

FISH

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	



Table of Contents

New SureFISH Probes

3

SureFISH Technology

4

Diagnostic IQFISH Assays for Manual Use

6

Diagnostic IQFISH Assays for Dako Omnis

7

High-Volume SureFISH Probe Concentrates

8

SureFISH Probes

10

FISH Accessories

22

New SureFISH Probes

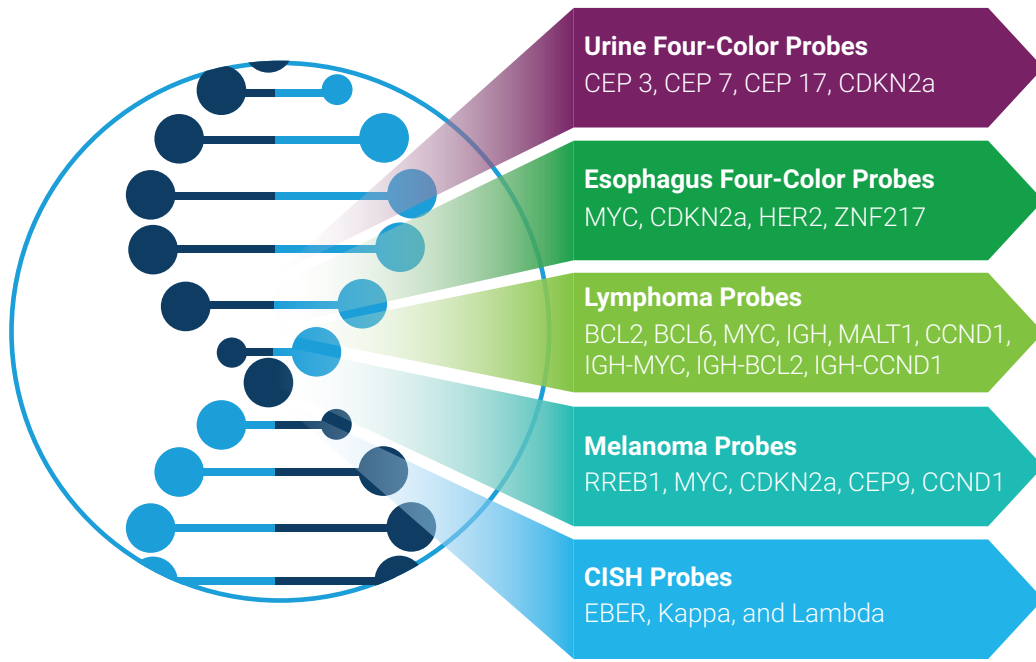


Figure 1. Agilent has expanded the ISH product portfolio by adding the capability to run four-color multiplex assays, lymphoma probes and CISH. Texas-red and gold-labeled probes are now available in addition to the current orange-red, green and aqua dyes. Previously the lymphoma break-apart and dual-fusion red- and green-labeled probes were provided in separate vials. Now they are available premixed to increase ease of use for our customers. CISH capabilities have also been enabled, expanding the SureFISH technology to design probes against RNA and mRNA, followed by conversion of the fluorescent signal to a chromogenic substrate.

MYC Break-Apart Probe Design

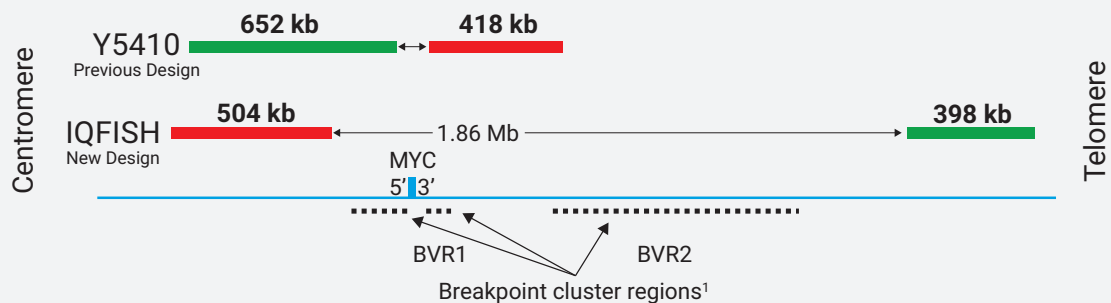


Figure 2. Oligo SureFISH allows Agilent to adapt to the ever changing molecular diagnostic field. Our previous MYC RUO probe (Y5410) was redesigned (G111642-2 MYC CE-IVD) to reflect recent data on breakpoint regions surrounding the MYC gene.

¹Muñoz-Marmol AM et al. MYC status determination in aggressive B-cell lymphoma: the impact of FISH probe selection. *Histopathology* (2013) 63: 418-424.

SureFISH Technology

Fluorescence *in situ* hybridization (FISH) is a laboratory procedure in which fluorescently labeled DNA fragments (the FISH probe) hybridize to complementary DNA sequences in the cell's nucleus. The resulting fluorescent signals are visualized using a microscope and indicate the presence and or modification of targeted DNA sequences.

Agilent offers several types of probes: break apart, dual fusion, copy number, centromere enumeration, and telomere.

Oligonucleotide-Based FISH Probes

Agilent's unique SureFISH DNA FISH probes are designed *in silico* and chemically synthesized using the company's high-fidelity, oligonucleotide library synthesis (OLS) technology. This eliminates the limitations of FISH probes manufactured with bacterial artificial chromosome (BAC) technology. (See Panel A.) Agilent is the only comprehensive DNA FISH probe supplier that does not use BAC technology in probe manufacturing.

Panel A. BAC FISH Probe Technology Limitations

BAC-based FISH probes are derived from a library of bacterial clones, each harboring a DNA fragment corresponding to a specific ~150 kb region of the human genome. BAC FISH technology is limited first by clone availability. The human genome is comprised of 3 billion base pairs, yet a typical BAC library consists of only about 20,000 clones. This limits the choice of probes and may result in low specificity of the probe to the region of interest. Secondly, BAC FISH probes are derived from fragmented, human genomic DNA, so they include many naturally occurring repetitive sequences. A staggering fifty percent of the human genome consists of repetitive DNA, including mini- and microsatellites, and transposable elements.* Cot-1 DNA is included as a "blocker" to reduce the non-specific binding. However, BAC-based probes still often produce high hybridization background signal, characterized by hazy fluorescence across cell nuclei, and in some cases other non-specific signals. Blocker can also inhibit overall hybridization and lead to signal suppression.

*Smit, AFA, Hubley, R & Green, P. RepeatMasker Open-4.0.2013-2015.

