

ISH Product List 2023

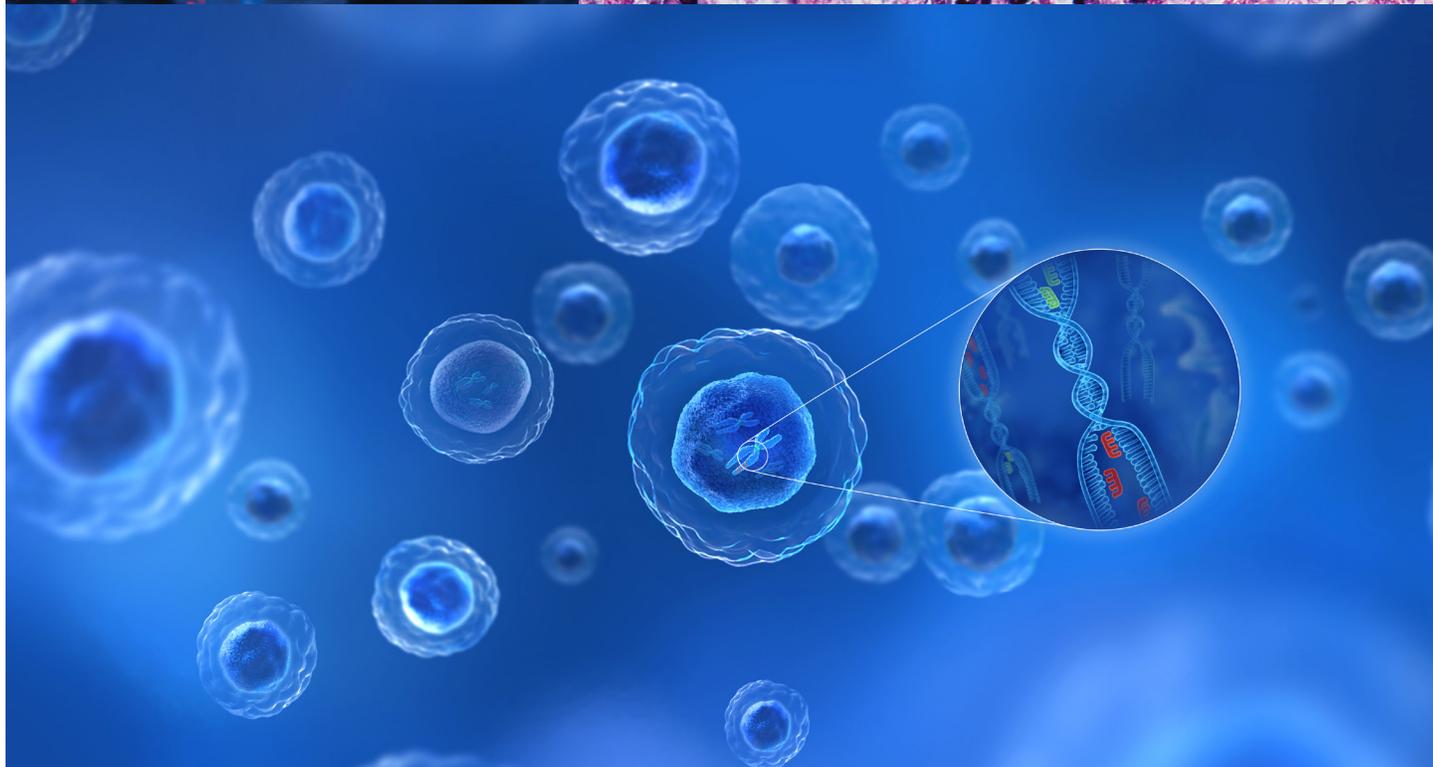
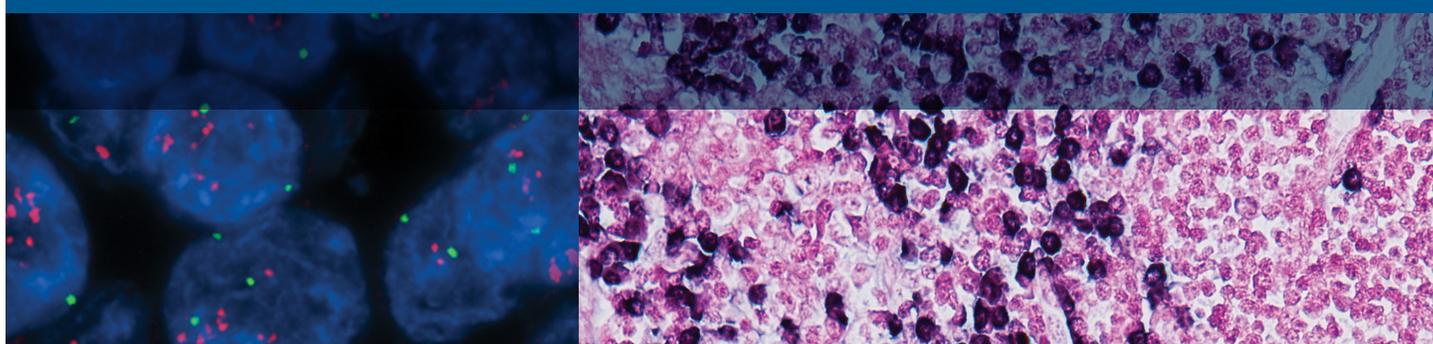




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Diagnostic IQFISH Assays for Manual Use

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. Our high quality probes, combined with Dako Histology FISH Accessory Kit, ensure consistent bright signals and superior tissue morphology.

Accessory kit for manual FISH test

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	K579911-5	Dako Histology FISH Accessory Kit for IQFISH	20 tests	IVD



Figure 1. Dako Histology FISH Accessory Kit for IQFISH.

HER2 IQFISH pharmDx Kit

The below kit includes IVD ready to use 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 metastatic **gastric or gastroesophageal** junction adenocarcinoma. It is indicated as an aid in the assessment of breast and gastric cancer patients for whom **Herceptin**[®] (trastuzumab) treatment is being considered and for breast cancer patients for whom **PERJETA**[™] (pertuzumab) or **KADCYLA**[™] (ado-trastuzumab emtansine) treatment is being considered.

Target	Part number	Description	Probe type	Fluorochrome	Size	Regulatory status
HER2	K573111-5	<i>HER2</i> IQFISH pharmDx	Copy Number	Texas Red/FITC	20 tests	IVD

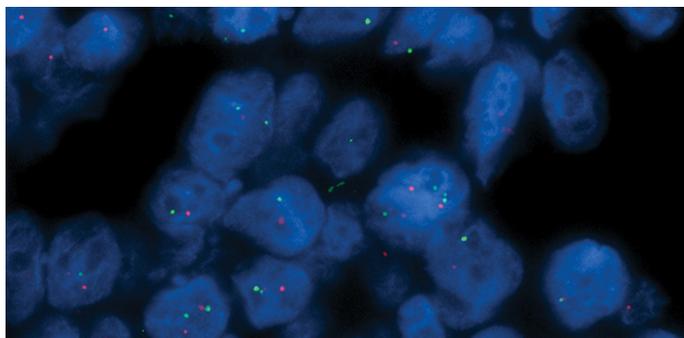


Figure 2. *HER2* FISH, nonamplified case.

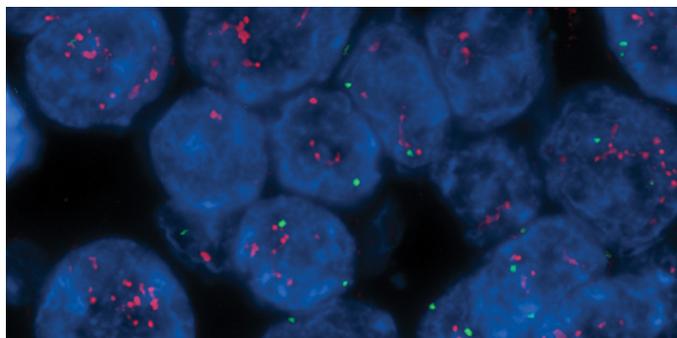


Figure 3. *HER2* FISH, amplified case.

