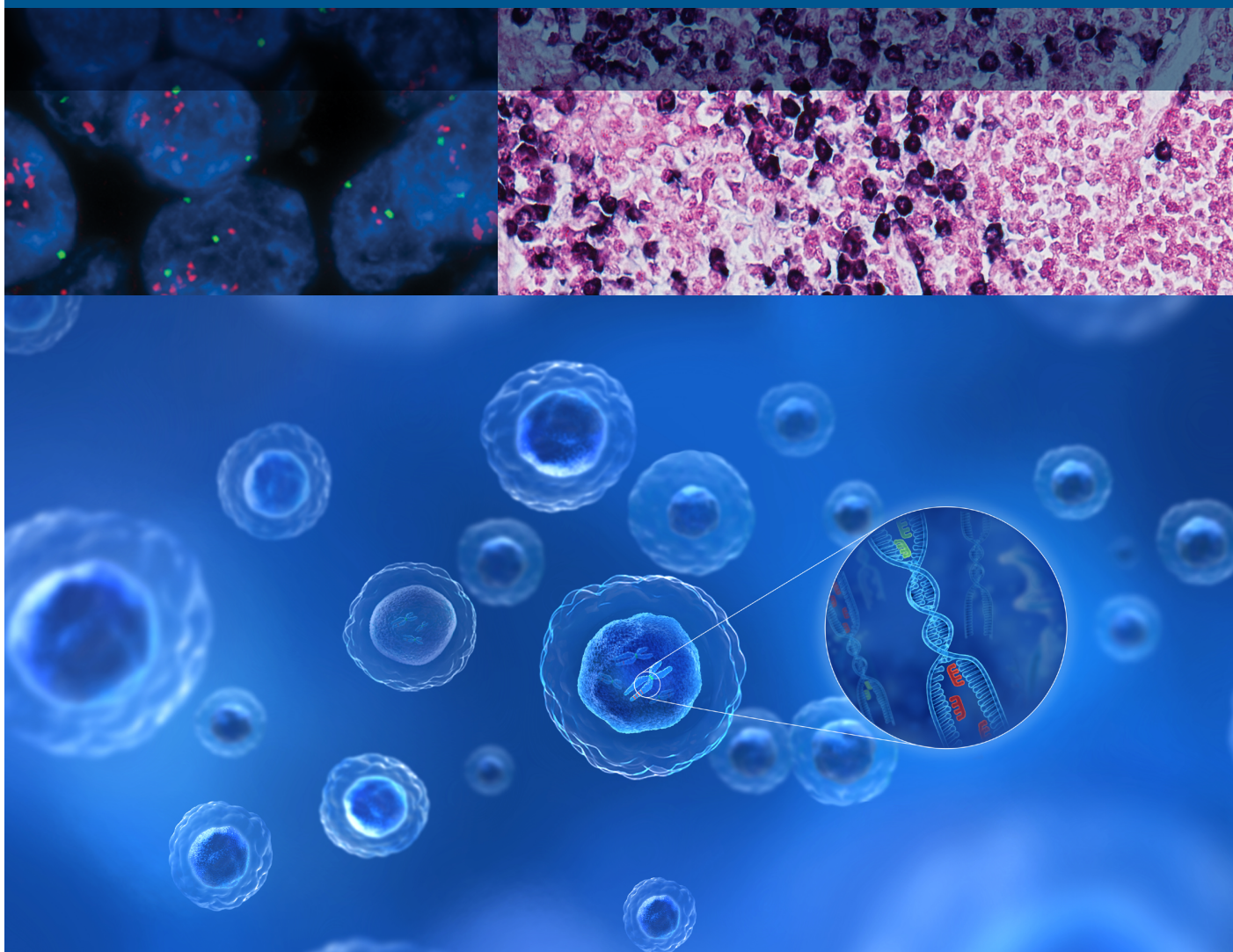


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Diagnostic IQFISH Assays for Manual Use

Fastest time to result

Combining the established quality of SureFISH with our first to market IQFISH Fast Hybridization Buffer, allows Agilent to offer our customers a ready-to-use solution for FISH diagnostic assays. The result is higher signal-to-noise ratios in a less than 4-hour turnaround time, reducing the costs associated with labor and assay failures. These IVD ready-to-use probes, combined with Dako Histology FISH Accessory Kit, ensure consistent bright signals and superior tissue morphology.

IQFISH panel for lung cancer

The IQFISH panel for lung cancer is a panel of oligonucleotide-based FISH probes, premixed with IQFISH Buffer, for the detection of rearrangements involving three different break apart and one copy number probe to detect gene rearrangement by fluorescence in situ hybridization (FISH). These ready-to-use (RTU) probes are to be used on formalin-fixed, paraffin-embedded (FFPE) lung tissue sections.

Target	Part number	Description	Probe type	Fluorescent color	Size	Regulatory status
ALK	G111600-8	ALK IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
ROS1	G111601-8	ROS1 IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
RET	G111602-8	RET IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
MET/CEP 7	G111603-8	MET IQFISH Probe with CEP 7	Copy Number	Cy3/FITC	RTU, 20 tests	IVD

IQFISH panel for lymphoma

The IQFISH panel for lymphoma is a set of oligonucleotide-based, ready-to-use FISH probes premixed with IQFISH Buffer for the detection of rearrangements involving the *MYC*, *BCL2*, *BCL6*, *MALT1*, *CCND1*, and *IGH* genes by FISH. These RTU probes are for use on FFPE tissue sections and are available for break apart tests.

Target	Part number	Description	Probe type	Fluorochrome	Size	Regulatory status
BCL2	G111620-2	BCL2 IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
BCL6	G111621-2	BCL6 IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
CCND1	G111622-2	CCND1 IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
MALT1	G111619-2	MALT1 IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
MYC	G111623-2	MYC IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
IGH	G111624-2	IGH IQFISH Break-Apart Probe	Break Apart	Cy3/FITC	RTU, 20 tests	IVD

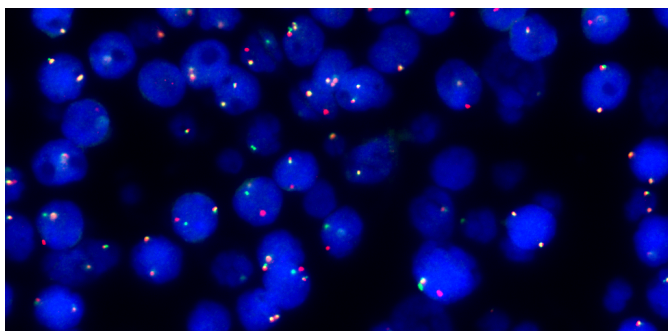


Figure 1. MALT1 probe. Translocated case.

Accessory kit for manual FISH test

An accessory kit is required to perform the above tests (IQFISH panels for lung and lymphoma). The kit includes Pre-Treatment Solution, Pepsin, Pepsin Diluent, Stringent Wash Buffer, Fluorescence Mounting Medium, Wash Buffer, and Coverslip Sealant.

	Part number	Description	Size	Regulatory status
Accessory kit	K579911-2	Dako Histology FISH Accessory Kit for IQFISH	20 tests	IVD



Figure 2. Dako Histology FISH Accessory Kit for IQFISH.

HER2 IQFISH pharmDx Kit

The below kit includes probes and accessories needed to perform the test. *HER2* IQFISH pharmDx is a direct fluorescence in situ hybridization (FISH) assay designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) **breast cancer** tissue specimens and **adenocarcinoma of the stomach including gastro-esophageal junction**. *HER2* IQFISH pharmDx is indicated in adjunction to HercepTest™ in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

Target	Part number	Description	Probe type	Fluorochrome	Size	Regulatory status
HER2	K573111-2	HER2 IQFISH pharmDx	Copy Number	Texas Red/FITC	20 tests	IVD

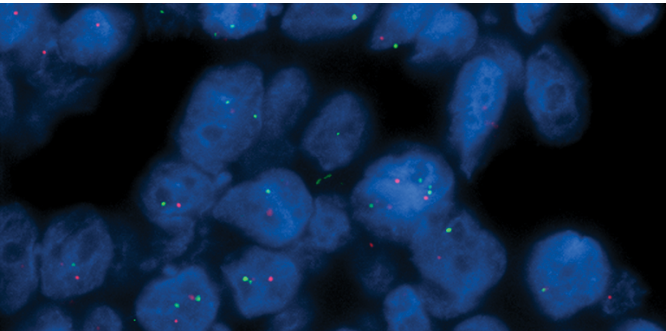


Figure 3. *HER2* FISH, nonamplified case.

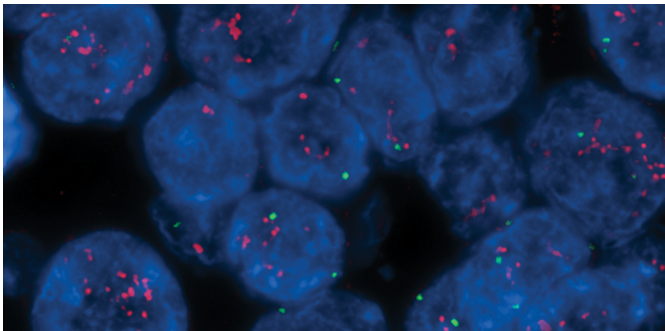


Figure 4. *HER2* FISH, amplified case.

Diagnostic IQFISH Assays for Dako Omnis

ISH on Dako Omnis

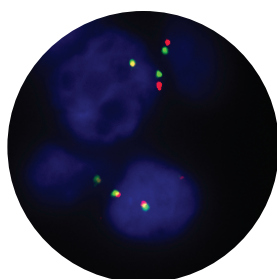
Dako Omnis, a fully automated, walk-away solution for advanced staining, can run both CISH and FISH tests with high efficiency, quality and flexibility. With the short CISH and FISH protocols, together with high slide and reagent capacity, Dako Omnis processes slides in an IHC-like turnaround time – fast.

IQFISH panel for lung cancer

The IQFISH panel for lung cancer enables the detection of rearrangements involving the *ALK*, *ROS1*, and *RET* genes, and the detection of *MET* gene amplification by FISH. The probes are designed using oligonucleotide-based SureFISH technology and utilize the formamide-free IQFISH Fast Hybridization Buffer. The probes are for use on FFPE lung tissue sections and are provided ready-to-use (RTU) in Dako Omnis vials.