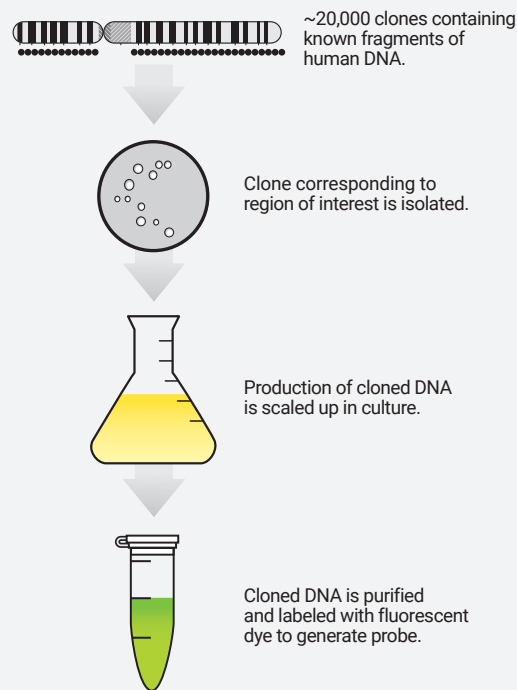
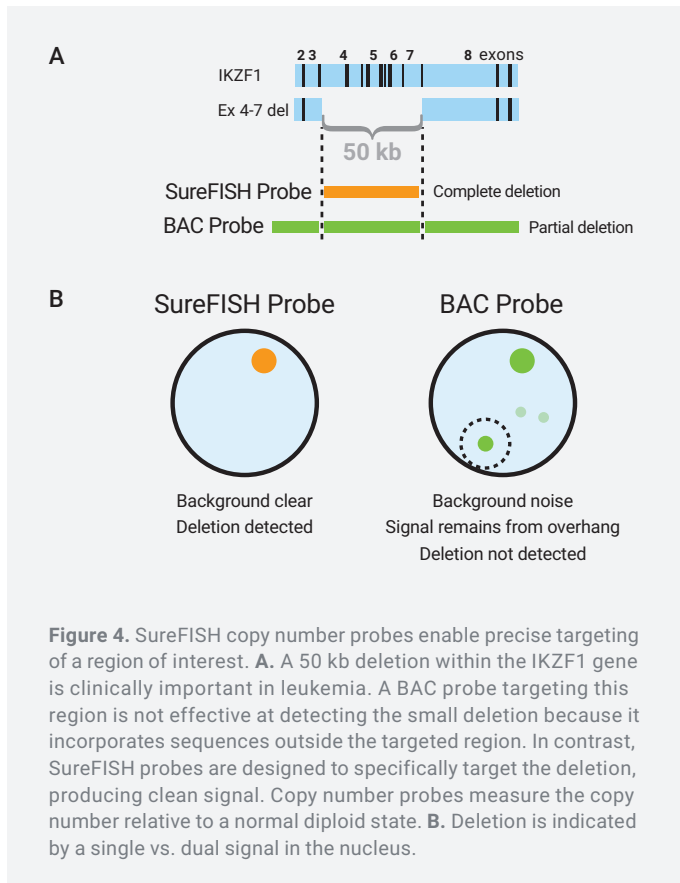


Figure 3. BAC probe production process.

High Probe Specificity – Precisely Target a Region of Interest

Designing probes on the computer “*in silico*” means complete design flexibility. An oligonucleotide (oligo) probe can be designed to precisely target any region of interest with base-pair level resolution (Figure 4). Precision probe design means higher probe specificity.

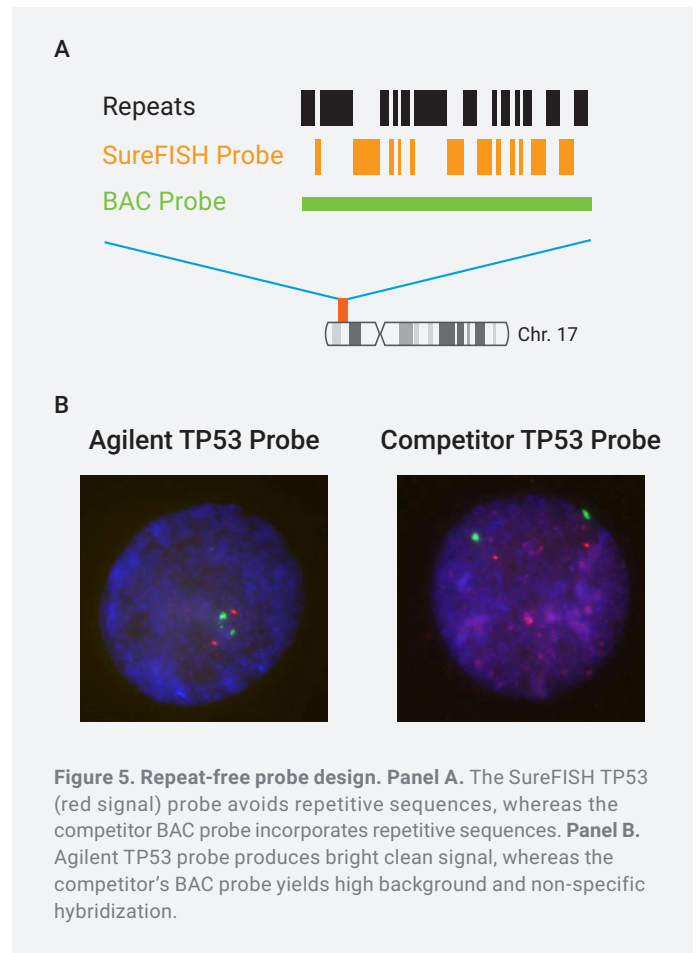


High Lot-to-lot Consistency – Free of Cell Culture

Agilent’s synthetic SureFISH probe production process ensures high lot-to-lot consistency. It completely eliminates the biological BAC probe production process, which may cause lot-to-lot variation.

High Signal-to-Noise Ratio – Free of Repetitive DNA

Achieving a robust signal and minimal background, often referred to as high signal-to-noise ratio, can be one of the main challenges that is encountered when implementing a FISH assay. Using *in silico* design methods to eliminate repetitive elements ensures that our chemically synthesized SureFISH probes offer our customers the highest quality. To ensure that every SureFISH probe is truly repeat-free and will produce clean signal, each oligo is sequence compared to the entire human genome to verify target specificity. All non-specific sequences are removed. Thus, SureFISH probes eliminate the need for blocking and the signal suppression produced by blocking agents (Figure 5).



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 probes, combined with the Dako FISH accessory kit, ensure consistent bright signal and superior tissue morphology.

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 probes are to be used on lung paraffin-embedded tissue sections.

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 probes are for use on formalin-fixed, paraffin-embedded (FFPE) tissue sections and are available in break-apart and dual-fusion methodologies.

IQFISH Panel for Lung Cancer

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
☪ ALK	G111600-8	ALK IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ ROS1	G111601-8	ROS1 IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ RET	G111602-8	RET IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ MET/CEP 7	G111603-8	MET IQFISH Probe with CEP 7	Copy Number	Orange-Red/Green	200

IQFISH Panel for Lymphoma

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
☪ BCL2	G111620-2	BCL2 IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ BCL6	G111621-2	BCL6 IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ CCND1	G111622-2	CCND1 IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ MALT1	G111619-2	MALT1 IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ MYC	G111623-2	MYC IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ IGH	G111624-2	IGH IQFISH Break-Apart Probe	Break Apart	Orange-Red/Green	200
☪ IGH/BCL2	G111627-2	IGH/BCL2 IQFISH Dual Fusion Probe	Dual Fusion	Orange-Red/Green	200
☪ IGH/CCND1	G111625-2	IGH/CCND1 IQFISH Dual Fusion Probe	Dual Fusion	Orange-Red/Green	200
☪ IGH/MYC	G111626-2	IGH/MYC IQFISH Dual Fusion Probe	Dual Fusion	Orange-Red/Green	200

Diagnostic IQFISH Assays for Dako Omnis

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 amplifications 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 lung paraffin-embedded (FFPE) tissue sections. The probes come ready-to-use in Dako Omnis vials.