CISH and ISH Accessories for Dako Omnis

CISH Accessory Kit

The CISH detection reagents enable the automated chromogenic visualization of mRNA expression on FFPE tissue samples. The formamide free 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

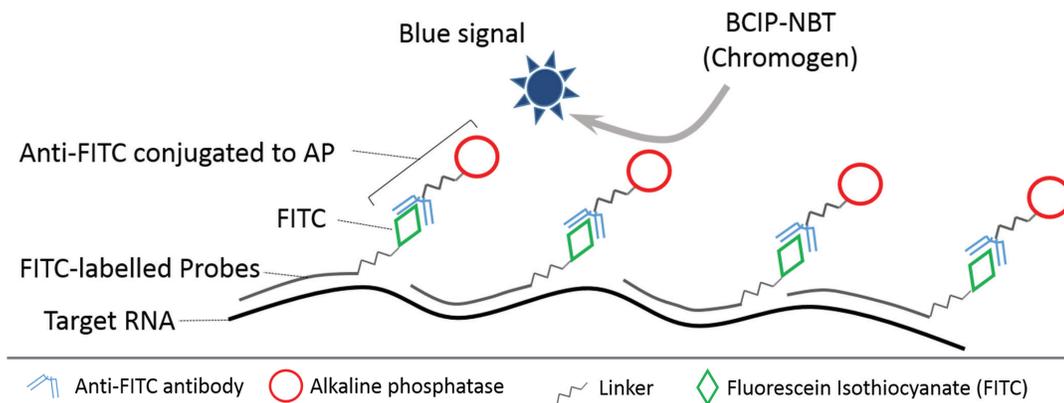


Figure 4. Schematic of method for detection of FITC-labeled probes. Anti-FITC-AP: Alkaline phosphatase-conjugated antibody to fluorescein. BCIP-NBT substrate: 5-bromo-4-chloro-3-indolylphosphate (BCIP) and nitroblue tetrazolium (NBT).

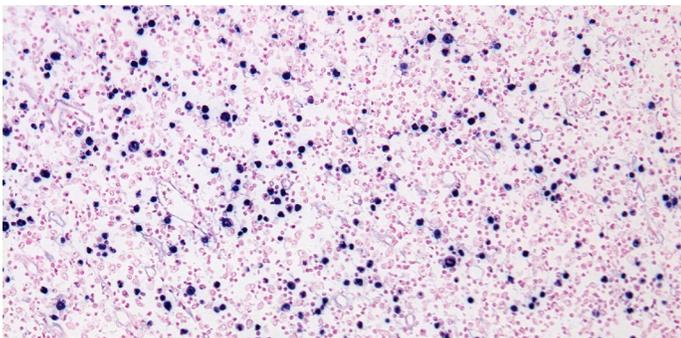


Figure 5. FFPE sample stained with EBER probe.

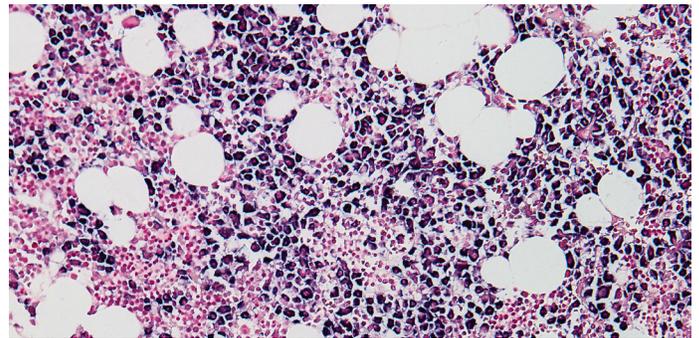


Figure 6. Bone marrow stained with Kappa probe.

Accessories for Dako Omnis ISH Assays

Accessories needed to perform FISH on Dako Omnis

Part number	Description	Size	Regulatory status
GM30211-5	ISH Pepsin (Dako Omnis)	20 tests, 7 mL	IVD
GM30011-5	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

**Only to be used with concentrated probes*



Figure 7. Dako Omnis ISH ancillaries.



Figure 8. Dako Omnis Mixing Device.

SureFISH Probes (Analyte Specific Reagent)

SureFISH paired probes

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
ALK	G111400	SureFISH ALK BA P20	Break Apart	Cy3/FITC	20	ASR
ROS1	G111401	SureFISH ROS1 BA P20	Break Apart	Cy3/FITC	20	ASR
RET	G111402	SureFISH RET BA P20	Break Apart	Cy3/FITC	20	ASR
MALT1	G111420	SureFISH MALT1 BA P20	Break Apart	Cy3/FITC	20	ASR
BCL2	G111421	SureFISH BCL2 BA P20	Break Apart	Cy3/FITC	20	ASR
BCL6	G111422	SureFISH BCL6 BA P20	Break Apart	Cy3/FITC	20	ASR
MYC	G111423	SureFISH MYC BA P20	Break Apart	Cy3/FITC	20	ASR
IGH	G111424	SureFISH IGH BA P20	Break Apart	Cy3/FITC	20	ASR
IGH/MYC	G111425	SureFISH IGH MYC DF P20	Dual Fusion	Cy3/FITC	20	ASR
IGH/BCL2	G111426	SureFISH IGH BCL2 DF P20	Dual Fusion	Cy3/FITC	20	ASR
IGH/CCND1	G111442	SureFISH IGH CCND1 DF P20	Dual Fusion	Cy3/FITC	20	ASR
CCND1	G111443	SureFISH CCND1 BA P20	Break Apart	Cy3/FITC	20	ASR
PML-RARA	G110425	SureFISH PML-RARA DF P20	Dual Fusion	Cy3/FITC	20	ASR

SureFISH concentrated probes (20 µL)