Target	Part number	Description	Probe type	Fluorochrome	Size	Regulatory status
ALK	G111800-2	ALK IQFISH Break-Apart Probe (Dako Omnis)	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
ROS1	G111801-2	ROS1 IQFISH Break-Apart Probe (Dako Omnis)	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
RET	G111802-2	RET IQFISH Break-Apart Probe (Dako Omnis)	Break Apart	Cy3/FITC	RTU, 20 tests	IVD
MET/CEP 7	G111803-2	MET IQFISH Probe with CEP 7 (Dako Omnis)	Copy Number	Cy3/FITC	RTU, 20 tests	IVD

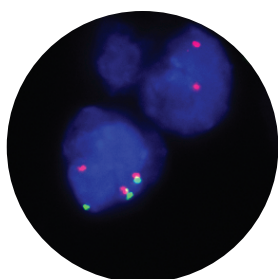
ALK IQFISH Break-Apart Probe
(Dako Omnis)



FFPE sample stained with ALK IQFISH dual color, break-apart probe

Cells show *ALK* gene rearrangement.

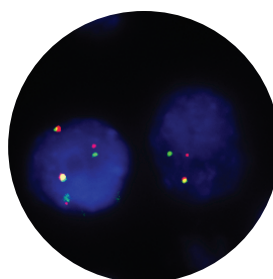
ROS1 IQFISH Break-Apart Probe
(Dako Omnis)



FFPE sample stained with ROS1 IQFISH dual color, break-apart probe

Cells show *ROS1* gene rearrangement.

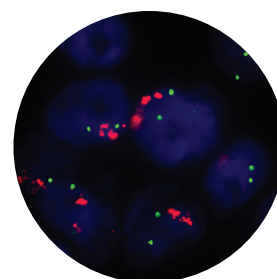
RET IQFISH Break-Apart Probe
(Dako Omnis)



FFPE sample stained with RET IQFISH dual color, break-apart probe

Cells show *RET* gene rearrangement.

MET IQFISH Probe with CEP7
(Dako Omnis)



FFPE sample stained with MET/CEP7 IQFISH amplification probe

Cells show *MET* gene amplification.

HER2 IQFISH pharmDx

Agilent offers a fully automated *HER2* IQFISH assay on Dako Omnis for breast and gastric *HER2* FISH diagnostic assays in labs. *HER2* IQFISH pharmDx (Dako Omnis) is the hybridization probe for the automated direct fluorescence in situ hybridization (FISH) assay onboard Dako Omnis instruments and is, together with accessory reagent devices, designed to quantitatively determine *HER2* gene amplification in formalin-fixed, paraffin-embedded (FFPE) **breast cancer** tissue specimens and **adenocarcinoma of the stomach including gastro-esophageal junction**. *HER2* IQFISH pharmDx (Dako Omnis), is indicated in adjunction to HercepTest™ in the assessment of patients for whom Herceptin™ (trastuzumab) treatment is being considered.

Target	Part number	Description	Probe type	Fluorochrome	Size	Regulatory status
HER2	GM33311-2	<i>HER2</i> IQFISH pharmDx (Dako Omnis)	Copy Number	Cy3/FITC	RTU, 20 tests	IVD

CISH Assays — EBER, kappa, lambda, and control 28S

The CISH probes and associated detection reagents enable automated chromogenic visualization of Epstein-Barr virus (EBV) RNA, kappa and lambda mRNA expression on FFPE tissue samples, and 28S Control RNA probe. The probes combine Agilent's oligonucleotide-based technology and formamide-free IQFISH hybridization buffer. IQFISH hybridization buffer enables CISH results in about 5 hours. The CISH probes are provided ready-to-use (RTU) in Dako Omnis vials.

Target	Part number	Description	Probe type	Size	Regulatory status
Kappa/Lambda	G111700-2	Kappa and Lambda mRNA CISH (Dako Omnis)	CISH	RTU, 20 tests	IVD
EBER	G111701-2	EBER RNA CISH (Dako Omnis)	CISH	RTU, 20 tests	IVD
28S	G111702-2	Positive Control RNA CISH (Dako Omnis)	CISH	RTU, 20 tests	IVD

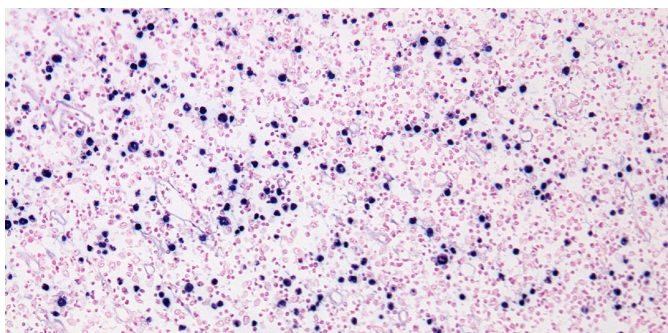


Figure 6. FFPE sample stained with EBER probe.

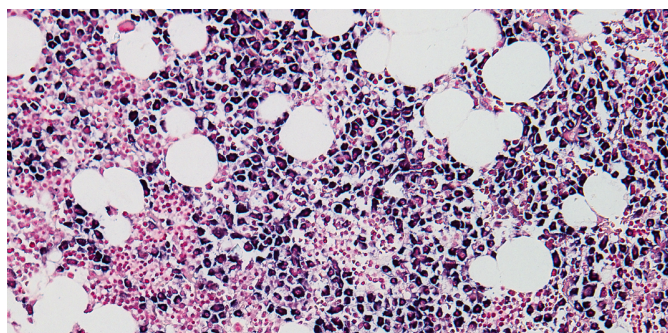


Figure 7. Bone marrow stained with Kappa probe.

CISH accessory Kit

The CISH probes and associated detection reagents enable the automated chromogenic visualization of mRNA expression on FFPE tissue samples. The probes combine Agilent's oligonucleotide-based technology and formamide-free IQFISH hybridization buffer. IQFISH hybridization buffer enables CISH results in about 5 hours.

An accessory kit is required for the chromogenic visualization on Dako Omnis. The kit includes CISH Endogenous Enzyme block, Anti-FITC-AP, BCIP-NBT Substrate, and Nuclear Fast Red.

Part number	Description	Test type	Kit size	Regulatory status
K589911-2	Anti-FITC/AP CISH Accessory Kit (Dako Omnis)	CISH	40 tests	IVD

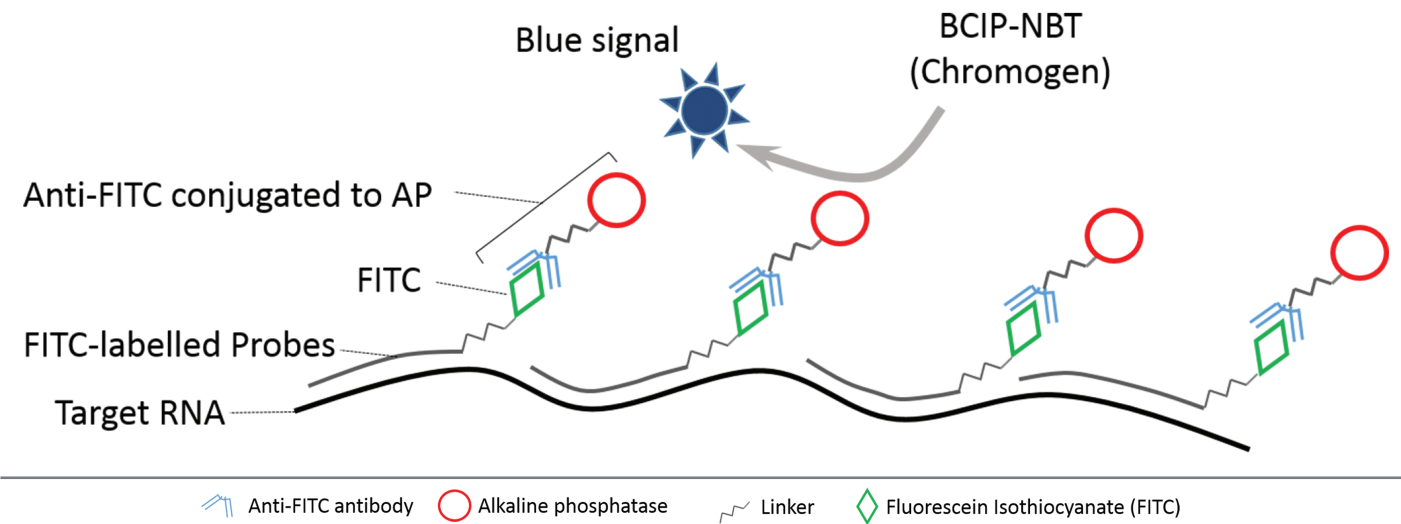


Figure 8. Schematic of method for detection of FITC-labeled probes. Anti-FITC-AP: Alkaline phosphatase-conjugated antibody to fluorescein. BCIP-NBT substrate: 5-bromo-4-chloro-3-indolylphosphate (BCIP) and nitroblue tetrazolium (NBT).

Accessories for Dako Omnis ISH assays

Accessories needed to perform FISH on Dako Omnis

Part number	Description	Size	Regulatory status
GM30211-2	ISH Pepsin (Dako Omnis)	20 tests, 7 mL	IVD
GM30011-2	ISH Ethanol Solution 96 (Dako Omnis)	20 tests, 14 mL	IVD
GM30111-2	ISH Pre-Treatment Solution (Dako Omnis)	175 mL, 5–25 tests	IVD
GM30311-2	ISH Stringent Wash Buffer (Dako Omnis)	175 mL, 5–25 tests	IVD
GM30411-2	Fluorescence Mounting Medium (Dako Omnis)	0.8 mL, 20–40 tests	IVD
GC20730-2	ISH Cleaning Solution (Dako Omnis)	10 mL, 100 tests	IVD
GC10230	Dako Omnis ISH Lid	Box of five	IVD
GC11630	Dako Omnis Mixing Device	One mixer	IVD
GC20630-7	Dako Omnis Vial with Mixing Ball, 2 mL*	Box of 25	IVD

*Only to be used with concentrated probes



Figure 9. Dako Omnis ISH ancillaries.



Figure 10. Dako Omnis Mixing Device.