CISH Panel for EBER, Kappa and Lambda

The CISH probes and associated detection reagents enable the automated chromogenic visualization of Epstein-Barr Virus (EBV) RNA and Kappa and Lambda mRNA expression on formalin-fixed paraffin-embedded (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. The CISH probes come ready-to-use in Dako Omnis vials.

Dako Omnis

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

IQFISH on Omnis – Lung Cancer

	Target	Part Number	Description	Probe Type	Fluorescent Color	Tests
CE	ALK	G111800-2	ALK IQFISH Break-Apart Probe (Dako Omnis)	Break Apart	Orange-Red/Green	RTU, 20 tests
CE	ROS1	G111801-2	ROS1 IQFISH Break-Apart Probe (Dako Omnis)	Break Apart	Orange-Red/Green	RTU, 20 tests
CE	RET	G111802-2	RET IQFISH Break-Apart Probe (Dako Omnis)	Break Apart	Orange-Red/Green	RTU, 20 tests
CE	MET/ CEP 7	G111803-2	MET IQFISH Probe with CEP 7 (Dako Omnis)	Copy Number	Orange-Red/Green	RTU, 20 tests

CISH on Omnis – EBER, Kappa, and Lambda

	Target	Part Number	Description	Probe Type	Tests
CE	Kappa/Lambda	G111700-2	Kappa and Lambda mRNA CISH (Dako Omnis)	CISH	RTU, 20 tests
CE	EBER	G111701-2	EBER RNA CISH (Dako Omnis)	CISH	RTU, 20 tests
CE	28S	G111702-2	Positive Control RNA CISH (Dako Omnis)	CISH	RTU, 20 tests

High-Volume SureFISH Probe Concentrates

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
MYC	G111923-8	SureFISH MYC BA	Break Apart	Orange-Red/Green	200
BCL2	G111924-8	SureFISH BCL2 BA	Break Apart	Orange-Red/Green	200
BCL6	G111925-8	SureFISH BCL6 BA	Break Apart	Orange-Red/Green	200
CCND1	G111926-8	SureFISH CCND1 BA	Break Apart	Orange-Red/Green	200
MALT1	G111927-8	SureFISH MALT1 BA	Break Apart	Orange-Red/Green	200
IGH	G111928-8	SureFISH IGH BA	Break Apart	Orange-Red/Green	200
IGH/MYC	G111929-8	SureFISH IGH MYC DF	Dual Fusion	Orange-Red/Green	200
IGH/BCL2	G111930-8	SureFISH IGH BCL2 DF	Dual Fusion	Orange-Red/Green	200
IGH/CCND1	G111931-8	SureFISH IGH CCND1 DF	Dual Fusion	Orange-Red/Green	200
FGFR2/CEP 10	G210981R-8	SureFISH 10q26 FGFR2 360 kb	Copy Number	Orange-Red	20 x 5
	G201959G-8	SureFISH Chr10 CEP 676 kb		Green	20 x 5
FGFR1/CEP 8	G201957R-8	SureFISH 8p11 FGFR1 325 kb	Copy Number	Orange-Red	20 x 5
	G201958G-8	SureFISH Chr8 CEP 635 kb		Green	20 x 5
MET/CEP 7	G210994R-8	SureFISH 7q31.2 MET 400 kb	Copy Number	Orange-Red	20 x 5
	G201919G-8	SureFISH Chr7 CEP 767 kb		Green	20 x 5
HER2/CEP 17	G201936R-8	SureFISH 17q12 HER2 191 kb	Copy Number	Orange-Red	20 x 5
	G210993G-8	SureFISH Chr17 CEP 436 kb		Green	20 x 5
RAI1	G201922G-8	SureFISH 17p11.2 RAI1 263 kb	Copy Number	Green	20 x 5
MDM2/CEP 12	G201944R-8	SureFISH 12q15 MDM2 180 kb	Copy Number	Orange-Red	20 x 5
	G201945G-8	SureFISH Chr12 CEP 704 kb		Green	20 x 5
DDIT3	G210982G-8	SureFISH 12q13 DDIT3 3' BA 537 kb	Break Apart	Green	20 x 5
	G210983R-8	SureFISH 12q14 DDIT3 5' BA 498 kb		Orange-Red	20 x 5
CDK4/CEP 12	G210978R-8	SureFISH 12q14.1 CDK4 308 kb	Copy Number	Orange-Red	20 x 5
	G201945G-8	SureFISH Chr12 CEP 704 kb		Green	20 x 5
SS18	G201946G-8	SureFISH 18q11.2 SS18 3' BA 616 kb	Break Apart	Green	20 x 5
	G201947R-8	SureFISH 18q11.2 SS18 5' BA 406 kb		Orange-Red	20 x 5
FOXO1	G210986G-8	SureFISH FOXO1 3' BA 600 kb	Break Apart	Green	20 x 5
	G210987R-8	SureFISH FOXO1 5' BA 601 kb		Orange-Red	20 x 5
EWSR1	G201941R-8	SureFISH EWSR1 3' BA 263 kb	Break Apart	Orange-Red	20 x 5
	G201942G-8	SureFISH EWSR1 5' BA 564 kb		Green	20 x 5

200 µl Volume

200 µl Volume (continued)

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
1p/19q	G201924G-8	SureFISH 19p13.2 ZNF443 513 kb	Copy Number	Green	20 x 5
	G201926R-8	SureFISH 19q13.33 GLTSCR2 298 kb		Orange-Red	20 x 5
	G201923G-8	SureFISH 1q25.2 ABL2 600 kb		Green	20 x 5
	G201925R-8	SureFISH 1p36.32 TPRG1L 332 kb		Orange-Red	20 x 5
BRAF	G201961R-8	SureFISH 7q34 BRAF 3' BA 414 kb	Break Apart	Orange-Red	20 µl x 5
	G201962G-8	SureFISH 7q34 BRAF 5' BA 510 kb		Green	20 µl x 5
HER2	G210969G-8	SureFISH 17q12 HER2 191 kb	Copy Number	Green	20 µl x 5
MYC	G210977B-8	SureFISH 8q24.21 MYC 294 kb	Copy Number	Aqua	20 µl x 5
CDKN2A	G210973X-8	SureFISH 9p21.3 CDKN2A 351 kb	Copy Number	Texas Red	20 µl x 5
ZNF217	G210971Y-8	SureFISH 20q13.2 ZNF217 480 kb	Copy Number	Gold	20 µl x 5
CDKN2A	G201965R-8	SureFISH 9p21.3 CDKN2A 351 kb	Copy Number	Orange-Red	20 µl x 5
CCND1	G210976G-8	SureFISH CCND1 577 kb	Copy Number	Green	20 µl x 5
RREB1	G201964R-8	SureFISH 6p25.1 RREB1 638 kb	Copy Number	Orange-Red	20 µl x 5
MYC	G210977B-8	SureFISH 8q24.21 MYC 294 kb	Copy Number	Aqua	20 µl x 5
CEP 9	G210975G-8	SureFISH Chr9 CEP 367 kb	Copy Number	Green	20 µl x 5