Break apart probes

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
ABL1	G110420G	SureFISH 9q34.12 ABL1 3' BA 350 kb P20 GR	Break Apart	FITC	20	ASR
	G110419R	SureFISH 9q34.11 ABL1 5' BA 350 kb P20 RD		Cy3	20	
ABL2	G110418G	SureFISH 1q25.2 ABL2 3' BA 464 kb P20 GR	Break Apart	FITC	20	ASR
	G110417R	SureFISH 1q25.2 ABL2 5' BA 571 kb P20 RD		Cy3	20	
ALK	G110992G	SureFISH 2p23 ALK 5'BA 599 kb P20 GR	Break Apart	FITC	20	ASR
	G110387R	SureFISH 2p23 ALK 3'BA 300 kb P20 RD		Cy3	20	
BCL2	G110989G	SureFISH 18q21 BCL2 5' BA 598 kb P20 GR	Break Apart	FITC	20	ASR
	G110988R	SureFISH 18q21 BCL2 3' BA 389 kb P20 RD		Cy3	20	
BCL3	G110290G	SureFISH 19q13.32 BCL3 3' BA 451 kb P20 GR	Break Apart	FITC	20	ASR
	G110290R	SureFISH 19q13.31 BCL3 5' BA 305 kb P20 RD		Cy3	20	
BRAF	G110400G	SureFISH 7q34 BRAF 5' BA 510 kb P20 GR	Break Apart	FITC	20	ASR
	G110399R	SureFISH 7q34 BRAF 3' BA 414 kb P20 RD		Cy3	20	
CBFB	G110245G	SureFISH 16q22.1 CBFB 3' BA 284 kb P20 GR	Break Apart	FITC	20	ASR
	G110244R	SureFISH 16q22.1 CBFB 5' BA 240 kb P20 RD		Cy3	20	
CHIC2 FIP1L1 PDGFRA	G110305R	SureFISH 4q12 CHIC2 469 kb P20 RD	Break Apart	Cy3	20	ASR
	G110439G	SureFISH 4q12 FIP1L1 TC 500 kb P20 GR		FITC	20	
	G110827B	SureFISH 4q12 PDGFRA TC 481 kb P20 BL		Aqua	20	
CIC	G110204G	SureFISH 19q13.2 CIC 5' BA 619 kb P20 GR	Break Apart	FITC	20	ASR
	G110203R	SureFISH 19q13.2 CIC 3' BA 239 kb P20 RD		Cy3	20	
CRLF2	G110980G	SureFISH Xp22/Yp11 CRLF2 5' BA P20 GR	Break Apart	FITC	20	ASR
	G110979R	SureFISH Xp22/Yp11 CRLF2 3' BA P20 RD		Cy3	20	
CSF1R	G110410G	SureFISH 5q32 CSF1R 3' BA 402 kb P20 GR	Break Apart	FITC	20	ASR
	G110411R	SureFISH 5q32 CSF1R 5' BA 465 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
C11orf95	G110476G	SureFISH 11q13.1 C11orf95 5' BA 504 kb P20 GR	Break Apart	FITC	20	ASR
	G110477R	SureFISH 11q13.1 C11orf95 3' BA 316 kb P20 RD		Cy3	20	
DDIT3	G110982G	SureFISH 12q13 DDIT3 3' BA 537 kb P20 GR	Break Apart	FITC	20	ASR
	G110983R	SureFISH 12q14 DDIT3 5' BA 498 kb P20 RD		Cy3	20	
DUSP22-IRF4	G110713G	SureFISH 6p25.3 DUSP22-IRF4 3' 235 kb P20 GR	Break Apart	FITC	20	ASR
	G110712R	SureFISH 6p25.3 DUSP22-IRF4 5' 48 kb P20 RD		Cy3	20	
EPOR	G110413G	SureFISH 19p13.2 EPOR 5' BA 291 kb P20 GR	Break Apart	FITC	20	ASR
	G110412R	SureFISH 19p13.2 EPOR 3' BA 299 kb P20 RD		Cy3	20	
ERG TMPRSS2	G110816G	SureFISH 21q22.2 ERG 5' BA 552 kb P20 GR	Break Apart	FITC	20	ASR
	G110802R	SureFISH 21q22.13 ERG 3' BA 426 kb P20 RD		Cy3	20	
	G110820B	SureFISH 21q22.3 TMPRSS2 5' TC 529 kb BL		Aqua	20	
ETV6	G110274G	SureFISH 12p13.2 ETV6 5' BA 460 kb P20 GR	Break Apart	FITC	20	ASR
	G110273R	SureFISH 12p13.2 ETV6 3' BA 384 kb P20 RD		Cy3	20	
EWSR1	G110456G	SureFISH 22q12.2 EWSR1 5' BA 564 kb P20 GR	Break Apart	FITC	20	ASR
	G110392R	SureFISH 22q12.2 EWSR1 3' BA 263 kb P20 RD		Cy3	20	
FGFR1	G110469G	SureFISH 8p11.23 FGFR1 3' BA 393 kb P20 GR	Break Apart	FITC	20	ASR
	G110470R	SureFISH 8p11.22 FGFR1 5' BA 515 kb P20 RD		Cy3	20	
FGFR2	G110726G	SureFISH 10q26.12 FGFR2 3' BA 400 kb P20 GR	Break Apart	FITC	20	ASR
	G110725R	SureFISH 10q26.13 FGFR2 5' BA 400 kb P20 RD		Cy3	20	
FGFR3	G110471G	SureFISH 4p16.3 FGFR3 3' BA 373 kb P20 GR	Break Apart	FITC	20	ASR
	G110472R	SureFISH 4p16.3 FGFR3 5' BA 316 kb P20 RD		Cy3	20	
FLT3	G110326G	SureFISH 13q12.2 FLT3 5' BA 496 kb P20 GR	Break Apart	FITC	20	ASR
	G110325R	SureFISH 13q12.2 FLT3 3' BA 428 kb P20 RD		Cy3	20	
FOSB	G110474G	SureFISH 19q13.32 FOSB 5' BA 430 kb P20 GR	Break Apart	FITC	20	ASR
	G110475R	SureFISH 19q13.32 FOSB 3' BA 619 kb P20 RD		Cy3	20	
FOXO1	G110986G	SureFISH 13q14.11 FOXO1 3' BA 600 kb P20 GR	Break Apart	FITC	20	ASR
	G110987R	SureFISH 13q14.11 FOXO1 5' BA 601 kb P20 RD		Cy3	20	
IGK	G110732G	SureFISH 2p11.2 IGK 5' BA 1063 kb P20 GR	Break Apart	FITC	20	ASR
	G110731R	SureFISH 2p11.2 IGK 3' BA 252 kb P20 RD		Cy3	20	
IGL	G110729G	SureFISH 22q11.22 IGL 5' BA 946 kb P20 GR	Break Apart	FITC	20	ASR
	G110730R	SureFISH 22q11.22 IGL 3' BA 343 kb P20 RD		Cy3	20	
JAK2	G110201G	SureFISH 9p24.1 JAK2 3' BA 503 kb P20 GR	Break Apart	FITC	20	ASR
	G110200R	SureFISH 9p24.1 JAK2 5' BA 286 kb P20 RD		Cy3	20	
MECOM	G110447G	SureFISH 3q26.2 MECOM 3' BA 451 kb P20 GR	Break Apart	FITC	20	ASR
	G110361R	SureFISH 3q26.2 MECOM 5' BA 408 kb P20 RD		Cy3	20	
	G110806B	SureFISH 3q26.2 MECOM 5' TC 437 kb P20 BL		Aqua	20	
MEIS1	G110237G	SureFISH 2p14 MEIS1 5' BA 300 kb P20 GR	Break Apart	FITC	20	ASR
	G110236R	SureFISH 2p14 MEIS1 3' BA 300 kb P20 RD		Cy3	20	
MGEA5	G110429G	SureFISH 10q24.32 MGEA5 3' BA 743 kb P20 GR	Break Apart	FITC	20	ASR
	G110209R	SureFISH 10q24.32 MGEA5 5' BA 353 kb P20 RD		Cy3	20	
MLL	G110254G	SureFISH 11q23 MLL 5' BA 497 kb P20 GR	Break Apart	FITC	20	ASR
	G110253R	SureFISH 11q23 MLL 3' BA 199 kb P20 RD		Cy3	20	
MLLT10	G110705G	SureFISH 10p12.31 MLLT10 5' BA 673 kb P20 GR	Break Apart	FITC	20	ASR
	G110704R	SureFISH 10p12.31 MLLT10 3' BA 465 kb P20 RD		Cy3	20	
MYC	G110458G	SureFISH 8q24.21 MYC 5' BA 632 kb P20 GR	Break Apart (Tricolor)	FITC	20	ASR
	G110395R	SureFISH 8q24.21 MYC 3' BA 432 kb P20 RD		Cy3	20	
	G110830B	SureFISH 8q24.21 MYC 3' TC 398 kb P20 BL		Aqua	20	
NCOA2	G110223G	SureFISH 8q13.3 NCOA2 3' BA 608 kb P20 GR	Break Apart	FITC	20	ASR
	G110222R	SureFISH 8q13.3 NCOA2 5' BA 258 kb P20 RD		Cy3	20	
NRG1	G110219G	SureFISH 8p12 NRG1 5' BA 460 kb P20 GR	Break Apart	FITC	20	ASR
	G110218R	SureFISH 8p12 NRG1 3' BA 248 kb P20 RD		Cy3	20	
NTRK1	G110430G	SureFISH 1q23.1 NTRK1 5' BA 182 kb P20 GR	Break Apart	FITC	20	ASR
	G110214R	SureFISH 1q23.1 NTRK1 3' BA 140 kb P20 RD		Cy3	20	
	G110719G	SureFISH 1q23.1 NTRK1 5' BA 478 kb P20 GR		FITC	20	
	G110720R	SureFISH 1q23.1 NTRK1 3' BA 380 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
NTRK2	G110721G	SureFISH 9q21.33 NTRK2 5' BA 406 kb P20 GR	Break Apart	FITC	20	ASR
	G110722R	SureFISH 9q 21.33 NTRK2 3' BA 445 kb P20 RD		Cy3	20	
NTRK3	G110431G	SureFISH 15q25.3 NTRK3 5' 373 kb P20 GR	Break Apart	FITC	20	ASR
	G110215R	SureFISH 15q25.3 NTRK3 3' 390 kb P20 RD		Cy3	20	
	G110723G	SureFISH 15q25.3 NTRK3 5' BA 481 kb P20 GR		FITC	20	
	G110724R	SureFISH 15q25.3 NTRK3 3' BA 435 kb P20 RD		Cy3	20	
NUP214	G110323G	SureFISH 9q34.13 NUP214 5' BA 548 kb P20 GR	Break Apart	FITC	20	ASR
	G110322R	SureFISH 9q34.13 NUP214 3' BA 447 kb P20 RD		Cy3	20	
NUP98	G110441G	SureFISH 11p15.4 NUP98 5' BA 416 kb P20 GR	Break Apart	FITC	20	ASR
	G110718R	SureFISH 11p15.4 NUP98 3' BA 359 kb P20 RD		Cy3	20	
	G110309R	SureFISH 11p15.4 NUP98 3' BA 132 kb P20 RD		Cy3	20	
PAX3	G110206G	SureFISH 2q36.1 PAX3 3' BA 575 kb P20 GR	Break Apart	FITC	20	ASR
	G110205R	SureFISH 2q36.1 PAX3 5' BA 285 kb P20 RD		Cy3	20	
PAX5	G110367G	SureFISH 9p13.2 PAX5 3' BA 621 kb P20 GR	Break Apart	FITC	20	ASR
	G110366R	SureFISH 9p13.2 PAX5 5' BA 354 kb P20 RD		Cy3	20	
PDGFB	G110404G	SureFISH 5q32 PDGFRB 5' BA 435 kb P20 GR	Break Apart	FITC	20	ASR
	G110405R	SureFISH 5q32 PDGFRB 3' BA 354 kb P20 RD		Cy3	20	
PDGFD	G110407G	SureFISH 11q22.3 PDGFD 5' BA 350 kb P20 GR	Break Apart	FITC	20	ASR