SureFISH Probes (Research Use Only)

SureFISH paired probes

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
PML-RARA	G110425-8	SureFISH PML-RARA DF P20	Dual Fusion	Cy3/FITC	20	RUO
IGH/MYC	G111425-8	SureFISH IGH MYC DF P20	Dual Fusion	Cy3/FITC	20	RUO
IGH/BCL2	G111426-8	SureFISH IGH BCL2 DF P20	Dual Fusion	Cy3/FITC	20	RUO
IGH/CCND1	G111442-8	SureFISH IGH CCND1 DF P20	Dual Fusion	Cy3/FITC	20	RUO

SureFISH concentrated probes (20 μL)

Break-apart probes

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
ABL1	G110420G-8	SureFISH 9q34.12 ABL1 3' BA 350 kb P20 GR	Break Apart	FITC	20	RUO
	G110419R-8	SureFISH 9q34.11 ABL1 5' BA 350 kb P20 RD		Cy3	20	
ABL2	G110418G-8	SureFISH 1q25.2 ABL2 3' BA 464 kb P20 GR	Break Apart	FITC	20	RUO
	G110417R-8	SureFISH 1q25.2 ABL2 5' BA 571 kb P20 RD		Cy3	20	
ALK	G110992G-8	SureFISH 2p23 ALK 5'BA 599 kb P20 GR	Break Apart	FITC	20	RUO
	G110387R-8	SureFISH 2p23 ALK 3'BA 300 kb P20 RD		Cy3	20	
BCL2	G110989G-8	SureFISH 18q21 BCL2 5' BA 598 kb P20 GR	Break Apart	FITC	20	RUO
	G110988R-8	SureFISH 18q21 BCL2 3' BA 389 kb P20 RD		Cy3	20	
BCL3	G110290G-8	SureFISH 19q13.32 BCL3 3' BA 451 kb P20 GR	Break Apart	FITC	20	RUO
	G110289R-8	SureFISH 19q13.31 BCL3 5' BA 305 kb P20 RD		Cy3	20	
BRAF	G110400G-8	SureFISH 7q34 BRAF 5' BA 510 kb P20 GR	Break Apart	FITC	20	RUO
	G110399R-8	SureFISH 7q34 BRAF 3' BA 414 kb P20 RD		Cy3	20	
CBFB	G110245G-8	SureFISH 16q22.1 CBFB 3' BA 284 kb P20 GR	Break Apart	FITC	20	RUO
	G110244R-8	SureFISH 16q22.1 CBFB 5' BA 240 kb P20 RD		Cy3	20	
CHIC2 FIP1L1 PDGFRA	G110305R-8	SureFISH 4q12 CHIC2 469 kb P20 RD	Break Apart	FITC	20	RUO
	G110439G-8	SureFISH 4q12 FIP1L1 TC 500 kb P20 GR		Cy3	20	
	G110827B-8	SureFISH 4q12 PDGFRA TC 481 kb P20 BL		Aqua	20	
CIC	G110204G-8	SureFISH 19q13.2 CIC 5' BA 619 kb P20 GR	Break Apart	FITC	20	RUO
	G110203R-8	SureFISH 19q13.2 CIC 3' BA 239 kb P20 RD		Cy3	20	
CRLF2	G110980G-8	SureFISH Xp22/Yp11 CRLF2 5' BA P20 GR	Break Apart	FITC	20	RUO
	G110979R-8	SureFISH Xp22/Yp11 CRLF2 3' BA P20 RD		Cy3	20	
CSF1R	G110410G-8	SureFISH 5q32 CSF1R 3' BA 402 kb P20 GR	Break Apart	FITC	20	RUO
	G110411R-8	SureFISH 5q32 CSF1R 5' BA 465 kb P20 RD		Cy3	20	
C11orf95	G110476G-8	SureFISH 11q13.1 C11orf95 5' BA 504 kb P20 GR	Break Apart	FITC	20	RUO
	G110477R-8	SureFISH 11q13.1 C11orf95 3' BA 316 kb P20 RD		Cy3	20	
DDIT3	G110982G-8	SureFISH 12q13 DDIT3 3' BA 537 kb P20 GR	Break Apart	FITC	20	RUO
	G110983R-8	SureFISH 12q14 DDIT3 5' BA 498 kb P20 RD		Cy3	20	
DUSP22-IRF4	G110713G-8	SureFISH 6p25.3 DUSP22-IRF4 3' 235 kb P20 GR	Break Apart	FITC	20	RUO
	G110712R-8	SureFISH 6p25.3 DUSP22-IRF4 5' 48 kb P20 RD		Cy3	20	
EPOR	G110413G-8	SureFISH 19p13.2 EPOR 5' BA 291 kb P20 GR	Break Apart	FITC	20	RUO
	G110412R-8	SureFISH 19p13.2 EPOR 3' BA 299 kb P20 RD		Cy3	20	
ERG TMPRSS22	G110816G-8	SureFISH 21q22.2 ERG 5' BA 552 kb P20 GR	Break Apart	FITC	20	RUO
	G110802R-8	SureFISH 21q22.13 ERG 3' BA 426 kb P20 RD		Cy3	20	
	G110820B-8	SureFISH 21q22.3 TMPRSS2 5' TC 529 kb BL		Aqua	20	
ETV6	G110274G-8	SureFISH 12p13.2 ETV6 5' BA 460 kb P20 GR	Break Apart	FITC	20	RUO
	G110273R-8	SureFISH 12p13.2 ETV6 3' BA 384 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
EWSR1	G110456G-8	SureFISH 22q12.2 EWSR1 5' BA 564 kb P20 GR	Break Apart	FITC	20	RUO
	G110392R-8	SureFISH 22q12.2 EWSR1 3' BA 263 kb P20 RD		Cy3	20	
FGFR1	G110469G-8	SureFISH 8p11.23 FGFR1 3' BA 393 kb P20 GR	Break Apart	FITC	20	RUO
	G110470R-8	SureFISH 8p11.22 FGFR1 5' BA 515 kb P20 RD		Cy3	20	
FGFR2	G110726G-8	SureFISH 10q26.12 FGFR2 3' BA 400 kb P20 GR	Break Apart	FITC	20	RUO
	G110725R-8	SureFISH 10q26.13 FGFR2 5' BA 400 kb P20 RD		Cy3	20	
FGFR3	G110471G-8	SureFISH 4p16.3 FGFR3 3' BA 373 kb P20 GR	Break Apart	FITC	20	RUO
	G110472R-8	SureFISH 4p16.3 FGFR3 5' BA 316 kb P20 RD		Cy3	20	
FLT3	G110326G-8	SureFISH 13q12.2 FLT3 5' BA 496 kb P20 GR	Break Apart	FITC	20	RUO
	G110325R-8	SureFISH 13q12.2 FLT3 3' BA 428 kb P20 RD		Cy3	20	
FOSB	G110474G-8	SureFISH 19q13.32 FOSB 5' BA 430 kb P20 GR	Break Apart	FITC	20	RUO
	G110475R-8	SureFISH 19q13.32 FOSB 3' BA 619 kb P20 RD		Cy3	20	
FOXO1	G110986G-8	SureFISH 13q14.11 FOXO1 3' BA 600 kb P20 GR	Break Apart	FITC	20	RUO
	G110987R-8	SureFISH 13q14.11 FOXO1 5' BA 601 kb P20 RD		Cy3	20	
IGK	G110732G-8	SureFISH 2p11.2 IGK 5' BA 1063 kb P20 GR	Break Apart	FITC	20	RUO
	G110731R-8	SureFISH 2p11.2 IGK 3' BA 252 kb P20 RD		Cy3	20	
IGL	G110729G-8	SureFISH 22q11.22 IGL 5' BA 946 kb P20 GR	Break Apart	FITC	20	RUO
	G110730R-8	SureFISH 22q11.22 IGL 3' BA 343 kb P20 RD		Cy3	20	
JAK2	G110201G-8	SureFISH 9p24.1 JAK2 3' BA 503 kb P20 GR	Break Apart	FITC	20	RUO
	G110200R-8	SureFISH 9p24.1 JAK2 5' BA 286 kb P20 RD		Cy3	20	
MECOM	G110447G-8	SureFISH 3q26.2 MECOM 3' BA 451kb P20 GR	Break Apart	FITC	20	RUO
	G110361R-8	SureFISH 3q26.2 MECOM 5' BA 408 kb P20 RD		Cy3	20	
	G110806B-8	SureFISH 3q26.2 MECOM 5' TC 437 kb P20 BL		Aqua	20	
MEIS1	G110237G-8	SureFISH 2p14 MEIS1 5' BA 300 kb P20 GR	Break Apart	FITC	20	RUO
	G110236R-8	SureFISH 2p14 MEIS1 3' BA 300 kb P20 RD		Cy3	20	
MGEA5	G110429G-8	SureFISH 10q24.32 MGEA5 3' BA 743 kb P20 GR	Break Apart	FITC	20	RUO
	G110209R-8	SureFISH 10q24.32 MGEA5 5' BA 353 kb P20 RD		Cy3	20	
MLL	G110254G-8	SureFISH 11q23 MLL 5' BA 497 kb P20 GR	Break Apart	FITC	20	RUO
	G110253R-8	SureFISH 11q23 MLL 3' BA 199 kb P20 RD		Cy3	20	