SureFISH Probes

Lung	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	ALK	G111400-8	SureFISH ALK BA	Break Apart	Orange-Red/Green	20
	ROS1	G111401-8	SureFISH ROS1 BA	Break Apart	Orange-Red/Green	20
	ROS1 GOPC	G100952G-8	SureFISH 6q22.1 ROS1 3' BA 1132 kb	Break Apart	Green	5
		G100953R-8	SureFISH 6q22.1 ROS1 5' BA 245 kb		Orange-Red	5
	RET	G111402-8	SureFISH RET BA	Break Apart	Orange-Red/Green	20
	MET (C-MET)	G110994R-8	SureFISH 7q31.2 MET 400 kb	Copy Number	Orange-Red	20
		G101919G-8	SureFISH Chr7 CEP 767 kb		Green	20
	EGFR (EGFR1, Her1)	G101948R-8	SureFISH 7p11.2 EGFR 188 kb 20	Copy Number	Orange-Red	20
		G101919G-8	SureFISH Chr7 CEP 767 kb		Green	20
ALK/EML4 inv(2) (p21p23)	G110919R-8	SureFISH 2p23.2 ALK 479 kb	Dual Fusion	Orange-Red	5	
	G110920G-8	SureFISH 2p21 EML4 496 kb		Green	5	

Breast / Gastric	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	HER2 (ERBB2)	G101936R-8	SureFISH 17q12 HER2 191 kb	Copy Number	Orange-Red	20
		G110969G-8	SureFISH 17q12 HER2 191 kb		Green	20
	HER2 (ERBB2)	G110969G-8	SureFISH 17q12 HER2 191 kb	Copy Number	Green	20
		G101105R-8	SureFISH Chr17 CEP 436 kb		Red	5
	TP53/HER2	G101921R-8	SureFISH 17p13.1 TP53 120 kb	Copy Number	Orange-Red	20
		G110969G-8	SureFISH 17q12 HER2 191 kb		Green	20
	RARA/HER2	G101920G-8	SureFISH 17q21.1 RARA 5' BA 600 kb	Copy Number	Green	20
		G101936R-8	SureFISH 17q12 HER2 191 kb		Orange-Red	20
	RAI1-SMSCR/HER2	G101922R-8	SureFISH 17p11.2 RAI1 263 kb	Copy Number	Orange-Red	20
		G110969G-8	SureFISH 17q12 HER2 191 kb		Green	20
	RAI1-SMSCR/HER2	G101922G-8	SureFISH 17p11.2 RAI1 263 kb	Copy Number	Green	20
		G101936R-8	SureFISH 17q12 HER2 191 kb		Orange-Red	20
	TOP2a/HER2	G101139R-8	SureFISH 17q21.2 TOP2A 327 kb	Copy Number	Orange-Red	5
		G110969G-8	SureFISH 17q12 HER2 191 kb		Green	20
	TOP2a/CEP 17	G101139R-8	SureFISH 17q21.2 TOP2A 327 kb	Copy Number	Orange-Red	5
		G101105R-8	SureFISH Chr17 CEP 436 kb		Orange-Red	5

	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
Lymphoma	MYC	G111423-8	SureFISH MYC BA P20	Break Apart	Orange-Red/Green	20
		G101228G-8	SureFISH 8q24.21 MYC 5' BA 632 kb		Green	5
	MYC (CMYC) Tri Color	G101229R-8	SureFISH 8q24.21 MYC 3' BA 432 kb	Break Apart	Orange-Red	5
		G101230B-8	SureFISH 8q24.21 MYC 3' TC 398 kb		Aqua	5
	MYC (CMYC) Dual Color	G101949G-8	SureFISH 8q24.21 MYC 5' BA 632 kb	Break Apart	Green	20
		G101950R-8	SureFISH 8q24.21 MYC 3' BA 432 kb		Orange-Red	20
	BCL2	G111421-8	SureFISH BCL2 BA	Break Apart	Orange-Red/Green	20
	BCL2	G110988R-8	SureFISH 18q21.33 BCL2 3' BA 389 kb	Break Apart	Orange-Red	20
		G110989G-8	SureFISH 18q21.33 BCL2 5' BA 598 kb		Green	20
	BCL6	G111422-8	SureFISH BCL6 BA	Break Apart	Orange-Red/Green	20
	BCL6	G110990R-8	SureFISH 3q27.3 BCL6 3' BA 371 kb	Break Apart	Orange-Red	20
		G110991G-8	SureFISH 3q28 BCL6 5' BA 481 kb		Green	20
	CCND1	G111443-8	SureFISH CCND1 BA	Break Apart	Orange-Red/Green	20
	CCND1 (BCL1)	G101953G-8	SureFISH 11q13 CCND1 3' BA 352 kb	Break Apart	Green	20
		G101954R-8	SureFISH 11q13 CCND1 5' BA 311 kb		Orange-Red	20
	MALT1	G111420-8	SureFISH MALT1 BA	Break Apart	Orange-Red/Green	20
	MALT1	G101951R-8	SureFISH 18q21 MALT1 5' BA 300 kb	Break Apart	Orange-Red	20
		G101952G-8	SureFISH 18q21 MALT1 3' BA 603 kb		Green	20
	IGH	G111424-8	SureFISH IGH BA	Break Apart	Orange-Red/Green	20
	IGH	G101939G-8	SureFISH 14q32.33 IGH 5' BA 641 kb	Break Apart	Green	20
		G101940R-8	SureFISH 14q32.33 IGH 3' BA 301 kb		Orange-Red	20
	IGH/MYC t(8;14) (q24;q32)	G111425-8	SureFISH IGH MYC DF	Dual Fusion	Orange-Red/Green	20
	IGH/MYC t(8;14) (q24;q32)	G110903G-8	SureFISH 14q32.33 IGH DF 1519 kb		Green	5
		G101041R-8	SureFISH 8q24.21 MYC DF 815 kb	Dual Fusion	Orange-Red	5
		G101034B-8	SureFISH Chr8 CEP		Blue	5
	IGH/MYC t(8;14) (q24;q32)	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb	Dual Fusion	Green	20
		G101955R-8	SureFISH 8q24.21 MYC DF 815 kb		Orange-Red	20
	IGH/BCL2 t(14;18) (q32;q21)	G111426-8	SureFISH IGH BCL2 DF	Dual Fusion	Orange-Red/Green	20
	IGH/BCL2 t(14;18) (q32;q21)	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb	Dual Fusion	Green	20
		G101956R-8	SureFISH 18q21.33 BCL2 DF 994 kb		Orange-Red	20
IGH/CCND1 t(11;14) (q13;q32)	G111442-8	SureFISH IGH CCND1 DF	Dual Fusion	Orange-Red/Green	20	

SureFISH Catalog

Lymphoma (continued)	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	IGH/CCND1 t(11;14) (q13;q32)	G110903G-8	SureFISH 14q32.33 IGH DF 1519 kb	Dual Fusion	Green	5
		G100960R-8	SureFISH 11q13.3 CCND1 997 kb		Orange-Red	5
		G101219R-8	SureFISH CCND1 DF 577 kb		Orange-Red	5
	BIRC3(API2)/MALT1 t(11;18)	G101223R-8	SureFISH 11q22.2 BIRC3 DF 674 kb	Dual Fusion	Orange-Red	5
		G101224G-8	SureFISH 18q21.32 MALT1 DF 672 kb		Green	5