	G110406R	SureFISH 11q22.3 PDGFD 3' BA 350 kb P20 RD		Cy3	20	
PDGFRB	G110304G	SureFISH 5q32 PDGFRB 5' BA 435 kb P20 GR	Break Apart	FITC	20	ASR
	G110303R	SureFISH 5q32 PDGFRB 3' BA 354 kb P20 RD		Cy3	20	
PHF1	G110235G	SureFISH 6p21.32 PHF1 3' BA 616 kb P20 GR	Break Apart	FITC	20	ASR
	G110234R	SureFISH 6p21.32 PHF1 5' BA 355 kb P20 RD		Cy3	20	
PLAG1	G110227G	SureFISH 8q12.1 PLAG1 5' BA 625 kb P20 GR	Break Apart	FITC	20	ASR
	G110226R	SureFISH 8q12.1 PLAG1 3' BA 295 kb P20 RD		Cy3	20	
PPARG	G110728G	SureFISH 3p25.2 PPARG 3' BA 400 kb P20 GR	Break Apart	FITC	20	ASR
	G110727R	SureFISH 3p25.2 PPARG 5' BA 398 kb P20 RD		Cy3	20	
RARA	G110452G	SureFISH 17q21.1 RARA 5' BA 600 kb P20 GR	Break Apart	FITC	20	ASR
	G110282R	SureFISH 17q21.2 RARA 3' BA 419 kb P20 RD		Cy3	20	
ROS1	G110454G	SureFISH 6q22.1 ROS1 3' BA 1132 kb P20 GR	Break Apart	FITC	20	ASR
	G110389R	SureFISH 6q22.1 ROS1 5' BA 245 kb P20 RD		Cy3	20	
RUNX1	G110409G	SureFISH 21q22.12 RUNX1 5' BA 569 kb P20 GR	Break Apart	FITC	20	ASR
	G110408R	SureFISH 21q22.12 RUNX1 3' BA 563 kb P20 RD		Cy3	20	
SIL-TAL1	G110707G	SureFISH 1p33 SIL 3' BA 566 kb P20 GR	Break Apart	FITC	20	ASR
	G110706R	SureFISH 1p33 TAL1 5' BA 75 kb P20 RD		Cy3	20	
SS18 (SYT)	G110457G	SureFISH 18q11.2 SS18 3' BA 616 kb P20 GR	Break Apart	FITC	20	ASR
	G110394R	SureFISH 18q11.2 SS18 5' BA 406 kb P20 RD		Cy3	20	
TCL1	G110709G	SureFISH 14q32.2 TCL1 3' BA 504 kb P20 GR	Break Apart	FITC	20	ASR
	G110708R	SureFISH 14q32.13 TCL1 5' BA 361 kb P20 RD		Cy3	20	
TCRAD	G110364G	SureFISH 14q11.2 TCRAD 5' BA 468 kb P20 GR	Break Apart	FITC	20	ASR
	G110363R	SureFISH 14q11.2 TCRAD 3' BA 305 kb P20 RD		Cy3	20	
TFEB	G110243G	SureFISH 6p21.1 TFEB 3' BA 323 kb P20 GR	Break Apart	FITC	20	ASR
	G110242R	SureFISH 6p21.1 TFEB 5' BA 288 kb P20 RD		Cy3	20	
TFE3	G110460G	SureFISH Xp11.2 TFE3 3' BA 540 kb P20 GR	Break Apart	FITC	20	ASR
	G110459R	SureFISH Xp11.2 TFE3 5' BA 237 kb P20 RD		Cy3	20	
TGFBR3	G110208G	SureFISH 1p22.1 TGFBR3 5' BA 621 kb P20 GR	Break Apart	FITC	20	ASR
	G110207R	SureFISH 1p22.1 TGFBR3 3' BA 402 kb P20 RD		Cy3	20	
TLX3	G110369G	SureFISH 5q35.1 TLX3 3' BA 416 kb P20 GR	Break Apart	FITC	20	ASR
	G110368R	SureFISH 5q35.1 TLX3 5' BA 325 kb P20 RD		Cy3	20	
TP63	G110715G	SureFISH 3q28 TP63 3' BA 443 kb P20 GR	Break Apart	FITC	20	ASR
	G110714R	SureFISH 3q28 TP63 5' BA 372 kb P20 RD		Cy3	20	
TRB	G110701G	SureFISH 7q34 TRB 5' BA 583 kb P20 GR	Break Apart	FITC	20	ASR
	G110700R	SureFISH 7q34 TRB 3' BA 390 kb P20 RD		Cy3	20	
TRG	G110703G	SureFISH 7p14.1 TRG 5' BA 586 kb P20 GR	Break Apart	FITC	20	ASR
	G110702R	SureFISH 7p14.1 TRG 3' BA 349 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
USP6	G110711G	SureFISH 17p13.2 USP6 5' BA 400 kb P20 GR	Break Apart	FITC	20	ASR
	G110710R	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	ASR
	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	SureFISH 1p36.32 TPRG1L 332 kb P20 RD	Copy Number (Dual color)	Cy3	20	ASR
	G110891G	SureFISH 1q25.2 ABL2 600 kb P20 GR		FITC	20	
	G110386R	SureFISH 19q13.33 GLTSCR2 298 kb P20 RD		Cy3	20	
	G110897G	SureFISH 19p13.2 ZNF443 513 kb P20 GR		FITC	20	
Chr.1p/19q	G110736B	SureFISH 1q25.2 ABL2 600 kb P20 BL	Copy Number (Tricolor)	Aqua	20	ASR
	G110385R	SureFISH 1p36.32 TPRG1L 332 kb P20 RD		Cy3	20	
	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
	G110735B	SureFISH 19p13.2 ZNF443 513 kb P20 BL		Aqua	20	
	G110875G	SureFISH Chr19 CEP 527 kb P20 GR		FITC	20	
	G110386R	SureFISH 19q13.33 GLTSCR2 298 kb P20 RD		Cy3	20	
ABL	G110391R	SureFISH 9q34.12 ABL DF 640 kb P20 RD	Dual Fusion	Cy3	20	ASR
BCR	G110455G	SureFISH 22q11.23 BCR DF 1388 kb P20 GR		FITC	20	
ASS1	G110833B	SureFISH 9q34.11 ASS1 DF 367 kb P20 BL		Aqua	20	
AHR	G110403R	SureFISH 7p21.1 AHR 150 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 7	G110899G	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
AJAP1	G110754G	SureFISH 1p36 AJAP1 303 kb P20 GR	Copy Number	FITC	20	ASR
CEP1	G110261R	SureFISH Chr1 CEP 541 kb P20 RD		Cy3	20	
AR	G110228R	SureFISH Xq12 AR 216 kb P20 RD	Copy Number	Cy3	20	ASR
CEP X	G110862G	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	
ASPSCR1	G110435G	SureFISH 17q25.3 ASPSCR1 406 kb P20 GR	Copy Number	FITC	20	ASR
CEP 17	G110291R	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
ATM	G110360G	SureFISH 11q22.3 ATM 732 kb P20 GR	Copy Number	FITC	20	ASR
TP53	G110383R	SureFISH 17p13.1 TP53 120 kb P20 RD		Cy3	20	
D13S319	G110252R	SureFISH 13q14.2 D13S319 154 kb P20 RD	Copy Number	Cy3	20	ASR
CEP12	G110890G	SureFISH Chr12 CEP 704 kb P20 GR		FITC	20	
LAMP1	G110800B	SureFISH 13q34 LAMP1 598 kb P20 BL		Aqua	20	
ATM	G110251R	SureFISH 11q22.3 ATM 153 kb P20 RD	Copy Number	Cy3	20	ASR
CEP11	G110883G	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
BCL3	G110473R	SureFISH 19q13.32 BCL3 DF 565 kb P20 RD	Dual Fusion	Cy3	20	ASR
IGH	G110995G	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
BCL9	G110351R	SureFISH 1q21.2 BCL9 99 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
BCL11A	G110752R	SureFISH 2p16.1 BCL11A 102 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 2	G110889G	SureFISH Chr2 CEP 448 kb P20 GR		FITC	20	
BCOR	G110432G	SureFISH Xp11.4 BCOR 1009 kb P20 GR	Copy Number	FITC	20	ASR
CEP X	G110259R	SureFISH ChrX CEP 587 kb P20 RD		Cy3	20	
BIRC3	G110373R	SureFISH 11q22.2 BIRC3 DF 674 kb P20 RD	Dual Fusion	Cy3	20	ASR
MALT1	G110374G	SureFISH 18q21.32 MALT1 DF 672 kb P20 GR		FITC	20	
BRAF	G110258R	SureFISH 7q34 BRAF 227 kb P20 RD	Dual Fusion	Cy3	20	ASR
KIAA1549	G110750G	SureFISH 7q34 KIAA1549 150 kb P20 GR		FITC	20	
CAMTA1	G110216R	SureFISH 1p36.23 CAMTA1 DF 647 kb P20 RD	Dual Fusion	Cy3	20	ASR
WWTR1	G110217G	SureFISH 3q25.1 WWTR1 DF 619 kb P20 GR		FITC	20	
CBFB	G110422G	SureFISH 16q22.1 CBFB DF 498 kb P20 GR	Dual Fusion	FITC	20	ASR
MYH11	G110421R	SureFISH 16p13.1 MYH11 DF 445 kb P20 RD		Cy3	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
CCNB3	G110480R	SureFISH Xp11.22 CCNB3 DF 683 kb P20 RD	Dual Fusion	Cy3	20	ASR
BCOR	G110423G	SureFISH Xp11.4 BCOR DF 1009 kb P20 GR		FITC	20	
CCND1	G110212R	SureFISH 11q13.3 CCND1 997 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 11	G110883G	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
CCND1	G110976G	SureFISH 11q13.2 CCND1 DF 577 kb P20 GR	Dual Fusion	FITC	20	ASR
	G110370R	SureFISH 11q13.2 CCND1 DF 577 kb P20 RD		Cy3	20	
CCND3	G110379R	SureFISH 6p21.1 CCND3 DF 678 kb P20 RD	Dual Fusion	Cy3	20	ASR
IGH	G110995G	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
CD160	G110745R	SureFISH 1q21.1 CD160 122 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
CDK4	G110978R	SureFISH 12q14.1 CDK4 308 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 12	G110890G	SureFISH Chr12 CEP 704 kb P20 GR		FITC	20	
CDKN2A	G110402G	SureFISH 9p21.3 CDKN2A 351 kb P20 GR	Copy Number	FITC	20	ASR
	G110402R	SureFISH 9p21.3 CDKN2A 351 kb P20 RD		Cy3	20	