MLLT10	G110705G-8	SureFISH 10P12.31 MLLT10 5' BA 673 kb P20 GR	Break Apart	FITC	20	RUO
	G110704R-8	SureFISH 10p12.31 MLLT10 3' BA 465 kb P20 RD		Cy3	20	
MYC	G110458G-8	SureFISH 8q24.21 MYC 5' BA 632 kb P20 GR	Break Apart (Tricolor)	FITC	20	RUO
	G110395R-8	SureFISH 8q24.21 MYC 3' BA 432 kb P20 RD		Cy3	20	
	G110830B-8	SureFISH 8q24.21 MYC 3' TC 398 kb P20 BL		Aqua	20	
NCOA2	G110223G-8	SureFISH 8q13.3 NCOA2 3' BA 608 kb P20 GR	Break Apart	FITC	20	RUO
	G110222R-8	SureFISH 8q13.3 NCOA2 5' BA 258 kb P20 RD		Cy3	20	
NRG1	G110219G-8	SureFISH 8p12 NRG1 5' BA 460 kb P20 GR	Break Apart	FITC	20	RUO
	G110218R-8	SureFISH 8p12 NRG1 3' BA 248 kb P20 RD		Cy3	20	
NTRK1	G110430G-8	SureFISH 1q23.1 NTRK1 5' BA 182 kb P20 GR	Break Apart	FITC	20	RUO
	G110214R-8	SureFISH 1q23.1 NTRK1 3' BA 140 kb P20 RD		Cy3	20	
	G110719G-8	SureFISH 1q23.1 NTRK1 5' BA 478 kb P20 GR		FITC	20	
	G110720R-8	SureFISH 1q23.1 NTRK1 3' BA 380 kb P20 RD		Cy3	20	
NTRK2	G110721G-8	SureFISH 9q21.33 NTRK2 5' BA 406 kb P20 GR	Break Apart	FITC	20	RUO
	G110722R-8	SureFISH 9q 21.33 NTRK2 3' BA 445 kb P20 RD		Cy3	20	
NTRK3	G110431G-8	SureFISH 15q25.3 NTRK3 5' 373 kb P20 GR	Break Apart	FITC	20	RUO
	G110215R-8	SureFISH 15q25.3 NTRK3 3' 390 kb P20 RD		Cy3	20	
	G110723G-8	SureFISH 15q25.3 NTRK3 5' BA 481 kb P20 GR		FITC	20	
	G110724R-8	SureFISH 15q25.3 NTRK3 3' BA 435 kb P20 RD		Cy3	20	
NUP214	G110323G-8	SureFISH 9q34.13 NUP214 5' BA 548 kb P20 GR	Break Apart	FITC	20	RUO
	G110322R-8	SureFISH 9q34.13 NUP214 3' BA 447 kb P20 RD		Cy3	20	
NUP98	G110441G-8	SureFISH 11p15.4 NUP98 5' BA 416 kb P20 GR	Break Apart	FITC	20	RUO
	G110718R-8	SureFISH 11p15.4 NUP98 3' BA 359 kb P20 RD		Cy3	20	
	G110309R-8	SureFISH 11p15.4 NUP98 3' BA 132 kb P20 RD		Cy3	20	
PAX3	G110206G-8	SureFISH 2q36.1 PAX3 3' BA 575 kb P20 GR	Break Apart	FITC	20	RUO
	G110205R-8	SureFISH 2q36.1 PAX3 5' BA 285 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
PAX5	G110367G-8	SureFISH 9p13.2 PAX5 3' BA 621 kb P20 GR	Break Apart	FITC	20	RUO
	G110366R-8	SureFISH 9p13.2 PAX5 5' BA 354 kb P20 RD		Cy3	20	
PDGFB	G110404G-8	SureFISH 5q32 PDGFRB 5' BA 435 kb P20 GR	Break Apart	FITC	20	RUO
	G110405R-8	SureFISH 5q32 PDGFRB 3' BA 354 kb P20 RD		Cy3	20	
PDGFD	G110407G-8	SureFISH 11q22.3 PDGFD 5' BA 350 kb P20 GR	Break Apart	FITC	20	RUO
	G110406R-8	SureFISH 11q22.3 PDGFD 3' BA 350 kb P20 RD		Cy3	20	
PDGFRB	G110304G-8	SureFISH 5q32 PDGFRB 5' BA 435 kb P20 GR	Break Apart	FITC	20	RUO
	G110303R-8	SureFISH 5q32 PDGFRB 3' BA 354 kb P20 RD		Cy3	20	
PHF1	G110235G-8	SureFISH 6p21.32 PHF1 3' BA 616 kb P20 GR	Break Apart	FITC	20	RUO
	G110234R-8	SureFISH 6p21.32 PHF1 5' BA 355 kb P20 RD		Cy3	20	
PLAG1	G110227G-8	SureFISH 8q12.1 PLAG1 5' BA 625 kb P20 GR	Break Apart	FITC	20	RUO
	G110226R-8	SureFISH 8q12.1 PLAG1 3' BA 295 kb P20 RD		Cy3	20	
PPARG	G110728G-8	SureFISH 3p25.2 PPARG 3' BA 400 kb P20 GR	Break Apart	FITC	20	RUO
	G110727R-8	SureFISH 3p25.2 PPARG 5' BA 398 kb P20 RD		Cy3	20	
RARA	G110452G-8	SureFISH 17q21.1 RARA 5' BA 600 kb P20 GR	Break Apart	FITC	20	RUO
	G110282R-8	SureFISH 17q21.2 RARA 3' BA 419 kb P20 RD		Cy3	20	
ROS1	G110454G-8	SureFISH 6q22.1 ROS1 3' BA 1132 kb P20 GR	Break Apart	FITC	20	RUO
	G110389R-8	SureFISH 6q22.1 ROS1 5' BA 245 kb P20 RD		Cy3	20	
RUNX1	G110409G-8	SureFISH 21q22.12 RUNX1 5' BA 569 kb P20 GR	Break Apart	FITC	20	RUO
	G110408R-8	SureFISH 21q22.12 RUNX1 3' BA 563 kb P20 RD		Cy3	20	
SIL-TAL1	G110707G-8	SureFISH 1p33 SIL 3' BA 566 kb P20 GR	Break Apart	FITC	20	RUO
	G110706R-8	SureFISH 1p33 TAL1 5' BA 75 kb P20 RD		Cy3	20	
SS18 (SYT)	G110457G-8	SureFISH 18q11.2 SS18 3' BA 616 kb P20 GR	Break Apart	FITC	20	RUO
	G110394R-8	SureFISH 18q11.2 SS18 5' BA 406 kb P20 RD		Cy3	20	
TCL1	G110709G-8	SureFISH 14q32.2 TCL1 3' BA 504 kb P20 GR	Break Apart	FITC	20	RUO
	G110708R-8	SureFISH 14q32.13 TCL1 5' BA 361 kb P20 RD		Cy3	20	
TCRAD	G110364G-8	SureFISH 14q11.2 TCRAD 5' BA 468 kb P20 GR	Break Apart	FITC	20	RUO
	G110363R-8	SureFISH 14q11.2 TCRAD 3' BA 305 kb P20 RD		Cy3	20	
TFEB	G110243G-8	SureFISH 6p21.1 TFEB 3' BA 323 kb P20 GR	Break Apart	FITC	20	RUO
	G110242R-8	SureFISH 6p21.1 TFEB 5' BA 288 kb P20 RD		Cy3	20	
TFE3	G110460G-8	SureFISH Xp11.2 TFE3 3' BA 540 kb P20 GR	Break Apart	FITC	20	RUO
	G110459R-8	SureFISH Xp11.2 TFE3 5' BA 237 kb P20 RD		Cy3	20	
TGFB3	G110208G-8	SureFISH 1p22.1 TGFB3 5' BA 621 kb P20 GR	Break Apart	FITC	20	RUO
	G110207R-8	SureFISH 1p22.1 TGFB3 3' BA 402 kb P20 RD		Cy3	20	
TLX3	G110369G-8	SureFISH 5q35.1 TLX3 3' BA 416 kb P20 GR	Break Apart	FITC	20	RUO
	G110368R-8	SureFISH 5q35.1 TLX3 5' BA 325 kb P20 RD		Cy3	20	
TP63	G110715G-8	SureFISH 3q28 TP63 3' BA 443 kb P20 GR	Break Apart	FITC	20	RUO
	G110714R-8	SureFISH 3q28 TP63 5' BA 372 kb P20 RD		Cy3	20	
TRB	G110701G-8	SureFISH 7q34 TRB 5' BA 583 kb P20 GR	Break Apart	FITC	20	RUO
	G110700R-8	SureFISH 7q34 TRB 3' BA 390 kb P20 RD		Cy3	20	
TRG	G110703G-8	SureFISH 7p14.1 TRG 5' BA 586 kb P20 GR	Break Apart	FITC	20	RUO
	G110702R-8	SureFISH 7p14.1 TRG 3' BA 349 kb P20 RD		Cy3	20	
USP6	G110711G-8	SureFISH 17p13.2 USP6 5' BA 400 kb P20 GR	Break Apart	FITC	20	RUO
	G110710R-8	SureFISH 17p13.2 USP6 3' BA 385 kb P20 RD		Cy3	20	
YWHAE	G110225G-8	SureFISH 17p13.3 YWHAE 3' BA 608 kb P20 GR	Break Apart	FITC	20	RUO
	G110224R-8	SureFISH 17p13.3 YWHAE 5' BA 261 kb P20 RD		Cy3	20	