Brain	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	1p	G101925R-8	SureFISH 1p36.32 TPRG1L 332 kb	Copy Number	Orange-Red	20
		G101923G-8	SureFISH 1q25.2 ABL2 600 kb		Green	20
	19q	G101924G-8	SureFISH 19p13.2 ZNF443 513 kb	Copy Number	Green	20
		G101926R-8	SureFISH 19q13.33 GLTSCR2 298 kb		Orange-Red	20
	nMYC	G110921R-8	SureFISH 2p24 MYCN 277 kb	Copy Number	Orange-Red	5
		G101089G-8	SureFISH Chr2 CEP 448 kb		Green	5
	PTEN	G100936R-8	SureFISH 10q23.31 PTEN 160 kb	Copy Number	Orange-Red	5
G101084G-8		SureFISH Chr10 CEP 676 kb	Green		5	

Soft Tissue	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	MDM2/CEP 12	G101944R-8	SureFISH 12q15 MDM2 180 kb	Copy Number	Orange-Red	20
		G101945G-8	SureFISH Chr12 CEP 704 kb		Green	20
	CDK4/CEP 12	G110978R-8	SureFISH 12q14.1 CDK4 308 kb	Copy Number	Orange-Red	20
		G101945G-8	SureFISH Chr12 CEP 704 kb		Green	20
	FOXO1	G110986G-8	SureFISH FOXO1 3' BA 600 kb	Break Apart	Green	20
		G110987R-8	SureFISH FOXO1 5' BA 601 kb		Orange-Red	20
	SS18 (SYT)	G101946G-8	SureFISH 18q11.2 SS18 3' BA 616 kb	Break Apart	Green	20
		G101947R-8	SureFISH 18q11.2 SS18 5' BA 406 kb		Orange-Red	20
	EWSR1	G101941R-8	SureFISH EWSR1 3' BA 263 kb	Break Apart	Orange-Red	20
		G101942G-8	SureFISH EWSR1 5' BA 564 kb		Green	20
	DDIT3 (CHOP)	G110982G-8	SureFISH 12q13 DDIT3 3' BA 537 kb	Break Apart	Green	20
		G110983R-8	SureFISH 12q14 DDIT3 5' BA 498 kb		Orange-Red	20
	FUS	G110929G-8	SureFISH 16p11.2 FUS 5' BA 457 kb	Break Apart	Green	20
		G110930R-8	SureFISH 16p11.2 FUS 3' BA 365 kb		Orange-Red	20
	PAX3	G100947G-8	SureFISH PAX3 3' BA 575 kb	Break Apart	Green	20
		G100948R-8	SureFISH PAX3 5' BA 285 kb		Orange-Red	20
	NCOA2/HEY1	G101101R-8	SureFISH 8q13.3 NCOA2 DF 700 kb	Dual Fusion	Orange-Red	20
		G101102G-8	SureFISH 8q21.13 HEY1 DF 774 kb		Green	20

Prostate	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	ERG	G101000R-8	SureFISH 21q22.13 ERG 3' BA 228 kb	Break Apart	Orange-Red	5
		G101001G-8	SureFISH 21q22.2 ERG 5' BA 505 kb		Green	5
	ERG/TMPRSS2	G110913G-8	SureFISH 21q22.13 ERG DF 777 kb	Dual Fusion	Green	5
		G110914R-8	SureFISH 21q22.3 TMPRSS2 DF 873 kb		Orange-Red	5
	ERG/TMPRSS2	G110915R-8	SureFISH 21q22.13 ERG 3p BA 426 kb	Tri Color	Orange-Red	5
		G110916G-8	SureFISH 21q22.2 ERG 5p BA 552 kb		Green	5
		G101082B-8	SureFISH 21q22.3 TMPRSS2 5p TC 529 kb		Aqua	5
	PTEN	G100936R-8	SureFISH 10q23.31 PTEN 160 kb	Copy Number	Orange-Red	5
		G101084G-8	SureFISH Chr10 CEP 676 kb		Green	5

Kidney	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	TFE3 (XP11)	G110906R-8	SureFISH TFE3 5' BA 237 kb	Break Apart	Orange-Red	5
		G110907G-8	SureFISH TFE3 3'BA 540 kb		Green	5

Skin	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)	
	1 Panel	RREB1	G101964R-8	SureFISH 6p25.1 RREB1 638 kb	Copy Number	Orange-Red	20
		MYC	G110970B-8	SureFISH 8q24.21 MYC 815 kb	Copy Number	Aqua	20
		CDKN2A	G101965R-8	SureFISH 9p21.3 CDKN2A 351 kb	Copy Number	Orange-Red	20
		CCND1	G110976G-8	SureFISH CCND1 577 kb	Copy Number	Green	20
		CEP 9	G110975G-8	SureFISH Chr9 CEP 367 kb	Copy Number	Green	20
	1 Panel	MYB	G101078R-8	SureFISH 6q23 MYB 251 kb	Copy Number	Orange-Red	5
		RREB1	G101237G-8	SureFISH 6p25.1 RREB1 638 kb	Copy Number	Green	5
		CCND1	G101219B-8	SureFISH CCND1 577 kb	Copy Number	Aqua	5

Fluorophores Used in Agilent 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
Blue (Aqua)	430-450	465-505

	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
ALL	BCR/ABL/ ASS1 t(9;22) (q34.12;q11.23)	G101233B-8	SureFISH 9q34.11 ASS1 367 kb	Dual Fusion	Aqua	5
		G101937G-8	SureFISH 22q11.21 BCR DF 1388 kb		Green	20
		G101938R-8	SureFISH 9q34.12 ABL DF 640 kb		Orange-Red	20
	MLL (KMT2A)	G101050R-8	SureFISH MLL 3' BA 199 kb	Break Apart	Orange-Red	5
		G101051G-8	SureFISH MLL 5' BA 497 kb		Green	5
	ETV6/RUNX1 (TEL/AML1) t(12;21) (p13;q22)	G101007R-8	SureFISH 12p13.2 ETV6 505 kb	Dual Fusion	Orange-Red	5
		G101081G-8	SureFISH 21q22.12 RUNX1 DF 672 kb		Green	5
	ETV6 (TEL) BA	G101080R-8	SureFISH 12p13.2 ETV6 3' BA 384 kb	Break Apart	Orange-Red	5
		G101079G-8	SureFISH 12p13.2 ETV6 5' BA 460 kb		Green	5
	TCF3/PBX1 (E2A/PBX1) t(1;19) (q23;p13)	G101106R-8	SureFISH 1q23.3 PBX1 DF 603 kb	Dual Fusion	Orange-Red	5
		G101107G-8	SureFISH 19p13.3 TCF3 DF 729 kb		Green	5
	CEP 4/10/17	G101066B-8	SureFISH Chr4 CEP 613 kb	Copy Number	Aqua	5
		G101084R-8	SureFISH Chr10 CEP 676 kb		Orange-Red	5
		G110910G-8	SureFISH Chr17 CEP 436 kb		Green	5
	CDKN2A (p16 deletion)(9p21)	G101189R-8	SureFISH 9p21.3 CDKN2A 188 kb	Copy Number	Orange-Red	5
		G101069G-8	SureFISH Chr9 CEP 367 kb		Green	5
	IKZF1	G101960R-8	SureFISH 7p12.2 IKZF1 128 kb	Copy Number	Orange-Red	20
		G101919G-8	SureFISH Chr7 CEP 767 kb		Green	20