	G110973Y	SureFISH 9p21.3 CDKN2A 351 kb P20 GO		Gold	20	
	G110221R	SureFISH 9p21.3 CDKN2A 57 kb P20 RD		Cy3	20	
	G110350R	SureFISH 9p21.3 CDKN2A 188 kb P20 RD		Cy3	20	
CEP 9	G110975G	SureFISH Chr9 CEP 367 kb P20	Copy Number	FITC	20	ASR
	G110266R			Cy3	20	
	G110869B			Aqua	20	
CDKN2C	G110858G	SureFISH 1p32.3 CDKN2C 426 kb P20 GR	Copy Number	FITC	20	ASR
	G110376R	SureFISH 1p32.3 CDKN2C 153 kb P20 RD		Cy3	20	
CKS1B	G110324R	SureFISH 1q21.3 CKS1B 386 kb P20 RD	Copy Number	Cy3	20	ASR
	G110324G	SureFISH 1q21.3 CKS1B 386 kb P20 GR		FITC	20	
CHRNA7	G110743R	SureFISH 15q13.3 CHRNA7 123 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 15	G110872G	SureFISH Chr15 CEP 265 kb P20 GR		FITC	20	
COL1A1	G110733R	SureFISH 17q21.33 COL1A1 DF 789 kb P20 RD	Dual Fusion	Cy3	20	ASR
PDGFB	G110734G	SureFISH 22q13.1 PDGFB DF 919 kb P20 GR		FITC	20	
D13S25	G110377R	SureFISH 13q14.3 D13S25 197 kb P20 RD	Copy Number	Cy3	20	ASR
LAMP1	G110800G	SureFISH 13q34 LAMP1 598 kb P20 GR		FITC	20	
D15S11	G110297R	SureFISH 15q11.2 D15S11 135 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 15	G110872G	SureFISH Chr15 CEP 265 kb P20 GR		FITC	20	
D20S108	G110247R	SureFISH D20S108 20q12 200 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 20	G110886G	SureFISH Chr20 CEP 687 kb P20 GR		FITC	20	
D5S630	G110437G	SureFISH 5p15.31 D5S630 370 kb P20 GR	Copy Number	FITC	20	ASR
EGR1	G110249R	SureFISH 5q31.2 EGR1 184 kb P20 RD		Cy3	20	
D7S486	G110246R	SureFISH 7q31.2 D7S486 200 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 7	G110899G	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
DSCR8	G110285R	SureFISH 21q22.13 DSCR8 494 kb P20 RD	Copy Number	Cy3	20	ASR
RB1	G110283G	SureFISH 13q14.2 RB1 522 kb P20 GR		FITC	20	
EGFR	G110321R	SureFISH 7p11.2 EGFR 188 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 7	G110899G	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
ELN-LIMK1	G110744R	SureFISH 7q11.23 ELN-LIMK1 104 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 7	G110899G	SureFISH Chr7 CEP 767 kb P20 GR		FITC	20	
ENO1	G110213R	SureFISH 1p36.23 ENO1 763 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
ETV6	G110229R	SureFISH 12p13.2 ETV6 DF 505 kb P20 RD	Dual Fusion	Cy3	20	ASR
RUNX1	G110230G	SureFISH 21q22.12 RUNX1 DF 672 kb P20 GR		FITC	20	
EWSR1	G110463G	SureFISH 22q12.2 EWSR1 DF 740 kb P20 GR	Dual Fusion	FITC	20	ASR
FLI1	G110464R	SureFISH 11q24.3 FLI1 DF 770 kb P20 RD		Cy3	20	
EXT2	G110330R	SureFISH 11p11.2 EXT2 56 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 11	G110883G	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
FGFR1	G110397R	SureFISH 8p11 FGFR1 325 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 8	G110834G	SureFISH Chr8 CEP 635 kb P20 GR		FITC	20	
FGFR2	G110981R	SureFISH 10q26 FGFR2 360 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 10	G110884G	SureFISH Chr10 CEP 676 kb P20 GR		FITC	20	
FGFR3	G110301R	SureFISH 4p16.3 FGFR3 DF 623 kb P20 RD	Dual Fusion	Cy3	20	ASR
IGH	G110995G	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
GABRB3 CEP 15	G110298R G110872G	SureFISH 15q12 GABRB3 230 kb P20 RD SureFISH Chr15 CEP 265 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
GATA4 CEP 8	G110749R G110834G	SureFISH 8p23.1 GATA4 118 kb P20 RD SureFISH Chr8 CEP 635 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
HER2 CEP 17 RAI1 HER2 CEP 17 RAI1	G110969G G110972B G110384R G110390R G110972B G110384G	SureFISH 17q12 HER2 191 kb P20 GR SureFISH Chr17 CEP 436 kb P20 BL SureFISH 17p11.2 RAI1 263 kb P20 RD SureFISH 17q12 HER2 191 kb P20 RD SureFISH Chr17 CEP 436 kb P20 BL SureFISH 17p11.2 RAI1 263 kb P20 GR	Copy Number	FITC Aqua Cy3 Cy3 Aqua FITC	20 20 20 20 20 20	ASR
HEY1 NCOA2	G110288G G110287R	SureFISH 8q21.13 HEY1 DF 774 kb P20 GR SureFISH 8q13.3 NCOA2 DF 700 kb P20 RD	Dual Fusion	FITC Cy3	20 20	ASR
IGF2-TH CEP 11	G110746R G110883G	SureFISH 11p15.5 IGF2-TH 100 kb P20 RD SureFISH Chr11 CEP 798 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
IGH	G110995G	SureFISH 14q32.33 IGH DF 1519 kb P20 GR	Dual Fusion	FITC	20	ASR
IGK IGL MYC	G110415G G110416G G110414R	SureFISH 2p11.2 IGK DF 1966 kb P20 GR SureFISH 22q11.22 IGL DF 1776 kb P20 GR SureFISH 8q24.21 MYC DF 2726 kb P20 RD	Dual Fusion	FITC FITC Cy3	20 20 20	ASR
IKZF1 CEP 7	G110220R G110398R G110302R G110899G	SureFISH 7p12.2 IKZF1 62 kb P20 RD SureFISH 7p12.2 IKZF1 128 kb P20 RD SureFISH 7p12.2 IKZF1 50 kb P20 RD SureFISH Chr7 CEP 767 kb P20 GR	Copy Number	Cy3 Cy3 Cy3 FITC	20 20 20 20	ASR
JAG1 CEP 20	G110231R G110886G	SureFISH 20p12.2 JAG1 152 kb P20 RD SureFISH Chr20 CEP 687 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
KAL1 CEP X	G110299R G110862G	SureFISH Xp22.31 KAL1 186 kb P20 RD SureFISH ChrX CEP 587 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
KANSL1 CEP 17	G110433G G110291R	SureFISH 17q21.31 KANSL1 186 kb P20 GR SureFISH Chr17 CEP 436 kb P20 RD	Copy Number	FITC Cy3	20 20	ASR
KCTD13 CEP 16	G110362R G110873G	SureFISH 16p11.2 KCTD13 548 kb P20 RD SureFISH Chr16 CEP 671 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
KIT CEP 4	G110257R G110866G	SureFISH 4q12 KIT 155 kb P20 RD SureFISH Chr4 CEP 613 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
KRAS CEP 12	G110372R G110890G	SureFISH 12p12.1 KRAS 354 kb P20 RD SureFISH Chr12 CEP 704 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
MAF IGH	G110380R G110388R G110995G	SureFISH 16q23.2 MAF DF 850 kb P20 RD SureFISH 16q23.2 MAF DF 604 kb P20 RD SureFISH 14q32.33 IGH DF 1519 kb P20 GR	Dual Fusion	Cy3 Cy3 FITC	20 20 20	ASR
MAFB IGH	G110378R G110995G	SureFISH 20q12 MAFB DF 803 kb P20 RD SureFISH 14q32.33 IGH DF 1519 kb P20 GR	Dual Fusion	Cy3 FITC	20 20	ASR
MAML2 CRTC1	G110478R G110479G	SureFISH 11q21 MAML2 DF 496 kb P20 RD SureFISH 19p13.11 CRTC1 DF 500 kb P20 GR	Dual Fusion	Cy3 FITC	20 20	ASR
MALAT1 CEP 11	G110239R G110883G	SureFISH 11q13.1 MALAT1 328 kb P20 RD SureFISH Chr11 CEP 798 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
MALT1 IGH	G110374R G110995G	SureFISH 18q21.32 MALT1 DF 672 kb P20 RD SureFISH 14q32.33 IGH DF 1519 kb P20 GR	Dual Fusion	Cy3 FITC	20 20	ASR
MAPT CEP 17	G110748G G110291R	SureFISH 17q21.31 MAPT 373 kb P20 GR SureFISH Chr17 CEP 436 kb P20 RD	Copy Number	FITC Cy3	20 20	ASR
MDM2 CEP 12	G110393R G110890G	SureFISH 12q15 MDM2 180 kb P20 RD SureFISH Chr12 CEP 704 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
MECOM RPN1	G110451G G110382R	SureFISH 3q26.2 MECOM DF 1209 kb P20 GR SureFISH 3q21.3 RPN1 DF 558 kb P20 RD	Dual Fusion	FITC Cy3	20 20	ASR
MECP2 CEP X	G110739R G110862G	SureFISH Xq28 MECP2 83 kb P20 RD SureFISH ChrX CEP 587 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
MET CEP 7	G110994R G110899G	SureFISH 7q31.2 MET 400 kb P20 RD SureFISH Chr7 CEP 767 kb P20 GR	Copy Number	Cy3 FITC	20 20	ASR
MLL3 CEP 7	G110757G G110286R	SureFISH 7q36.1 MLL3 129 kb P20 GR SureFISH Chr7 CEP 767 kb P20 RD	Copy Number	FITC Cy3	20 20	ASR