SureFISH concentrated probes (20 µL)

Copy number and dual fusion probes

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
Chr. 1p/19q	G110385R-8	SureFISH 1p36.32 TPRG1L 332 kb P20 RD	Copy Number (Dual color)	Cy3	20	RUO
	G110891G-8	SureFISH 1q25.2 ABL2 600 kb P20 GR		FITC	20	
	G110386R-8	SureFISH 19q13.33 GLTSCR2 298 kb P20 RD		Cy3	20	RUO
	G110897G-8	SureFISH 19p13.2 ZNF443 513 kb P20 GR		FITC	20	
Chr.1p/19q	G110736B-8	SureFISH 1q25.2 ABL2 600 kb P20 BL	Copy Number (Tricolor)	Aqua	20	RUO
	G110385R-8	SureFISH 1p36.32 TPRG1L 332 kb P20 RD		Cy3	20	
	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
	G110735B-8	SureFISH 19p13.2 ZNF443 513 kb P20 BL		Aqua	20	RUO
	G110875G-8	SureFISH Chr19 CEP 527 kb P20 GR		FITC	20	
	G110386R-8	SureFISH 19q13.33 GLTSCR2 298 kb P20 RD		Cy3	20	
ABL	G110391R-8	SureFISH 9q34.12 ABL DF 640 kb P20 RD	Dual Fusion	Cy3	20	RUO
BCR	G110455G-8	SureFISH 22q11.23 BCR DF 1388 kb P20 GR		FITC	20	
ASS1	G110833B-8	SureFISH 9q34.11 ASS1 DF 367 kb P20 BL		Aqua	20	
AHR	G110403R-8	SureFISH 7p21.1 AHR 150 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 7	G110899G-8	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
AJAP1	G110754G-8	SureFISH 1p36 AJAP1 303 kb P20 GR	Copy Number	FITC	20	RUO
CEP1	G110261R-8	SureFISH Chr1 CEP 541 kb P20 RD		Cy3	20	
AR	G110228R-8	SureFISH Xq12 AR 216 kb P20 RD	Copy Number	Cy3	20	RUO
CEP X	G110862G-8	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	
ASPSCR1	G110435G-8	SureFISH 17q25.3 ASPSCR1 406 kb P20 GR	Copy Number	FITC	20	RUO
CEP 17	G110291R-8	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
ATM	G110360G-8	SureFISH 11q22.3 ATM 732 kb P20 GR		FITC	20	RUO
TP53	G110383R-8	SureFISH 17p13.1 TP53 120 kb P20 RD		Cy3	20	
D13S319	G110252R-8	SureFISH 13q14.2 D13S319 154 kb P20 RD	Copy Number	Cy3	20	RUO
CEP12	G110890G-8	SureFISH Chr12 CEP 704 kb P20 GR		FITC	20	
LAMP1	G110800B-8	SureFISH 13q34 LAMP1 598 kb P20 BL		Aqua	20	
ATM	G110251R-8	SureFISH 11q22.3 ATM 153 kb P20 RD	Copy Number	Cy3	20	RUO
CEP11	G110883G-8	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
BCL3	G110473R-8	SureFISH 19q13.32 BCL3 DF 565 kb P20 RD	Dual Fusion	Cy3	20	RUO
IGH	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
BCL9	G110351R-8	SureFISH 1q21.2 BCL9 99 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 1	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
BCL11A	G110752R-8	SureFISH 2p16.1 BCL11A 102 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 2	G110889G-8	SureFISH Chr2 CEP 448 kb P20 GR		FITC	20	
BCOR	G110432G-8	SureFISH Xp11.4 BCOR 1009 kb P20 GR	Copy Number	FITC	20	RUO
CEP X	G110259R-8	SureFISH ChrX CEP 587 kb P20 RD		Cy3	20	
BIRC3	G110373R-8	SureFISH 11q22.2 BIRC3 DF 674 kb P20 RD	Dual Fusion	Cy3	20	RUO
MALT1	G110374G-8	SureFISH 18q21.32 MALT1 DF 672 kb P20 GR		FITC	20	
BRAF	G110258R-8	SureFISH 7q34 BRAF 227 kb P20 RD	Dual Fusion	Cy3	20	RUO
KIAA1549	G110750G-8	SureFISH 7q34 KIAA1549 150 kb P20 GR		FITC	20	
CAMTA1	G110216R-8	SureFISH 1p36.23 CAMTA1 DF 647 kb P20 RD	Dual Fusion	Cy3	20	RUO
WWTR1	G110217G-8	SureFISH 3q25.1 WWTR1 DF 619 kb P20 GR		FITC	20	
CBFB	G110422G-8	SureFISH 16q22.1 CBFB DF 498 kb P20 GR	Dual Fusion	FITC	20	RUO
MYH11	G110421R-8	SureFISH 16p13.1 MYH11 DF 445 kb P20 RD		Cy3	20	
CCNB3	G110480R-8	SureFISH Xp11.22 CCNB3 DF 683 kb P20 RD	Dual Fusion	Cy3	20	RUO
BCOR	G110423G-8	SureFISH Xp11.4 BCOR DF 1009 kb P20 GR		FITC	20	
CCND1	G110212R-8	SureFISH 11q13.3 CCND1 997 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 11	G110883G-8	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
CCND1	G110976G-8	SureFISH 11q13.2 CCND1 DF 577 kb P20 GR	Dual Fusion	FITC	20	RUO
	G110370R-8	SureFISH 11q13.2 CCND1 DF 577 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
CCND3 IGH	G110379R-8	SureFISH 6p21.1 CCND3 DF 678 kb P20 RD	Dual Fusion	Cy3	20	RUO
	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
CD160 CEP 1	G110745R-8	SureFISH 1q21.1 CD160 122 kb P20 RD	Copy Number	Cy3	20	RUO
	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
CDK4 CEP 12	G110978R-8	SureFISH 12q14.1 CDK4 308 kb P20 RD	Copy Number	Cy3	20	RUO
	G110890G-8	SureFISH Chr12 CEP 704 kb P20 GR		FITC	20	
CDKN2A	G110402G-8	SureFISH 9p21.3 CDKN2A 351 kb P20 GR	Copy Number	FITC	20	RUO
	G110402R-8	SureFISH 9p21.3 CDKN2A 351 kb P20 RD		Cy3	20	
	G110973Y-8	SureFISH 9p21.3 CDKN2A 351 kb P20 GO		Gold	20	
	G110221R-8	SureFISH 9p21.3 CDKN2A 57 kb P20 RD		Cy3	20	
	G110350R-8	SureFISH 9p21.3 CDKN2A 188 kb P20 RD		Cy3	20	
CEP 9	G110975G-8	SureFISH Chr9 CEP 367 kb P20	Copy Number	FITC	20	RUO
	G110266R-8			Cy3	20	
	G110869B-8			Aqua	20	
CDKN2C	G110858G-8	SureFISH 1p32.3 CDKN2C 426 kb P20 GR	Copy Number	FITC	20	RUO
	G110376R-8	SureFISH 1p32.3 CDKN2C 153 kb P20 RD		Cy3	20	
CKS1B	G110324R-8	SureFISH 1q21.3 CKS1B 386 kb P20 RD	Copy Number	Cy3	20	RUO
	G110324G-8	SureFISH 1q21.3 CKS1B 386 kb P20 GR		FITC	20	
CHRNA7 CEP 15	G110743R-8	SureFISH 15q13.3 CHRNA7 123 kb P20 RD	Copy Number	Cy3	20	RUO
	G110872G-8	SureFISH Chr15 CEP 265 kb P20 GR		FITC	20	
COL1A1 PDGFB	G110733R-8	SureFISH 17q21.33 COL1A1 DF 789 kb P20 RD	Dual Fusion	Cy3	20	RUO
	G110734G-8	SureFISH 22q13.1 PDGFB DF 919 kb P20 GR		FITC	20	
D13S25 LAMP1	G110377R-8	SureFISH 13q14.3 D13S25 197 kb P20 RD	Copy Number	Cy3	20	RUO
	G110800G-8	SureFISH 13q34 LAMP1 598 kb P20 GR		FITC	20	
D15S11 CEP 15	G110297R-8	SureFISH 15q11.2 D15S11 135 kb P20 RD	Copy Number	Cy3	20	RUO
	G110872G-8	SureFISH Chr15 CEP 265 kb P20 GR		FITC	20	
D20S108 CEP 20	G110247R-8	SureFISH D20S108 20q12 200 kb P20 RD	Copy Number	Cy3	20	RUO
	G110886G-8	SureFISH Chr20 CEP 687 kb P20 GR		FITC	20	
D5S630 EGR1	G110437G-8	SureFISH 5p15.31 D5S630 370 kb P20 GR	Copy Number	FITC	20	RUO
	G110249R-8	SureFISH 5q31.2 EGR1 184 kb P20 RD		Cy3	20	
D7S486 CEP 7	G110246R-8	SureFISH 7q31.2 D7S486 200 kb P20 RD	Copy Number	Cy3	20	RUO
	G110899G-8	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
DSCR8 RB1	G110285R-8	SureFISH 21q22.13 DSCR8 494 kb P20 RD	Copy Number	Cy3	20	RUO
	G110283G-8	SureFISH 13q14.2 RB1 522 kb P20 GR		FITC	20	
EGFR CEP 7	G110321R-8	SureFISH 7p11.2 EGFR 188 kb P20 RD	Copy Number	Cy3	20	RUO
	G110899G-8	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
ELN-LIMK1 CEP 7	G110744R-8	SureFISH 7q11.23 ELN-LIMK1 104 kb P20 RD	Copy Number	Cy3	20	RUO
	G110899G-8	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
ENO1 CEP 1	G110213R-8	SureFISH 1p36.23 ENO1 763 kb P20 RD	Copy Number	Cy3	20	RUO
	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
ETV6 RUNX1	G110229R-8	SureFISH 12p13.2 ETV6 DF 505 kb P20 RD	Dual Fusion	Cy3	20	RUO
	G110230G-8	SureFISH 21q22.12 RUNX1 DF 672 kb P20 GR		FITC	20	
EWSR1 FLI1	G110463G-8	SureFISH 22q12.2 EWSR1 DF 740 kb P20 GR	Dual Fusion	FITC	20	RUO
	G110464R-8	SureFISH 11q24.3 FLI1 DF 770 kb P20 RD		Cy3	20	
EXT2 CEP 11	G110330R-8	SureFISH 11p11.2 EXT2 56 kb P20 RD	Copy Number	Cy3	20	RUO
	G110883G-8	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
FGFR1 CEP 8	G110397R-8	SureFISH 8p11 FGFR1 325 kb P20 RD	Copy Number	Cy3	20	RUO
	G110834G-8	SureFISH Chr8 CEP 635 kb P20 GR		FITC	20	
FGFR2 CEP 10	G110981R-8	SureFISH 10q26 FGFR2 360 kb P20 RD	Copy Number	Cy3	20	RUO
	G110884G-8	SureFISH Chr10 CEP 676 kb P20 GR		FITC	20	
FGFR3 IGH	G110301R-8	SureFISH 4p16.3 FGFR3 DF 623 kb P20 RD	Dual Fusion	Cy3	20	RUO
	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
GABRB3 CEP 15	G110298R-8	SureFISH 15q12 GABRB3 230 kb P20 RD	Copy Number	Cy3	20	RUO
	G110872G-8	SureFISH Chr15 CEP 265 kb P20 GR		FITC	20	
GATA4 CEP 8	G110749R-8	SureFISH 8p23.1 GATA4 118 kb P20 RD	Copy Number	Cy3	20	RUO
	G110834G-8	SureFISH Chr8 CEP 635 kb P20 GR		FITC	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
HER2	G110969G-8	SureFISH 17q12 HER2 191 kb P20 GR	Copy Number	FITC	20	RUO
CEP 17	G110972B-8	SureFISH Chr17 CEP 436 kb P20 BL		Aqua	20	
RAI1	G110384R-8	SureFISH 17p11.2 RAI1 263 kb P20 RD		Cy3	20	
HER2	G110390R-8	SureFISH 17q12 HER2 191 kb P20 RD		Cy3	20	
CEP 17	G110972B-8	SureFISH Chr17 CEP 436 kb P20 BL		Aqua	20	
RAI1	G110384G-8	SureFISH 17p11.2 RAI1 263 kb P20 GR		FITC	20	
HEY1	G110288G-8	SureFISH 8q21.13 HEY1 DF 774 kb P20 GR	Dual Fusion	FITC	20	RUO
NCOA2	G110287R-8	SureFISH 8q13.3 NCOA2 DF 700 kb P20 RD		Cy3	20	
IGF2-TH	G110746R-8	SureFISH 11p15.5 IGF2-TH 100 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 11	G110883G-8	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
IGH	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR	Dual Fusion	FITC	20	RUO
IGK	G110415G-8	SureFISH 2p11.2 IGK DF 1966 kb P20 GR	Dual Fusion	FITC	20	RUO
IGL	G110416G-8	SureFISH 22q11.22 IGL DF 1776 kb P20 GR		FITC	20	
MYC	G110414R-8	SureFISH 8q24.21 MYC DF 2726 kb P20 RD		Cy3	20	
IKZF1	G110220R-8	SureFISH 7p12.2 IKZF1 62 kb P20 RD	Copy Number	Cy3	20	RUO
	G110398R-8	SureFISH 7p12.2 IKZF1 128 kb P20 RD		Cy3	20	
	G110302R-8	SureFISH 7p12.2 IKZF1 50 kb P20 RD		Cy3	20	
CEP 7	G110899G-8	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
JAG1	G110231R-8	SureFISH 20p12.2 JAG1 152 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 20	G110886G-8	SureFISH Chr20 CEP 687 kb P20 GR		FITC	20	
KAL1	G110299R-8	SureFISH Xp22.31 KAL1 186 kb P20 RD	Copy Number	Cy3	20	RUO
CEP X	G110862G-8	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	
KANSL1	G110433G-8	SureFISH 17q21.31 KANSL1 186 kb P20 GR	Copy Number	FITC	20	RUO
CEP 17	G110291R-8	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
KCTD13	G110362R-8	SureFISH 16p11.2 KCTD13 548 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 16	G110873G-8	SureFISH Chr16 CEP 671 kb P20 GR		FITC	20	
KIT	G110257R-8	SureFISH 4q12 KIT 155 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 4	G110866G-8	SureFISH Chr4 CEP 613 kb P20 GR		FITC	20	