	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
AML	PML/RARA t(15;17) (q22;q21)	G101605-8	SureFISH PML RARA DF	Dual Fusion	Orange-Red/Green	20
	RARA	G101093G-8	SureFISH 17q21.1 RARA 5' BA 600 kb	Break Apart	Green	5
		G101094R-8	SureFISH 17q21.2 RARA 3' BA 419 kb		Orange-Red	5
	5q31 del/EGR1 (5q del)	G101036R-8	SureFISH 5q31.2 EGR1 184 kb	Copy Number	Orange-Red	5
		G101037G-8	SureFISH 5p15.31 D5S630 370 kb		Green	5
	RUNX1T1/RUNX1 (ETO/AML1) t(8;21) (q21;q22)	G101108R-8	SureFISH 8q21.3 RUNX1T1 DF 734 kb	Dual Fusion	Orange-Red	5
		G101081G-8	SureFISH 21q22.12 RUNX1 DF 672 kb		Green	5
	CBFB (inv(16) (p13.3q22))	G101028R-8	SureFISH 16q22.1 CBFB 5' BA 240 kb	Break Apart	Orange-Red	5
		G101029G-8	SureFISH 16q22.1 CBFB 3' BA 284 kb		Green	5
	EVI1 (MECOM)	G101204G-8	SureFISH 3q26.2 MECOM 3' BA 451 kb	Break Apart (Tri Color)	Green	5
		G101205R-8	SureFISH 3q26.2 MECOM 5' BA 408 kb		Orange-Red	5
		G101206B-8	SureFISH 3q26.2 MECOM 5' TC 437 kb		Aqua	5
	EVI1 (MECOM)	G101204G-8	SureFISH 3q26.2 MECOM 3' BA 451 kb	Break Apart (Dual Color)	Green	5
		G100959R-8	SureFISH 3q26 TERC 1014 kb		Orange-Red	5
	NUP214	G101156G-8	SureFISH 9q34.12 NUP214 5' BA 548 kb	Break Apart	Green	5
		G101157R-8	SureFISH 9q34.13 NUP214 3' BA 447 kb		Orange-Red	5
	NUP98	G101140R-8	SureFISH 11p15.4 NUP98 3' BA 132 kb	Break Apart	Orange-Red	5
G101141G-8		SureFISH 11p15.4 NUP98 5' BA 416 kb	Green		5	

	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
CLL	17p13.1 TP53 (p53) /11p22.3 (ATM) del	G100950R-8	SureFISH 17p13.1 TP53 120 kb	Copy Number	Orange-Red	5
		G101201G-8	SureFISH 11q22.3 ATM 732 kb		Green	5
	13q14.3 del/13q34/ CEP 12 (D12Z3)	G101048R-8	SureFISH 13q14.2 D13S319 154 kb	Copy Number	Orange-Red	5
		G101090G-8	SureFISH Chr12 CEP 704 kb		Green	5
		G101200B-8	SureFISH 13q34 LAMP1 598 kb		Aqua	5
	MYB (6q23) del	G101078R-8	SureFISH 6q23 MYB 251 kb	Copy Number	Orange-Red	5
		G101068G-8	SureFISH Chr6 CEP 706 kb		Green	5
	BCL3	G101103R-8	SureFISH 19q13.31 BCL3 5' BA 305 kb	Break Apart	Orange-Red	5
		G101104G-8	SureFISH 19q13.32 BCL3 3' BA 451 kb		Green	5

SureFISH Catalog

MM/MPD	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	CEP 9/11/15	G101069R-8	SureFISH Chr9 CEP 367 kb	Copy Number	Orange-Red	5
		G101083G-8	SureFISH Chr11 CEP 798 kb		Green	5
		G101072B-8	SureFISH Chr15 CEP 265 kb		Aqua	5
	IGH/FGFR3 t(4;14) (p16.3;q32.3)	G110903G-8	SureFISH 14q32.33 IGH DF 1519 kb	Dual Fusion	Green	5
		G101118R-8	SureFISH 4p16.3 FGFR3 DF 623 kb		Orange-Red	5
	CDKN2C(P18)/ CKS1B (1p/1q)	G101158G-8	SureFISH 1p32.3 CDKN2C 426 kb	Copy Number	Green	5
		G101159R-8	SureFISH 1q21.3 CKS1B 386 kb		Orange-Red	5
	IGH/MAF t(14;16) (q32.3;q23)	G110995G-8	SureFISH 14q32.33 IGH DF 1519 kb	Dual Fusion	Green	20
		G101238R-8	SureFISH 16q23.2 MAF DF 850 kb		Orange-Red	5
PDGFRB (5q33)	G101121R-8	SureFISH 5q32 PDGFRB 3' BA 354 kb	Break Apart	Orange-Red	5	
	G101122G-8	SureFISH 5q32 PDGFRB 5' BA 435 kb		Green	5	
4q12 del (FIP1L1/ CHIC2/PDGFRB)	G101125G-8	SureFISH 4q12 FIP1L1 TC 500 kb	Tri Color	Green	5	
	G101126R-8	SureFISH 4q12 CHIC2 TC 469 kb		Orange-Red	5	
	G101127B-8	SureFISH 4q12 PDGFRB TC 481 kb		Aqua	5	

MDS	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	7q del/D7S486	G101032R-8	SureFISH 7q31.2 D7S486 200 kb	Copy Number	Orange-Red	5
		G110902G-8	SureFISH Chr7 CEP 767 kb		Green	5
	20q12 del (20q del)	G101033R-8	SureFISH D20S108 20q12 200 kb	Copy Number	Orange-Red	5
		G101148G-8	SureFISH 20p13 Chr20pTel 386 kb		Green	5
	CEP 8	G101034R-8	SureFISH Chr8 CEP 635 kb	Copy Number	Orange-Red	5
	5q33 del/CSF1R	G101035R-8	SureFISH 5q32 CSF1R 286 kb	Copy Number	Orange-Red	5
		G101037G-8	SureFISH 5p15.31 D5S630 370 kb		Green	5

Amniotic Fluid	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	13q14/21q22	G101095G-8	SureFISH 13q14.2 RB1 522 kb	Copy Number	Green	5
		G101096R-8	SureFISH 21q22.13 DSCR8 494 kb		Orange-Red	5
	CEP 18/X/Y	G101074B-8	SureFISH Chr18 CEP 711 kb	Copy Number	Aqua	5
		G101062G-8	SureFISH ChrX CEP 587 kb		Green	5
		G101063R-8	SureFISH ChrY CEP 273 kb		Orange-Red	5

Cervical	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	Terc	G101933R-8	SureFISH 3q26 TERC 1014 kb	Copy Number	Orange-Red	20
	Tert	G101932G-8	SureFISH 5p15.33 TERT 1107 kb	Copy Number	Green	20
	CEP 7	G101099B-8	SureFISH Chr7 CEP 767 kb	Copy Number	Aqua	5

Urine	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	CEP 3	G110974X-8	SureFISH Chr3 CEP 592 kb	Copy Number	Texas Red	20
	CEP 17	G110972B-8	SureFISH Chr17 CEP 436 kb	Copy Number	Aqua	20
	CDKN2A	G110973Y-8	SureFISH 9p21.3 CDKN2A 351 kb	Copy Number	Gold	20
CEP 7	G101919G-8	SureFISH Chr7 CEP 767 kb	Copy Number	Green	20	