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
MMP7	G110240R	SureFISH 11q22.2 MMP7 312 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 11	G110883G	SureFISH Chr 11 CEP 798 kb P20 GR		FITC	20	
MORN-TNRSF14	G110753G	SureFISH 1p36 MORN1-TNFRSF14 297 kb P20 GR	Copy Number	FITC	20	ASR
	G110753R	SureFISH 1p36 MORN1-TNFRSF14 297 kb P20 RD		Cy3	20	
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR	Copy Number	FITC	20	ASR
	G110261R	SureFISH Chr1 CEP 541 kb P20 RD		Cy3	20	
MYB	G110426R	SureFISH 6q23 MYB 251 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 6	G110899G	SureFISH Chr6 CEP 706 kb P20 GR		FITC	20	
SEC63	G110449G	SureFISH 6q21 SEC63 241 kb P20 GR		FITC	20	
MYB	G110465R	SureFISH 6q23.3 MYB DF 500 kb P20 RD	Dual Fusion	Cy3	20	ASR
NFIB	G110466G	SureFISH 9p23 NFIB DF 500 kb P20 GR		FITC	20	
MYC	G110365R	SureFISH 8q24.21 MYC 294 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 8	G110977B	SureFISH 8q24.21 MYC 294 kb P20 BL		Aqua	20	
	G110834G	SureFISH Chr8 CEP 635 kb P20 GR		FITC	20	
MYC	G110396R	SureFISH 8q24.21 MYC DF 815 kb P20 RD	Dual Fusion	Cy3	20	ASR
	G110970B	SureFISH 8q24.21 MYC DF 815 kb P20 BL		Aqua	20	
IGH	G110995G	SureFISH 14q32.33 IGH DF 1519 kb P20 GR		FITC	20	
MYC	G110396R	SureFISH 8q24.21 MYC DF 815 kb P20 RD	Dual Fusion	Cy3	20	ASR
BCL6	G110462G	SureFISH 3q27.3 BCL6 DF 785 kb P20 GR		FITC	20	
MYCN	G110751R	SureFISH 2p24.3 MYCN 277 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 2	G110889G	SureFISH Chr2 CEP 448 kb P20 GR		FITC	20	
NDE1-MYH11	G110747G	SureFISH 16p13.1 NDE1-MYH11 445 kb P20 GR	Copy Number	FITC	20	ASR
CEP 16	G110270R	SureFISH Chr16 CEP 671 kb P20 RD		Cy3	20	
NF1	G110434G	SureFISH 17q11.2 NF1 332 kb P20 GR	Copy Number	FITC	20	ASR
CEP 17	G110291R	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
NF2	G110756G	SureFISH 22q12.2 NF2 119 kb P20 GR	Copy Number	FITC	20	ASR
CEP 22	G110279R	SureFISH Chr22 CEP 668 kb P20 RD		Cy3	20	
NINL	G110306R	SureFISH 20p11.21 NINL 369 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 20	G110886G	SureFISH Chr20 CEP 687 kb P20 GR		FITC	20	
NOTCH1	G110759R	SureFISH 9q34.3 NOTCH1 156 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 9	G110975G	SureFISH Chr9 CEP 367 kb P20 GR		FITC	20	
NOTCH2	G110371R	SureFISH 1p12 NOTCH2 81 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
NPHP1	G110742R	SureFISH 2q13 NPHP1 124 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 2	G110889G	SureFISH Chr2 CEP 448 kb P20 GR		FITC	20	
NRAS	G110912R	SureFISH 1p13.2 NRAS 310 kb P5 RD	Copy Number	Cy3	5	ASR
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
NSD1	G110755R	SureFISH 5q35 NSD1 240 kb P20 RD	Copy Number	Cy3	20	ASR
	G110375R	SureFISH 5q35.3 NSD1 321 kb P20 RD		Cy3	20	
CEP 5	G110867G	SureFISH Chr5 CEP 633 kb P20 GR		FITC	20	
PAFAH1B1	G110256R	SureFISH 17p13.3 PAFAH1B1 149 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 17	G110993G	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	
PAX5	G110341R	SureFISH 9p13.2 PAX5 741 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 9	G110975G	SureFISH Chr9 CEP 367 kb P20 GR		FITC	20	
PAX8	G110467R	SureFISH 2q13 PAX8 DF 326 kb P20 RD	Dual Fusion	Cy3	20	ASR
PPARG	G110468G	SureFISH 3p25.2 PPARG DF 326 kb P20 GR		FITC	20	
PBX1	G110292R	SureFISH 1q23.3 PBX1 DF 603 kb P20 RD	Dual Fusion	Cy3	20	ASR
TCF3	G110293G	SureFISH 19p13.3 TCF3 DF 729 kb P20 GR		FITC	20	
PDGFRA	G110740R	SureFISH 4q12 PDGFRA-CN 155 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 4	G110866G	SureFISH Chr4 CEP 613 kb P20 GR		FITC	20	
PIK3CA	G110250R	SureFISH 3q26.32 PIK3CA 157 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 3	G110865G	SureFISH Chr3 CEP 592 kb P20 GR		FITC	20	
PMP22	G110342R	SureFISH 17p12 PMP22 458 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 17	G110879B	SureFISH 17p12 PMP22 458 kb P20 BL		Aqua	20	
	G110993G	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
PRCC	G110436G-8	SureFISH 1q23.1 PRCC 451 kb P20 GR	Copy Number	FITC	20	ASR
CEP 1	G110261R-8	SureFISH Chr1 CEP 541 kb P20 RD		Cy3	20	
PTEN	G110202R-8	SureFISH 10q23.31 PTEN 160 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 10	G110884G-8	SureFISH Chr10 CEP 676 kb P20 GR		FITC	20	
RB1	G110284R	SureFISH 13q14.2 RB1 522 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 13	G110870G	SureFISH Chr13 CEP 454 kb P20 GR		FITC	20	
RREB1	G110401R	SureFISH 6p25.1 RREB1 638 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 6	G110868G	SureFISH Chr6 CEP 706 kb P20 GR		FITC	20	
RREB1	G110401G	SureFISH 6p25.1 RREB1 638 kb P20 GR	Copy Number	FITC	20	ASR
MYB	G110426X	SureFISH 6q23 MYB 251 kb P20 TR		Texas Red	20	
CCND1	G110212Y	SureFISH 11q13.3 CCND1 997 kb P20 GO		Gold	20	
CEP 6	G110868B	SureFISH Chr6 CEP 706 kb P20 BL		Aqua	20	
RX1T1	G110294R	SureFISH 8q21.3 RUNX1T1 DF 734 kb P20 RD	Dual Fusion	Cy3	20	ASR
RUNX1	G110230G	SureFISH 21q22.12 RUNX1 DF 672 kb P20 GR		FITC	20	
SEC63	G110449G	SureFISH 6q21 SEC63 241 kb P20 GR	Copy Number	FITC	20	ASR
CEP 6	G110265R	SureFISH Chr6 CEP 706 kb P20 RD		Cy3	20	
SHANK3	G110737G	SureFISH 22q13.33 SHANK3 70 kb P20 GR	Copy Number	FITC	20	ASR
CEP 22	G110279R	SureFISH Chr22 CEP 668 kb P20 RD		Cy3	20	
SMAD6	G110758G	SureFISH 15q22.31 SMAD6 182 kb P20 GR	Copy Number	FITC	20	ASR
CEP 15	G110269R	SureFISH Chr15 CEP 265 kb P20 RD		Cy3	20	
SMARCA4	G110233R	SureFISH 19p13.2 SMARCA4 102 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 19	G110875G	SureFISH Chr19 CEP 527 kb P20 GR		FITC	20	
SMARCB1	G110232R	SureFISH 22q11.23 SMARCB1 98 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 22	G110888G	SureFISH Chr22 CEP 668 kb P20 GR		FITC	20	
SNRPN	G110328R	SureFISH 15q11.2 SNRPN 232 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 15	G110872G	SureFISH Chr15 CEP 265 kb P20 GR		FITC	20	
SPON2	G110327R	SureFISH 4p16.3 SPON2 378 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 4	G110866G	SureFISH Chr4 CEP 613 kb P20 GR		FITC	20	
SRY	G110300R	SureFISH Yp11.31 SRY 131 kb P20 RD	Copy Number	Cy3	20	ASR
CEP Y	G110863G	SureFISH ChrY CEP 273 kb P20 GR		FITC	20	
STIL	G110238R	SureFISH 1p33 STIL 75 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb P20 GR		FITC	20	
TBL1XR1	G110717G	SureFISH 3q26.32 TBL1XR1 DF 846 kb P20 GR	Dual Fusion	FITC	20	ASR
TP63	G110716R	SureFISH 3q28 TP63 DF 760 kb P20 RD		Cy3	20	
TERC	G110211R	SureFISH 3q26 TERC 1014 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 3	G110865G	SureFISH Chr3 CEP 592 kb P20 GR		FITC	20	
TERT	G110210R	SureFISH 5p15.33 TERT 1107 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 5	G110867G	SureFISH Chr5 CEP 633 kb P20 GR		FITC	20	
TET2	G110741R	SureFISH 4q24 TET2 133 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 4	G110866G	SureFISH Chr4 CEP 613 kb P20 GR		FITC	20	
TFE3	G110241R	SureFISH Xp11.23 TFE3 523 kb P20 RD	Copy Number	Cy3	20	ASR
CEP X	G110862G	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	
TOP2A	G110308R	SureFISH 17q21.2 TOP2A 327 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 17	G110993G	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	
TP53	G110383G	SureFISH 17p13.1 TP53 120 kb P20 GR	Copy Number	FITC	20	ASR
	G110383R	SureFISH 17p13.1 TP53 120 kb P20 RD		Cy3	20	
	G110428B	SureFISH 17p13.1 TP53 247 kb P20 BL		Aqua	20	
CEP 17	G110291R	SureFISH Chr17 CEP 436 kb P20 RD		Cy3	20	
	G110993G	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	
TUPLE1	G110295R	SureFISH 22q11.21 TUPLE1 101 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 22	G110993G	SureFISH Chr22 CEP 668 kb P20 GR		FITC	20	
WT1	G110738R	SureFISH 11p13 WT1 89 kb P20 RD	Copy Number	Cy3	20	ASR
CEP 11	G110883G	SureFISH Chr11 CEP 798 kb P20 GR		FITC	20	
XIST	G110296R	SureFISH Xq13.2 XIST 161 kb P20 RD	Copy Number	Cy3	20	ASR
CEP X	G110862G	SureFISH ChrX CEP 587 kb P20 GR		FITC	20	