KRAS	G110372R-8	SureFISH 12p12.1 KRAS 354 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 12	G110890G-8	SureFISH Chr12 CEP 704 kb P20 GR		FITC	20	
MAF	G110380R-8	SureFISH 16q23.2 MAF DF 850 kb P20 RD	Dual Fusion	Cy3	20	RUO
IGH	G110388R-8	SureFISH 16q23.2 MAF DF 604 kb P20 RD		Cy3	20	
	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
MAFB	G110378R-8	SureFISH 20q12 MAFB DF 803 kb P20 RD	Dual Fusion	Cy3	20	RUO
IGH	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
MAML2	G110478R-8	SureFISH 11q21 MAML2 DF 496 kb P20 RD	Dual Fusion	Cy3	20	RUO
CRTC1	G110479G-8	SureFISH 19p13.11 CRTC1 DF 500 kb P20 GR		FITC	20	
MALAT1	G110239R-8	SureFISH 11q13.1 MALAT1 328 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 11	G110883G-8	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
MALT1	G110374R-8	SureFISH 18q21.32 MALT1 DF 672 kb P20 RD	Dual Fusion	Cy3	20	RUO
IGH	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
MAPT	G110748G-8	SureFISH 17q21.31 MAPT 373 kb P20 GR	Copy Number	FITC	20	RUO
CEP 17	G110291R-8	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
MDM2	G110393R-8	SureFISH 12q15 MDM2 180 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 12	G110890G-8	SureFISH Chr12 CEP 704 kb P20 GR		FITC	20	
MECOM	G110451G-8	SureFISH 3q26.2 MECOM DF 1209 kb P20 GR	Dual Fusion	FITC	20	RUO
RPN1	G110382R-8	SureFISH 3q21.3 RPN1 DF 558 kb P20 RD		Cy3	20	
MECP2	G110739R-8	SureFISH Xq28 MECP2 83 kb P20 RD	Copy Number	Cy3	20	RUO
CEP X	G110862G-8	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	
MET	G110994R-8	SureFISH 7q31.2 MET 400 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 7	G110899G-8	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
MLL3	G110757G-8	SureFISH 7q36.1 MLL3 129 kb P20 GR	Copy Number	FITC	20	RUO
CEP 7	G110286R-8	SureFISH Chr7 CEP 767 kb P20 RD		Cy3	20	
MMP7	G110240R-8	SureFISH 11q22.2 MMP7 312 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 11	G110883G-8	SureFISH Chr 11 CEP 798 kb P20 GR		FITC	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
MORN-TNRSF14	G110753G-8	SureFISH 1p36 MORN1-TNFRSF14 297 kb P20 GR	Copy Number	FITC	20	RUO
	G110753R-8	SureFISH 1p36 MORN1-TNFRSF14 297 kb P20 RD		Cy3	20	
CEP 1	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR	Copy Number	FITC	20	RUO
	G110261R-8	SureFISH Chr1 CEP 541 kb P20 RD		Cy3	20	
MYB	G110426R-8	SureFISH 6q23 MYB 251 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 6	G110899G-8	SureFISH Chr6 CEP 706 kb P20 GR		FITC	20	
SEC63	G110449G-8	SureFISH 6q21 SEC63 241 kb P20 GR		FITC	20	
MYB	G110465R-8	SureFISH 6q23.3 MYB DF 500 kb P20 RD	Dual Fusion	Cy3	20	RUO
NFIB	G110466G-8	SureFISH 9p23 NFIB DF 500 kb P20 GR		FITC	20	
MYC	G110365R-8	SureFISH 8q24.21 MYC 294 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 8	G110977B-8	SureFISH 8q24.21 MYC 294 kb P20 BL		Aqua	20	
	G110834G-8	SureFISH Chr8 CEP 635 kb P20 GR		FITC	20	
MYC	G110396R-8	SureFISH 8q24.21 MYC DF 815 kb P20 RD	Dual Fusion	Cy3	20	RUO
CEP 8	G110970B-8	SureFISH 8q24.21 MYC DF 815 kb P20 BL		Aqua	20	
	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
MYC	G110396R-8	SureFISH 8q24.21 MYC DF 815 kb P20 RD	Dual Fusion	Cy3	20	RUO
BCL6	G110462G-8	SureFISH 3q27.3 BCL6 DF 785 kb P20 GR		FITC	20	
MYCN	G110751R-8	SureFISH 2p24.3 MYCN 277 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 2	G110889G-8	SureFISH Chr2 CEP 448 kb P20 GR		FITC	20	
NDE1-MYH11	G110747G-8	SureFISH 16p13.1 NDE1-MYH11 445 kb P20 GR	Copy Number	FITC	20	RUO
CEP 16	G110270R-8	SureFISH Chr16 CEP 671 kb P20 RD		Cy3	20	
NF1	G110434G-8	SureFISH 17q11.2 NF1 332 kb P20 GR	Copy Number	FITC	20	RUO
CEP 17	G110291R-8	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
NF2	G110756G-8	SureFISH 22q12.2 NF2 119 kb P20 GR	Copy Number	FITC	20	RUO
CEP 22	G110279R-8	SureFISH Chr22 CEP 668 kb P20 RD		Cy3	20	
NINL	G110306R-8	SureFISH 20p11.21 NINL 369 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 20	G110886G-8	SureFISH Chr20 CEP 687 kb P20 GR		FITC	20	
NOTCH1	G110759R-8	SureFISH 9q34.3 NOTCH1 156 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 9	G110975G-8	SureFISH Chr9 CEP 367 kb P20 GR		FITC	20	
NOTCH2	G110371R-8	SureFISH 1p12 NOTCH2 81 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 1	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
NPHP1	G110742R-8	SureFISH 2q13 NPHP1 124 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 2	G110889G-8	SureFISH Chr2 CEP 448 kb P20 GR		FITC	20	
NRAS	G110912R-8	SureFISH 1p13.2 NRAS 310 kb P5 RD	Copy Number	Cy3	5	RUO
CEP 1	G110831G-8	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
NSD1	G110755R-8	SureFISH 5q35 NSD1 240 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 5	G110375R-8	SureFISH 5q35.3 NSD1 321 kb P20 RD		Cy3	20	
	G110867G-8	SureFISH Chr5 CEP 633 kb P20 GR		FITC	20	
PAFAH1B1	G110256R-8	SureFISH 17p13.3 PAFAH1B1 149 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 17	G110993G-8	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	
PAX5	G110341R-8	SureFISH 9p13.2 PAX5 741 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 9	G110975G-8	SureFISH Chr9 CEP 367 kb P20 GR		FITC	20	
PAX8	G110467R-8	SureFISH 2q13 PAX8 DF 326 kb P20 RD	Dual Fusion	Cy3	20	RUO
PPARG	G110468G-8	SureFISH 3p25.2 PPARG DF 326 kb P20 GR		FITC	20	
PBX1	G110292R-8	SureFISH 1q23.3 PBX1 DF 603 kb P20 RD	Dual Fusion	Cy3	20	RUO
TCF3	G110293G-8	SureFISH 19p13.3 TCF3 DF 729 kb P20 GR		FITC	20	
PDGFRA	G110740R-8	SureFISH 4q12 PDGFRA-CN 155 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 4	G110866G-8	SureFISH Chr4 CEP 613 kb P20 GR		FITC	20	
PIK3CA	G110250R-8	SureFISH 3q26.32 PIK3CA 157 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 3	G110865G-8	SureFISH Chr3 CEP 592 kb P20 GR		FITC	20	
PMP22	G110342R-8	SureFISH 17p12 PMP22 458 kb P20 RD	Copy Number	Cy3	20	RUO
CEP 17	G110879B-8	SureFISH 17p12 PMP22 458 kb P20 BL		Aqua	20	
	G110993G-8	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
PRCC CEP 1	G110436G-8 G110261R-8	SureFISH 1q23.1 PRCC 451 kb P20 GR SureFISH Chr1 CEP 541 kb P20 RD	Copy Number	FITC Cy3	20 20	RUO
PTEN CEP 10	G110202R-8 G110884G-8	SureFISH 10q23.31 PTEN 160 kb P20 RD SureFISH Chr10 CEP 676 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
RB1 CEP 13	G110284R-8 G110870G-8	SureFISH 13q14.2 RB1 522 kb P20 RD SureFISH Chr13 CEP 454 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
RREB1 CEP 6	G110401R-8 G110868G-8	SureFISH 6p25.1 RREB1 638 kb P20 RD SureFISH Chr6 CEP 706 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
RREB1 MYB CCND1 CEP 6	G110401G-8 G110426X-8 G110212Y-8 G110868B-8	SureFISH 6p25.1 RREB1 638 kb P20 GR SureFISH 6q23 MYB 251 kb P20 TR SureFISH 11q13.3 CCND1 997 kb P20 GO SureFISH Chr6 CEP 706 kb P20 BL	Copy Number	FITC Texas Red Gold Aqua	20 20 20 20	RUO
RX1T1 RUNX1	G110294R-8 G110230G-8	SureFISH 8q21.3 RUNX1T1 DF 734 kb P20 RD SureFISH 21q22.12 RUNX1 DF 672 kb P20 GR	Dual Fusion	Cy3 FITC	20 20	RUO
SEC63 CEP 6	G110449G-8 G110265R-8	SureFISH 6q21 SEC63 241 kb P20 GR SureFISH Chr6 CEP 706 kb P20 RD	Copy Number	FITC Cy3	20 20	RUO
SHANK3 CEP 22	G110737G-8 G110279R-8	SureFISH 22q13.33 SHANK3 70 kb P20 GR SureFISH Chr22 CEP 668 kb P20 RD	Copy Number	FITC Cy3	20 20	RUO
SMAD6 CEP 15	G110758G-8 G110269R-8	SureFISH 15q22.31 SMAD6 182 kb P20 GR SureFISH Chr15 CEP 265 kb P20 RD	Copy Number	FITC Cy3	20 20	RUO
SMARCA4 CEP 19	G110233R-8 G110875G-8	SureFISH 19p13.2 SMARCA4 102 kb P20 RD SureFISH Chr19 CEP 527 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
SMARCB1 CEP 22	G110232R-8 G110888G-8	SureFISH 22q11.23 SMARCB1 98 kb P20 RD SureFISH Chr22 CEP 668 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
SNRPN CEP 15	G110328R-8 G110872G-8	SureFISH 15q11.2 SNRPN 232 kb P20 RD SureFISH Chr15 CEP 265 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
SPON2 CEP 4	G110327R-8 G110866G-8	SureFISH 4p16.3 SPON2 378 kb P20 RD SureFISH Chr4 CEP 613 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
SRY CEP Y	G110300R-8 G110863G-8	SureFISH Yp11.31 SRY 131 kb P20 RD SureFISH ChrY CEP 273 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
STIL CEP 1	G110238R-8 G110831G-8	SureFISH 1p33 STIL 75 kb P20 RD SureFISH Chr1 CEP 541 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
TBL1XR1 TP63	G110717G-8 G110716R-8	SureFISH 3q26.32 TBL1XR1 DF 846 kb P20 GR SureFISH 3q28 TP63 DF 760 kb P20 RD	Dual Fusion	FITC Cy3	20 20	RUO
TERC CEP 3	G110211R-8 G110865G-8	SureFISH 3q26 TERC 1014 kb P20 RD SureFISH Chr3 CEP 592 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
TERT CEP 5	G110210R-8 G110867G-8	SureFISH 5p15.33 TERT 1107 kb P20 RD SureFISH Chr5 CEP 633 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
TET2 CEP 4	G110741R-8 G110866G-8	SureFISH 4q24 TET2 133 kb P20 RD SureFISH Chr4 CEP 613 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
TFE3 CEP X	G110241R-8 G110862G-8	SureFISH Xp11.23 TFE3 523 kb P20 RD SureFISH ChrX CEP 587 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
TOP2A CEP 17	G110308R-8 G110993G-8	SureFISH 17q21.2 TOP2A 327 kb P20 RD SureFISH Chr17 CEP 436 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
TP53 CEP 17	G110383G-8 G110383R-8 G110428B-8 G110291R-8 G110993G-8	SureFISH 17p13.1 TP53 120 kb P20 GR SureFISH 17p13.1 TP53 120 kb P20 RD SureFISH 17p13.1 TP53 247 kb P20 BL SureFISH Chr17 CEP 436 kb P20 RD SureFISH Chr17 CEP 436 kb P20 GR	Copy Number	FITC Cy3 Aqua Cy3 FITC	20 20 20 20 20	RUO
TUPLE1 CEP 22	G110295R-8 G110993G-8	SureFISH 22q11.21 TUPLE1 101 kb P20 RD SureFISH Chr22 CEP 668 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO
WT1 CEP 11	G110738R-8 G110883G-8	SureFISH 11p13 WT1 89 kb P20 RD SureFISH Chr11 CEP 798 kb P20 GR	Copy Number	Cy3 FITC	20 20	RUO