Esophageal	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	HER2	G110969G-8	SureFISH 17q12 HER2 191 kb	Copy Number	Green	20
	MYC	G110970B-8	SureFISH 8q24.21 MYC 815 kb	Copy Number	Blue	20
	CDKN2A	G110973X-8	SureFISH 9p21.3 CDKN2A 351 kb	Copy Number	Texas Red	20
ZNF217	G110971Y-8	SureFISH 20q13.2 ZNF217 480 kb	Copy Number	Gold	20	

Microdeletions	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	22q11.2 TUPLE1 Digeorge	G101111R-8	SureFISH 22q11.21 TUPLE1 101 kb	Copy Number	Orange-Red	5
		G101112R-8	SureFISH Xq13.2 XIST 161 kb		Orange-Red	5
	Xq13.2 XIST/CEP X	G101062G-8	SureFISH ChrX CEP 587 kb	Copy Number	Green	5
		G101113R-8	SureFISH 15q11.2 D15S11 135 kb		Orange-Red	5
	15q11.2 D15S11 Prader-Willi/Angelman	G101113R-8	SureFISH 15q11.2 D15S11 135 kb	Copy Number	Orange-Red	5
	GABRB3 15q12 Prader-Willi/Angelman	G101114R-8	SureFISH 15q12 GABRB3 230 kb	Copy Number	Orange-Red	5
	Xp22.3 KAL Kallman	G101115R-8	SureFISH Xp22.31 KAL1 186 kb	Copy Number	Orange-Red	5
	YP11.3 SRY	G101116R-8	SureFISH Yp11.31 SRY 131 kb	Copy Number	Orange-Red	5
	Charcot-Marie-Tooth/ CEP 17	G101179R-8	SureFISH 17p12 PMP22 458 kb	Copy Number	Orange-Red	5
		G101105G-8	SureFISH Chr17 CEP 436 kb		Green	5
	Cri-du-Chat	G100959R-8	SureFISH 3q26 TERC 1014 kb	Copy Number	Orange-Red	20
G101065G-8		SureFISH Chr3 CEP 592 kb	Green		5	

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
CEP 1	G101064G-8	SureFISH Chr1 CEP 541 kb	Centromere Enumeration Probes	Green	5
	G101931G-8			Green	20
	G101931R-8			Orange-Red	5
	G101931B-8			Aqua	5
CEP 2	G101089G-8	SureFISH Chr2 CEP 448 kb	Centromere Enumeration Probe	Green	5
	G101089R-8			Orange-Red	5
	G101089B-8			Aqua	5
CEP 3	G101065G-8	SureFISH Chr3 CEP 592 kb	Centromere Enumeration Probe	Green	5
	G101065R-8			Orange-Red	5
	G110974X-8			Texas Red	20
	G101065B-8			Aqua	5
CEP 4	G101066G-8	SureFISH Chr4 CEP 613 kb	Centromere Enumeration Probe	Green	5
	G101066R-8			Orange-Red	5
	G101066B-8			Aqua	5
CEP 5	G101067G-8	SureFISH Chr5 CEP 633 kb	Centromere Enumeration Probe	Green	5
	G101067R-8			Orange-Red	5
	G101067B-8			Aqua	5
CEP 6	G101068G-8	SureFISH Chr6 CEP 706 kb	Centromere Enumeration Probe	Green	5
	G101068R-8			Orange-Red	5
	G101068B-8			Aqua	5
CEP 7	G110902G-8	SureFISH Chr7 CEP 767 kb	Centromere Enumeration Probe	Green	5
	G101919G-8			Green	20
	G101099R-8			Orange-Red	5
	G101099B-8			Aqua	5
CEP 8	G101034G-8	SureFISH Chr8 CEP 635 kb	Centromere Enumeration Probe	Green	5
	G101958G-8			Green	20
	G101034R-8			Orange-Red	5
	G101034B-8			Aqua	5
CEP 9	G101069G-8	SureFISH Chr9 CEP 367 kb	Centromere Enumeration Probe	Green	5
	G110975G-8			Green	20
	G101069R-8			Orange-Red	5
	G101069B-8			Aqua	5

Chromosome Enumeration

Chromosome Enumeration (continued)

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
CEP 10	G101084G-8	SureFISH Chr10 CEP 676 kb	Centromere Enumeration Probe	Green	5
	G101959G-8			Green	20
	G101084R-8			Orange-Red	5
	G101084B-8			Aqua	5
CEP 11	G101083G-8	SureFISH Chr11 CEP 798 kb	Centromere Enumeration Probe	Green	5
	G101943G-8			Green	20
	G101083R-8			Orange-Red	5
	G101083B-8			Aqua	5
CEP 12	G101090G-8	SureFISH Chr12 CEP 704 kb	Centromere Enumeration Probe	Green	5
	G101945G-8			Green	20
	G101090R-8			Orange-Red	5
	G101090B-8			Aqua	5
CEP 13	G101070G-8	SureFISH Chr13 CEP 454 kb	Centromere Enumeration Probe	Green	5
	G101070R-8			Orange-Red	5
	G101070B-8			Aqua	5
CEP 14	G101071G-8	SureFISH Chr14 CEP 536 kb	Centromere Enumeration Probe	Green	5
	G101071R-8			Orange-Red	5
	G101071B-8			Aqua	5
CEP 15	G101072G-8	SureFISH Chr15 CEP 265 kb	Centromere Enumeration Probe	Green	5
	G101963G-8			Green	20
	G101072R-8			Orange-Red	5
	G101072B-8			Aqua	5
CEP 16	G101073G-8	SureFISH Chr16 CEP 671 kb	Centromere Enumeration Probe	Green	5
	G101073R-8			Orange-Red	5
	G101073B-8			Aqua	5
CEP 17	G101105G-8	SureFISH Chr17 CEP 436 kb	Centromere Enumeration Probe	Green	5
	G110993G-8			Green	20
	G101105R-8			Orange-Red	5
	G101105B-8			Aqua	5
	G110972B-8			Aqua	20

Chromosome Enumeration (continued)	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	CEP 18	G101074G-8	SureFISH Chr18 CEP 711 kb	Centromere Enumeration Probe	Green	5
		G101074R-8			Orange-Red	5
		G101074B-8			Aqua	5
	CEP 19	G101075G-8	SureFISH Chr19 CEP 527 kb	Centromere Enumeration Probe	Green	5
		G101927G-8			Green	20
		G101075R-8			Orange-Red	5
		G101075B-8			Aqua	5
	CEP 20	G101086G-8	SureFISH Chr20 CEP 687 kb	Centromere Enumeration Probe	Green	5
		G101086R-8			Orange-Red	5
G101086B-8		Aqua			5	
CEP 21	G101087G-8	SureFISH Chr21 CEP 653 kb	Centromere Enumeration Probe	Green	5	
	G101087R-8			Orange-Red	5	
	G101087B-8			Aqua	5	
CEP 22	G101088G-8	SureFISH Chr22 CEP 668 kb	Centromere Enumeration Probe	Green	5	
	G101088R-8			Orange-Red	5	
	G101088B-8			Aqua	5	
CEP X	G101062G-8	SureFISH ChrX CEP 587 kb	Centromere Enumeration Probe	Green	5	
	G101062R-8			Orange-Red	5	
	G101062B-8			Aqua	5	
CEP Y	G101063G-8	SureFISH ChrY CEP 273 kb	Centromere Enumeration Probe	Green	5	
	G101063R-8			Orange-Red	5	
	G101063B-8			Aqua	5	