Target	Part number	Description	Probe type	Fluorochrome	Volume (μL)	Regulatory status
YWHAE	G110255R	SureFISH 17p13.3 YWHAE 172 kb P20 RD	Copy number	Cy3	20	ASR
CEP 17	G110993G	SureFISH Chr17 CEP 436 kb P20 GR		FITC	20	
ZNF217	G110440G	SureFISH 20q13.2 ZNF217 480 kb P20 GR	Copy Number	FITC	20	ASR
CEP20	G110277R	SureFISH Chr20 CEP 687 kb P20 RD		Cy3	20	

Centromere enumeration probes

Target	Part number	Description	Fluorochrome	Volume (μL)	Regulatory status
CEP 1	G110831G	SureFISH Chr1 CEP 541 kb	FITC	20	ASR
	G110261R		Cy3	20	
	G110864B		Aqua	20	
CEP 2	G110122G	SureFISH Chr2 CEP 448 kb	FITC	100	ASR
	G110889G		FITC	20	
	G110280R		Cy3	20	
	G110889B		Aqua	20	
CEP 3	G110865G	SureFISH Chr3 CEP 592 kb	FITC	20	ASR
	G110262R		Cy3	20	
	G110143X		Texas Red	100	
	G110974X		Texas Red	20	
CEP 4	G110866G	SureFISH Chr4 CEP 613 kb	FITC	20	ASR
	G110263R		Cy3	20	
	G110866B		Aqua	20	
CEP 5	G110867G	SureFISH Chr5 CEP 633 kb	FITC	20	ASR
	G110264R		Cy3	20	
	G110867B		Aqua	20	
CEP 6	G110868G	SureFISH Chr6 CEP 706 kb	FITC	20	ASR
	G110265R		Cy3	20	
	G110868B		Aqua	20	
CEP 7	G110119G	SureFISH Chr7 CEP 767 kb	FITC	100	ASR
	G110899G		FITC	20	
	G110286R		Cy3	20	
	G110899B		Aqua	20	
CEP 8	G110834G	SureFISH Chr8 CEP 635 kb	FITC	20	ASR
	G110248R		Cy3	20	
	G110834B		Aqua	20	
CEP 9	G110144G	SureFISH Chr9 CEP 367 kb	FITC	100	ASR
	G110975G		FITC	20	
	G110266R		Cy3	20	
	G110869B		Aqua	20	
CEP 10	G110124G	SureFISH Chr10 CEP 676 kb	FITC	100	ASR
	G110884G		FITC	20	
	G110276R		Cy3	20	
	G110884B		Aqua	20	
CEP 11	G110883G	SureFISH Chr11 CEP 798 kb	FITC	20	ASR
	G110275R		Cy3	20	
	G110883B		Aqua	20	

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

SureFISH concentrated high volume probes (100 µL)