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
XIST	G110296R-8	SureFISH Xq13.2 XIST 161 kb P20 RD	Copy Number	Cy3	20	RUO
CEP X	G110862G-8	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	
YWHAE	G110255R-8	SureFISH 17p13.3 YWHAE 172 kb P20 RD	Copy number	Cy3	20	RUO
CEP 17	G110993G-8	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	
ZNF217	G110440G-8	SureFISH 20q13.2 ZNF217 480 kb P20 GR	Copy Number	FITC	20	RUO
CEP20	G110277R-8	SureFISH Chr20 CEP 687 kb P20 RD		Cy3	20	

Centromere enumeration probes

Target	Part number	Description	Fluorochrome	Volume (µL)	Regulatory status
CEP 1	G110831G-8	SureFISH Chr1 CEP 541 kb	FITC	20	RUO
	G110261R-8		Cy3	20	
	G110864B-8		Aqua	20	
CEP 2	G110122G-8	SureFISH Chr2 CEP 448 kb	FITC	100	RUO
	G110889G-8		FITC	20	
	G110280R-8		Cy3	20	
	G110889B-8		Aqua	20	
CEP 3	G110865G-8	SureFISH Chr3 CEP 592 kb	FITC	20	RUO
	G110262R-8		Cy3	20	
	G110143X-8		Texas Red	100	
	G110974X-8		Texas Red	20	
	G110865B-8		Aqua	20	
CEP 4	G110866G-8	SureFISH Chr4 CEP 613 kb	FITC	20	RUO
	G110263R-8		Cy3	20	
	G110866B-8		Aqua	20	
CEP 5	G110867G-8	SureFISH Chr5 CEP 633 kb	FITC	20	RUO
	G110264R-8		Cy3	20	
	G110867B-8		Aqua	20	
CEP 6	G110868G-8	SureFISH Chr6 CEP 706 kb	FITC	20	RUO
	G110265R-8		Cy3	20	
	G110868B-8		Aqua	20	
CEP 7	G110119G-8	SureFISH Chr7 CEP 767 kb	FITC	100	RUO
	G110899G-8		FITC	20	
	G110286R-8		Cy3	20	
	G110899B-8		Aqua	20	
CEP 8	G110834G-8	SureFISH Chr8 CEP 635 kb	FITC	20	RUO
	G110248R-8		Cy3	20	
	G110834B-8		Aqua	20	
CEP 9	G110144G-8	SureFISH Chr9 CEP 367 kb	FITC	100	RUO
	G110975G-8		FITC	20	
	G110266R-8		Cy3	20	
	G110869B-8		Aqua	20	
CEP 10	G110124G-8	SureFISH Chr10 CEP 676 kb	FITC	100	RUO
	G110884G-8		FITC	20	
	G110276R-8		Cy3	20	
	G110884B-8		Aqua	20	

Target	Part number	Description	Fluorochrome	Volume (µL)	Regulatory status
CEP 11	G110883G-8	SureFISH Chr11 CEP 798 kb	FITC	20	RUO
	G110275R-8		Cy3	20	
	G110883B-8		Aqua	20	
CEP 12	G110109G-8	SureFISH Chr12 CEP 704 kb	FITC	100	RUO
	G110890G-8		FITC	20	
	G110281R-8		Cy3	20	
	G110890B-8		Aqua	20	
CEP 13	G110870G-8	SureFISH Chr13 CEP 454 kb	FITC	20	RUO
	G110267R-8		Cy3	20	
	G110870B-8		Aqua	20	
CEP 14	G110871G-8	SureFISH Chr14 CEP 536 kb	FITC	20	RUO
	G110268R-8		Cy3	20	
	G110871B-8		Aqua	20	
CEP 15	G110872G-8	SureFISH Chr15 CEP 265 kb	FITC	20	RUO
	G110269R-8		Cy3	20	
	G110872B-8		Aqua	20	
CEP 16	G110873G-8	SureFISH Chr16 CEP 671 kb	FITC	20	RUO
	G110270R-8		Cy3	20	
	G110873B-8		Aqua	20	
CEP 17	G110105G-8	SureFISH Chr17 CEP 436 kb	FITC	100	RUO
	G110993G-8		FITC	20	
	G110291R-8		Cy3	20	
	G110972B-8		Aqua	20	
	G110141B-8		Aqua	100	
CEP 18	G110874G-8	SureFISH Chr18 CEP 711 kb	FITC	20	RUO
	G110271R-8		Cy3	20	
	G110874B-8		Aqua	20	
CEP 19	G110875G-8	SureFISH Chr19 CEP 527 kb	FITC	20	RUO
	G110272R-8		Cy3	20	
	G110875B-8		Aqua	20	
CEP 20	G110886G-8	SureFISH Chr20 CEP 687 kb	FITC	20	RUO
	G110277R-8		Cy3	20	
	G110886B-8		Aqua	20	
CEP 21	G110887G-8	SureFISH Chr21 CEP 653 kb	FITC	20	RUO
	G110278R-8		Cy3	20	
	G110887B-8		Aqua	20	
CEP 22	G110888G-8	SureFISH Chr22 CEP 668 kb	FITC	20	RUO
	G110279R-8		Cy3	20	
	G110888B-8		Aqua	20	
CEP X	G110862G-8	SureFISH ChrX CEP 587 kb	FITC	20	RUO
	G110259R-8		Cy3	20	
	G110862B-8		Aqua	20	
CEP Y	G110863G-8	SureFISH ChrY CEP 273 kb	FITC	20	RUO
	G110260R-8		Cy3	20	
	G110863B-8		Aqua	20	

SureFISH concentrated probes (100 µL, high volume)