Telomeres	Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
	1p	G101182G-8	SureFISH 1p36.33 Chr1pTel 417 kb	Copy Number	Green	5
	1q	G101183G-8	SureFISH 1q44 Chr1qTel 402 kb	Copy Number	Green	5
	2p	G101184G-8	SureFISH 2p25.3 Chr2pTel 391 kb	Copy Number	Green	5
	2q	G101185G-8	SureFISH 2q37.3 Chr2qTel 415 kb	Copy Number	Green	5
	3p	G101186G-8	SureFISH 3p26.3 Chr3pTel 381 kb	Copy Number	Green	5
	3q	G101153G-8	SureFISH 3q29 Chr3qTel 380 kb	Copy Number	Green	5
	4p	G101187G-8	SureFISH 4p16.3 Chr4pTel 403 kb	Copy Number	Green	5
	4q	G101188G-8	SureFISH 4q35.2 Chr4qTel 408 kb	Copy Number	Green	5
	5p	G101191G-8	SureFISH 5p15.33 Chr5pTel 403 kb	Copy Number	Green	5
	5q	G101192G-8	SureFISH 5q35.3 Chr5qTel 397 kb	Copy Number	Green	5

Target	Part Number	Description	Probe Type	Fluorescent Color	Volume (µl)
6p	G101239G-8	SureFISH 6p25.3 Chr6pTel 423 kb	Copy Number	Green	5
6q	G101194G-8	SureFISH 6q27 Chr6qTel 390 kb	Copy Number	Green	5
7p	G101195G-8	SureFISH 7p22.3 Chr7pTel 426 kb	Copy Number	Green	5
7q	G101154G-8	SureFISH 7q36.3 Chr7qTel 396 kb	Copy Number	Green	5
8p	G101196G-8	SureFISH 8p23.3 Chr8pTel 406 kb	Copy Number	Green	5
8q	G101197G-8	SureFISH 8q24.3 Chr8qTel 397 kb	Copy Number	Green	5
9p	G101198G-8	SureFISH 9p24.3 Chr9pTel 428 kb	Copy Number	Green	5
9q	G101199G-8	SureFISH 9q34.3 Chr9qTel 429 kb	Copy Number	Green	5
10p	G101168G-8	SureFISH 10p15.3 Chr10pTel 372 kb	Copy Number	Green	5
10q	G101169G-8	SureFISH 10q26.3 Chr10qTel 391 kb	Copy Number	Green	5
11p	G101170G-8	SureFISH 11p15.5 Chr11pTel 408 kb	Copy Number	Green	5
11q	G101171G-8	SureFISH 11q25 Chr11qTel 398 kb	Copy Number	Green	5
12p	G101172G-8	SureFISH 12p13.33 Chr12pTel 407 kb	Copy Number	Green	5
12q	G101173G-8	SureFISH 12q24.33 Chr12qTel 424 kb	Copy Number	Green	5
13q	G101174G-8	SureFISH 13q34 Chr13qTel 357 kb	Copy Number	Green	5
14q	G101175G-8	SureFISH 14q32.33 Chr14qTel 415 kb	Copy Number	Green	5
15q	G101166G-8	SureFISH 15q26.3 Chr15qTel 391 kb	Copy Number	Green	5
16p	G101176G-8	SureFISH 16p13.3 Chr16pTel 428 kb	Copy Number	Green	5
16q	G101177G-8	SureFISH 16q24.3 Chr16qTel 424 kb	Copy Number	Green	5
17p	G101142G-8	SureFISH 17p13.3 Chr17pTel 402 kb	Copy Number	Green	5
17q	G101143G-8	SureFISH 17q25.3 Chr17qTel 405 kb	Copy Number	Green	5
18p	G101144G-8	SureFISH 18p11.32 Chr18pTel 403 kb	Copy Number	Green	5
18q	G101145G-8	SureFISH 18q23 Chr18qTel 413 kb	Copy Number	Green	5
19p	G101146G-8	SureFISH 19p13.3 Chr19pTel 409 kb	Copy Number	Green	5
19q	G101147G-8	SureFISH 19q13.43 Chr19qTel 405 kb	Copy Number	Green	5
20p	G101148G-8	SureFISH 20p13 Chr20pTel 386 kb	Copy Number	Green	5
20q	G101149G-8	SureFISH 20q13.33 Chr20qTel 379 kb	Copy Number	Green	5
21q	G101138G-8	SureFISH 21q22.3 Chr21qTel 394 kb	Copy Number	Green	5
22q	G101150G-8	SureFISH 22q13.33 Chr22qTel 383 kb	Copy Number	Green	5










Telomeres (continued)

FISH Accessories

Manual ISH Accessories

Product	Catalog ID	Kit Size
FISH Hybridization Buffer Cytology (overnight)	G9400A	100 µl
FISH Hybridization Buffer FFPE (overnight)	G9410A	100 µl
FISH Wash Buffer 1 (Post Hyb Stringency)	G9401A	500 mL
FISH Wash Buffer 2 (Post Hyb Stringency)	G9402A	500 mL
FISH Mounting Buffer without DAPI	G9403A	100 µl
FISH Mounting Buffer	G9404A	100 µl
FISH Hybridization and Mount Buffer 1X w DAPI (1 vial of each)	G9405A	100 µl
FISH Hybridization and Mount Buffer 3X w DAPI (3 vials of each)	G9406A	300 µl
FISH Hybridization and Mount Buffer 1X WO DAPI (1 vial of each)	G9407A	100 µl
ISH Pepsin Kit	G9411A	50 slides
IQFISH Fast Hybridization Buffer 200 µl*	G9415A	200 µl
IQFISH Fast Hybridization Buffer 200 µl x 6*	G9416A	200 µl x 6
 Dako Histology FISH Accessory kit	K579911-2	20 tests
 Dako Cytology Accessory Kit	K549911-2	20 tests
 Hybridizer, 220-240 volt	S245130	1 unit
 Hybridizer Humidity Control Strips	S245230-2	20 strips

Automated ISH Accessories

Product	Catalog ID	Kit Size
IQFISH Fast Hybridization Buffer 900*	G9414A	10 tests
 ISH Pepsin (Dako Omnis)	GM30211-2	20 tests, 7 mL
 ISH Ethanol Solution 96 (Dako Omnis)	GM30011-2	20 tests, 14 mL
 ISH Pre-Treatment Solution (Dako Omnis)	GM30111-2	175 mL 5-25 tests
 ISH Stringent Wash Buffer (Dako Omnis)	GM30311-2	175 mL 5-25 tests
 Fluorescence Mounting Medium (Dako Omnis)	GM30411-2	0.8 mL 20-40 tests
 ISH Cleaning Solution (Dako Omnis)	GC20730-2	10 mL, 100 tests
Dako Omnis ISH Lid	GC10230	Box of 5
 Dako Omnis Mixing Device	GC11630	1 mixer
 Dako Omnis Vial with Mixing Ball, 2 mL	GC20630-7	Box of 25
 Anti-FITC/AP CISH Accessory Kit (Dako Omnis)	K589911-2	40 tests

*For Laboratory Use

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

afr@nt-rt.ru || <https://agilent.nt-rt.ru/>