Target	Part number	Description	Probe type	Fluorochrome	Volume (µL)	Regulatory status
Chr 1p/19q	G110101G	SureFISH 19p13.2 ZNF443 513 kb P100 GR	Copy Number	FITC	100	ASR
	G110103R	SureFISH 19q13.33 GLTSCR2 298 kb P100 RD		Cy3	100	
	G110100G	SureFISH 1q25.2 ABL2 600 kb P100 GR		FITC	100	
	G110102R	SureFISH 1p36.32 TPRG1L 332 kb P100 RD		Cy3	100	
BRAF	G110113G	SureFISH 7q34 BRAF 5' BA 510 kb P100 GR	Break Apart	FITC	100	ASR
	G110112R	SureFISH 7q34 BRAF 3' BA 414 kb P100 RD		Cy3	100	
CDKN2A	G110142X	SureFISH 9p21.3 CDKN2A 351 kb P100 TR	Copy Number	Texas Red	100	ASR
HER2	G110139G	SureFISH 17q12 HER2 191 kb P100 GR		FITC	100	
ZNF217	G110140Y	SureFISH 20q13.2 ZNF217 480 kb P100 GO		Gold	100	
CDKN2A	G110142Y	SureFISH 9p21.3 CDKN2A 351 kb P100 GO	Copy Number	Gold	100	ASR
CEP17	G110141B	SureFISH Chr17 CEP 436 kb P100 BL		Aqua	100	
CEP3	G110143X	SureFISH Chr3 CEP 592 kb P100 TR		Texas Red	100	
CEP7	G110119G	SureFISH Ch7 CEP 767 kb P100 GR		FITC	100	
CDK4	G110145R	SureFISH 12q14.1 CDK4 308 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 12	G110109G	SureFISH Chr12 CEP 704 kb P100 GR		FITC	100	
DDIT3	G110114G	SureFISH 12q13 DDIT3 3' BA 537 kb P100 GR	Break Apart	FITC	100	ASR
	G110115R	SureFISH 12q14 DDIT3 5' BA 498 kb P100 RD		Cy3	100	
DUSP22-IRF4	G110132G	SureFISH 6p25.3 DUSP22-IRF4 3' BA 235 kb P100 GR	Break Apart	FITC	100	ASR
	G110131R	SureFISH 6p25.3 DUSP22-IRF4 5' BA 48 kb P100 RD		Cy3	100	
EWSR1	G110107G	SureFISH 22q12.2 EWSR1 5' BA 564 kb P100 GR	Break Apart	FITC	100	ASR
	G110106R	SureFISH 22q12.2 EWSR1 3' BA 263 kb P100 RD		Cy3	100	
EGFR	G110120R	SureFISH 7p11.2 EGFR 188 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 7	G110119G	SureFISH Chr7 CEP 767 kb P100 GR		FITC	100	
FGFR2	G110146R	SureFISH 10q26 FGFR2 360 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 10	G110124G	SureFISH Chr10 CEP 676 kb P100 GR		FITC	100	
FOXO1	G110116G	SureFISH 13q14.11 FOXO1 3' BA 600 kb P100 GR	Break Apart	FITC	100	ASR
	G110117R	SureFISH 13q14.11 FOXO1 5' BA 601 kb P100 RD		Cy3	100	
FUS	G110133G	SureFISH 16p11.2 FUS 5' BA 457 kb P100 GR	Break Apart	FITC	100	ASR
	G110134R	SureFISH 16p11.2 FUS 3' BA 365 kb P100 RD		Cy3	100	
HER2	G110139G	SureFISH 17q12 HER2 191 kb P100 GR	Copy Number	FITC	100	ASR
HER2	G110104R	SureFISH 17q12 HER2 191 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 17	G110105G	SureFISH Chr17 CEP 436 kb P100 GR		FITC	100	
RAI1	G110137G	SureFISH 17p11.2 RAI1 263 kb P100 GR		FITC	100	
IGH	G110147G	SureFISH 14q32.33 IGH DF 1519 kb P100 GR	Dual Fusion	FITC	100	ASR
MAF	G110138R	SureFISH 16q23.2 MAF DF 604 kb P100 RD		Cy3	100	
MAML2	G110154G	SureFISH 11q21 MAML2 3' BA 399 kb P100 GR	Break Apart	FITC	100	ASR
	G110155R	SureFISH 11q21 MAML2 5' BA 264 kb P100 RD		Cy3	100	
MDM2	G110108R	SureFISH 12q15 MDM2 180 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 12	G110109G	SureFISH Chr12 CEP 704 kb P100 GR		FITC	100	
MET	G110118R	SureFISH 7q31.2 MET 400 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 7	G110119G	SureFISH Chr7 CEP 767 kb P100 GR		FITC	100	
MYB	G110150R	SureFISH 6q23.3 MYB 5' BA 400 kb P100 RD	Break Apart	Cy3	100	ASR
	G110151G	SureFISH 6q23.3 MYB 3' BA 394 kb P100 GR		FITC	100	
MYCN	G110121R	SureFISH 2p24.3 MYCN 277 kb P100 RD	Copy Number	Cy3	100	ASR
CEP 2	G110122G	SureFISH Chr2 CEP 448 kb P100 GR		FITC	100	
NTRK1	G110125G	SureFISH 1q21 NTRK1 5' BA 478 kb P100 GR	Break Apart	FITC	100	ASR
	G110126R	SureFISH 1q21 NTRK1 3' BA 380 kb P100 RD		Cy3	100	
NTRK2	G110128G	SureFISH 9q21.33 NTRK2 5' BA 406 kb P100 GR	Break Apart	FITC	100	ASR
	G110127R	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	SureFISH 15q25.3 NTRK3 5' BA 481 kb P100 GR	Break Apart	FITC	100	ASR
	G110129R	SureFISH 15q25.3 NTRK3 3' BA 435 kb P100 RD		Cy3	100	
PLAG1	G110152R	SureFISH 8q12.1 PLAG1 3' BA 400 kb P100 RD	Break Apart	Cy3	100	ASR
	G110153G	SureFISH 8q12.1 PLAG1 5' BA 400 kb P100 GR		FITC	100	
PDGFB COL1A1	G110157G	SureFISH 22q13.1 PDGFB DF 919 kb P100 GR	Dual Fusion	FITC	100	ASR
	G110156R	SureFISH 17q21.33 COL1A1 DF 789 kb P100 RD		Cy3	100	
PTEN CEP 10	G110123R	SureFISH 10q23.31 PTEN 160 kb P100 RD	Copy Number	Cy3	100	ASR
	G110124G	SureFISH Chr10 CEP 676 kb P100 GR		FITC	100	
ROS1-GOPC	G110135G	SureFISH ROS1-GOPC 3' BA 1132 kb P100 GR	Break Apart	FITC	100	ASR
	G110136R	SureFISH ROS1-GOPC 5' BA 245 kb P100 RD		Cy3	100	
SS18 (SYT)	G110110G	SureFISH 18q11.2 SS18 3' BA 616 kb P100 GR	Break Apart	FITC	100	ASR
	G110111R	SureFISH 18q11.2 SS18 5' BA 406 kb P100 RD		Cy3	100	
TFE3	G110148R	SureFISH Xp11.23 TFE3 5' BA 237 kb P100 RD	Break Apart	Cy3	100	ASR
	G110149G	SureFISH Xp11.23 TFE3 3' BA 540 kb P100 GR		FITC	100	

SureFISH concentrated high volume paired probes (200 µL)

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

SureFISH probes: Analyte Specific Reagent. Analytical and performance characteristics are not established.

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	FISH custom probe std 20rxn BL	20 tests	RUO
	G110997G	FISH custom probe std 20rxn GR	20 tests	RUO
	G110997R	FISH custom probe std 20rxn RD	20 tests	RUO
	G110997X	FISH custom probe std 20rxn TR	20 tests	RUO
	G110997Y	FISH custom probe std 20rxn GO	20 tests	RUO
Mouse target design (No QC)	G110999B	FISH custom probe sml 20rxn BL	20 tests	RUO
	G110999G	FISH custom probe sml 20rxn GR	20 tests	RUO
	G110999R	FISH custom probe sml 20rxn RD	20 tests	RUO
	G110999X	FISH custom probe sml 20rxn TR	20 tests	RUO
	G110999Y	FISH custom probe sml 20rxn GO	20 tests	RUO

Custom probes 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
GC20630-7	Dako Omnis Vial with Mixing Ball, 2 mL*	Box of 25	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

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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D75975
PR7001-1713

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© Agilent Technologies, Inc. 2022, 2023
Published in the USA, October 24, 2023
00034 2023OCT18