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
Chr 1p/19q	G110101G-8	SureFISH 19p13.2 ZNF443 513 kb P100 GR	Copy Number	FITC	100	RUO
	G110103R-8	SureFISH 19q13.33 GLTSCR2 298 kb P100 RD		Cy3	100	
	G110100G-8	SureFISH 1q25.2 ABL2 600 kb P100 GR		FITC	100	
	G110102R-8	SureFISH 1p36.32 TPRG1L 332 kb P100 RD		Cy3	100	
BRAF	G110113G-8	SureFISH 7q34 BRAF 5' BA 510 kb P100 GR	Break Apart	FITC	100	RUO
	G110112R-8	SureFISH 7q34 BRAF 3' BA 414 kb P100 RD		Cy3	100	
CDKN2A	G110142X-8	SureFISH 9p21.3 CDKN2A 351 kb P100 TR	Copy Number	Texas Red	100	RUO
HER2	G110139G-8	SureFISH 17q12 HER2 191 kb P100 GR		FITC	100	
ZNF217	G110140Y-8	SureFISH 20q13.2 ZNF217 480 kb P100 GO		Gold	100	
CDKN2A	G110142Y-8	SureFISH 9p21.3 CDKN2A 351 kb P100 GO	Copy Number	Gold	100	RUO
CEP17	G110141B-8	SureFISH Chr17 CEP 436 kb P100 BL		Aqua	100	
CEP3	G110143X-8	SureFISH Chr3 CEP 592 kb P100 TR		Texas Red	100	
CEP7	G110119G-8	SureFISH Ch7 CEP 767 kb P100 GR		FITC	100	
CDK4	G110145R-8	SureFISH 12q14.1 CDK4 308 kb P100 RD	Copy Number	Cy3	100	RUO
CEP 12	G110109G-8	SureFISH Chr12 CEP 704 kb P100 GR		FITC	100	
DDIT3	G110114G-8	SureFISH 12q13 DDIT3 3' BA 537 kb P100 GR	Break Apart	FITC	100	RUO
	G110115R-8	SureFISH 12q14 DDIT3 5' BA 498 kb P100 RD		Cy3	100	
DUSP22-IRF4	G110132G-8	SureFISH 6p25.3 DUSP22-IRF4 3' BA 235 kb P100 GR	Break Apart	FITC	100	RUO
	G110131R-8	SureFISH 6p25.3 DUSP22-IRF4 5' BA 48 kb P100 RD		Cy3	100	
EWSR1	G110107G-8	SureFISH 22q12.2 EWSR1 5' BA 564 kb P100 GR	Break Apart	FITC	100	RUO
	G110106R-8	SureFISH 22q12.2 EWSR1 3' BA 263 kb P100 RD		Cy3	100	
EGFR	G110120R-8	SureFISH 7p11.2 EGFR 188 kb P100 RD	Copy Number	Cy3	100	RUO
CEP 7	G110119G-8	SureFISH Chr7 CEP 767 kb P100 GR		FITC	100	
FGFR2	G110146R-8	SureFISH 10q26 FGFR2 360 kb P100 RD	Copy Number	Cy3	100	RUO
CEP 10	G110124G-8	SureFISH Chr10 CEP 676 kb P100 GR		FITC	100	
FOXO1	G110116G-8	SureFISH 13q14.11 FOXO1 3' BA 600 kb P100 GR	Break Apart	FITC	100	RUO
	G110117R-8	SureFISH 13q14.11 FOXO1 5' BA 601 kb P100 RD		Cy3	100	
FUS	G110133G-8	SureFISH 16p11.2 FUS 5' BA 457 kb P100 GR	Break Apart	FITC	100	RUO
	G110134R-8	SureFISH 16p11.2 FUS 3' BA 365 kb P100 RD		Cy3	100	
HER2	G110139G-8	SureFISH 17q12 HER2 191 kb P100 GR	Copy Number	FITC	100	RUO
HER2 CEP 17 RAI1	G110104R-8	SureFISH 17q12 HER2 191 kb P100 RD	Copy Number	Cy3	100	RUO
	G110105G-8	SureFISH Chr17 CEP 436 kb P100 GR		FITC	100	
	G110137G-8	SureFISH 17p11.2 RAI1 263 kb P100 GR		FITC	100	
IGH MAF	G110147G-8	SureFISH 14q32.33 IGH DF 1519 kb P100 GR	Dual Fusion	FITC	100	RUO
	G110138R-8	SureFISH 16q23.2 MAF DF 604 kb P100 RD		Cy3	100	
MAML2	G110154G-8	SureFISH 11q21 MAML2 3' BA 399 kb P100 GR	Break Apart	FITC	100	RUO
	G110155R-8	SureFISH 11q21 MAML2 5' BA 264 kb P100 RD		Cy3	100	
MDM2 CEP 12	G110108R-8	SureFISH 12q15 MDM2 180 kb P100 RD	Copy Number	Cy3	100	RUO
	G110109G-8	SureFISH Chr12 CEP 704 kb P100 GR		FITC	100	
MET CEP7	G110118R-8	SureFISH 7q31.2 MET 400 kb P100 RD	Copy Number	Cy3	100	RUO
	G110119G-8	SureFISH Chr7 CEP 767 kb P100 GR		FITC	100	
MYB	G110150R-8	SureFISH 6q23.3 MYB 5' BA 400 kb P100 RD	Break Apart	Cy3	100	RUO
	G110151G-8	SureFISH 6q23.3 MYB 3' BA 394 kb P100 GR		FITC	100	
MYCN CEP2	G110121R-8	SureFISH 2p24.3 MYCN 277 kb P100 RD	Copy Number	Cy3	100	RUO
	G110122G-8	SureFISH Chr2 CEP 448 kb P100 GR		FITC	100	
NTRK1	G110125G-8	SureFISH 1q21 NTRK1 5' BA 478 kb P100 GR	Break Apart	FITC	100	RUO
	G110126R-8	SureFISH 1q21 NTRK1 3' BA 380 kb P100 RD		Cy3	100	
NTRK2	G110128G-8	SureFISH 9q21.33 NTRK2 5' BA 406 kb P100 GR	Break Apart	FITC	100	RUO
	G110127R-8	SureFISH 9q21.33 NTRK2 3' BA 445 kb P100 RD		Cy3	100	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
NTRK3	G110130G-8	SureFISH 15q25.3 NTRK3 5' BA 481 kb P100 GR	Break Apart	FITC	100	RUO
	G110129R-8	SureFISH 15q25.3 NTRK3 3' BA 435 kb P100 RD		Cy3	100	
PLAG1	G110152R-8	SureFISH 8q12.1 PLAG1 3' BA 400 kb P100 RD	Break Apart	Cy3	100	RUO
	G110153G-8	SureFISH 8q12.1 PLAG1 5' BA 400 kb P100 GR		FITC	100	
PDGFB COL1A1	G110157G-8	SureFISH 22q13.1 PDGFB DF 919 kb P100 GR	Dual Fusion	FITC	100	RUO
	G110156R-8	SureFISH 17q21.33 COL1A1 DF 789 kb P100 RD		Cy3	100	
PTEN CEP 10	G110123R-8	SureFISH 10q23.31 PTEN 160 kb P100 RD	Copy Number	Cy3	100	RUO
	G110124G-8	SureFISH Chr10 CEP 676 kb P100 GR		FITC	100	
ROS1-GOPC	G110135G-8	SureFISH ROS1-GOPC 3' BA 1132 kb P100 GR	Break Apart	FITC	100	RUO
	G110136R-8	SureFISH ROS1-GOPC 5' BA 245 kb P100 RD		Cy3	100	
SS18 (SYT)	G110110G-8	SureFISH 18q11.2 SS18 3' BA 616 kb P100 GR	Break Apart	FITC	100	RUO
	G110111R-8	SureFISH 18q11.2 SS18 5' BA 406 kb P100 RD		Cy3	100	
TFE3	G110148R-8	SureFISH Xp11.23 TFE3 5' BA 237 kb P100 RD	Break Apart	Cy3	100	RUO
	G110149G-8	SureFISH Xp11.23 TFE3 3' BA 540 kb P100 GR		FITC	100	

SureFISH concentrated paired probes (200 μL, high volume)

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
ALK	G111900-8	SureFISH ALK BA P200	Break Apart	Cy3/FITC	200	RUO
ROS1	G111901-8	SureFISH ROS1 BA P200	Break Apart	Cy3/FITC	200	RUO
RET	G111902-8	SureFISH RET BA P200	Break Apart	Cy3/FITC	200	RUO
MYC	G111923-8	SureFISH MYC BA P200	Break Apart	Cy3/FITC	200	RUO
BCL2	G111924-8	SureFISH BCL2 BA P200	Break Apart	Cy3/FITC	200	RUO
BCL6	G111925-8	SureFISH BCL6 BA P200	Break Apart	Cy3/FITC	200	RUO
CCND1	G111926-8	SureFISH CCND1 BA P200	Break Apart	Cy3/FITC	200	RUO
IGH	G111928-8	SureFISH IGH BA P200	Break Apart	Cy3/FITC	200	RUO
IGH/BCL2	G111930-8	SureFISH IGH BCL2 DF P200	Dual Fusion	Cy3/FITC	200	RUO
IGH/CCND1	G111931-8	SureFISH IGH CCND1 DF P200	Dual Fusion	Cy3/FITC	200	RUO
IGH/MYC	G111929-8	SureFISH IGH MYC DF P200	Dual Fusion	Cy3/FITC	200	RUO
MALT1	G111927-8	SureFISH MALT1 BA P200	Break Apart	Cy3/FITC	200	RUO
28S	G111922-8	28S RNA CISH probe	Copy Number	CISH probe	200	RUO
EBER	G111921-8	EBER RNA CISH Probe	Copy Number	CISH probe	200	RUO
KAPPA	G111919-8	Kappa mRNA CISH Probe	Copy Number	CISH probe	200	RUO
LAMBDA	G111920-8	Lambda mRNA CISH Probe	Copy Number	CISH probe	200	RUO

Custom probes for human (std) and nonhuman (sml) targets

Std: for human genome probe designs, includes QC testing.

Sml: for mouse genome probes designs, QC testing not included.

	Part number	Product	Kit Size	Regulatory status
Human target design (QC)	G110997B-8	FISH custom probe std 20rxn BL	20 tests	RUO
	G110997G-8	FISH custom probe std 20rxn GR	20 tests	RUO
	G110997R-8	FISH custom probe std 20rxn RD	20 tests	RUO
	G110997X-8	FISH custom probe std 20rxn TR	20 tests	RUO
	G110997Y-8	FISH custom probe std 20rxn GO	20 tests	RUO
Mouse target design (No QC)	G110999B-8	FISH custom probe sml 20rxn BL	20 tests	RUO
	G110999G-8	FISH custom probe sml 20rxn GR	20 tests	RUO
	G110999R-8	FISH custom probe sml 20rxn RD	20 tests	RUO
	G110999X-8	FISH custom probe sml 20rxn TR	20 tests	RUO
	G110999Y-8	FISH custom probe sml 20rxn GO	20 tests	RUO

SureFISH products are for Research Use Only. Not for use in diagnostic procedures.

FISH Accessories

Manual ISH accessories

Part number	Description	Size	Regulatory status
G9400A	FISH Hybridization Buffer Cytology (overnight)	100 µL	Laboratory Use
G9410A	FISH Hybridization Buffer FFPE (overnight)	100 µL	Laboratory Use
G9401A	FISH Wash Buffer 1	500 mL	Laboratory Use
G9402A	FISH Wash Buffer 2	500 mL	Laboratory Use
G9403A	FISH Mounting Buffer without DAPI	100 µL	Laboratory Use
G9404A	FISH Mounting Buffer	100 µL	Laboratory Use
G9411A	ISH Pepsin Kit	50 slides	Laboratory Use
G9415A	IQFISH Fast Hybridization Buffer 200 µL	200 µL	Laboratory Use
G9416A	IQFISH Fast Hybridization Buffer 200 µL x 6	200 µL x 6	Laboratory Use

Automated ISH accessories

Part number	Description	Size	Regulatory status
G9414A	IQFISH Fast Hybridization Buffer	900 µL	Laboratory Use

Fluorochromes used in SureFISH assays

Color	Excitation Range (nm)	Emission Range (nm)
Texas Red (Red)	545-585	610-680
Cy3 (Orange-red)	532-565	580-640
Gold (Yellow)	520-545	555-585
FITC (Green)	450-490	500-650
Aqua (Blue)	430-450	465-505

Fluorochromes used in *HER2* IQFISH pharmDx assays

Color	Excitation Peak (nm)	Emission Peak (nm)
FITC (Green)	495	520
Texas Red (Red)	596	615

General FISH Protocols

Visit our website at [Agilent FISH Protocols](#) for fast FISH protocols and overnight protocols for FFPE samples and non-FFPE samples.

SureFISH probes scientific publications

- Takeda, M.; Kasai, T.; Shimizu, S.; Kitaichi, M.; Kojima, K.; Nagoya, A.; Hayashi, A.; Utsumi, T.; Yoon, H.-E.; Matsumura, A.; Atagi, S. Assessment of Alk Gene Rearrangement in Lung Cancer Using a New Rapid Automated SureFISH (Dako Omnis) Assay. *Journal of Clinical Pathology* **2017**, 70 (8), 712–714.
- Viale, G.; Paterson, J.; Bloch, M.; Csathy, G.; Allen, D.; Dell’Orto, P.; Kjærsgaard, G.; Levy, Y. Y.; Jørgensen, J. T. Assessment of HER2 Amplification Status in Breast Cancer Using a New Automated *HER2* IQFISH pharmDx (Dako Omnis) Assay. *Pathology - Research and Practice* **2016**, 212 (8), 735–742.
- Viale, G.; Paterson, J.; Bloch, M.; Csathy, G.; Allen, D.; Dell’Orto, P.; Kjærsgaard, G.; Levy, Y. Y.; Jørgensen, J. T. Analysis of HER2 status in gastroesophageal tumor specimens using a new automated *HER2* IQFISH pharmDx (Dako Omnis) assay. *Histology and histopathology* **2016**, 31 (12), 1327-1335.



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