Updated February 2019

OVERVIEW OF SENSISCREEN® ASSAYS

SensiScreen® FFPE Catalogue numbers

Gene	SensiScreen® FFPE Ready-to-use	Strip #	Catalogue # 12; 60 reactions	SensiScreen® FFPE Dispense Ready	Catalogue # 20; 50 reactions
BRAF	V600 Multiplex Ready-to-use	B1	1831-1832	V600 Multiplex Dispense Ready	1398-1399
	V600 Simplex Ready-to-use (V600E, V600D, V600R and V600K)	B2	1836-1837	V600 Simplex Dispense Ready (V600E, V600D, V600R and V600K)	1402-1403
	V600E Simplex Ready-to-use	B3	1841-1842	V600E Simplex Dispense Ready	1400-1401
EGFR	Exon 18+19+20+21 Multiplex Ready to use	E1	5681-5682	Exon 18+19+20+21 Multiplex Dispense Ready	5670-5671
	G719 Multiplex Ready-to-use	E2	2081-2082	G719 Multiplex Dispense Ready	2085-2086
	G719 Simplex Ready-to-use	E3	3071-3072	G719 Simplex Dispense Ready	3027-3028
	Del 19 Multiplex Ready-to-use	E4	2071-2072	Del 19 Multiplex Dispense Ready	2075-2076
	S768I Simplex Ready-to-use	E5	2091-2092	S768I Simplex Dispense Ready	2095-2096
	T790M Simplex Ready-to-use	E6	2061-2062	T790M Simplex Dispense Ready	2065-2066
	Exon 20 Insertions Multiplex Ready-to-use	E7	3021-3022	Ex20Ins Multiplex Dispense Ready	3025-3026
	L858R Simplex Ready-to-use	E8	3001-3002	L858R Simplex Dispense Ready	3005-3006
	L861Q Simplex Ready-to-use	E9	3010-3012	L861Q Simplex Dispense Ready	3015-3016
	Del 19 Multiplex, T790M, L858R Ready-to-use	E10	5398-5399	Del 19 Multiplex, T790M, L858R Dispense Ready	3077-3078
KIT*	D816V Simplex Ready-to-use	I1	3031-3032	D816V Simplex Dispense Ready	3035-3036
KRAS	Exon 2+3+4 Multiplex Ready-to-use	K1	1701-1702	Exon 2+3+4 Multiplex Dispense Ready	1900-1901
	Exon 2 Multiplex Ready-to-use	K2	1706-1707	Exon 2 Multiplex Dispense Ready	1905-1906
	Exon 3 Multiplex Ready-to-use	K3	1711-1712	Exon 3 Multiplex Dispense Ready	1910-1911
	Exon 4 Multiplex Ready-to-use	K4	1716-1717	Exon 4 Multiplex Dispense Ready	1915-1916
	Exon 2 Simplex Ready-to-use	K5+K6	1721-1722	Exon 2 Simplex Dispense Ready	1920-1921
	Exon 2 Simplex Ready-to-use (G12R, G12C, G12S and G12V)	K5	1726-1727	Exon 2 Simplex A Dispense Ready (G12R, G12C, G12S and G12V)	1925-1926
	Exon 2 Simplex Ready-to-use (G12A, G12D and G13D)	K6	1731-1732	Exon 2 Simplex B Dispense Ready (G12A, G12D and G13D)	1930-1931
	Exon 3 Simplex Ready-to-use	K7+K8	1736-1737	Exon 3 Simplex Dispense Ready	1935-1936
	Exon 3 Simplex Ready-to-use (Q61H1, Q61K, Q61L and A59T)	K7	1741-1742	Exon 3 Simplex A Dispense Ready (Q61H1, Q61K, Q61L and A59T)	1940-1941
	Exon 3 Simplex Ready-to-use (Q61H2, Q61E, Q61R and A59G)	K8	1746-1747	Exon 3 Simplex B Dispense Ready (Q61H2, Q61E, Q61R and A59G)	1945-1946
	Exon 4 Simplex Ready-to-use	K9+K10	1751-1752	Exon 4 Simplex Dispense Ready	1950-1951
	Exon 4 Simplex Ready-to-use (K117N1 and K117N2)	K9	1756-1757	Exon 4 Simplex Dispense Ready (K117N1 and K117N2)	1955-1956
	Exon 4 Simplex Ready-to-use (A146P, A146T and A146V)	K10	1761-1762	Exon 4 Simplex Dispense Ready (A146P, A146T and A146V)	1960-1961
NRAS	Exon 2+3+4 Multiplex Ready-to-use	N1	1771-1772	Exon 2+3+4 Dispense Ready	2000-2001
	Exon 2 Multiplex Ready-to-us	N2	1776-1777	Exon 2 Multiplex Dispense Ready	2005-2006
	Exon 3 Multiplex Ready-to-use	N3	1781-1782	Exon 3 Multiplex Dispense Ready	2010-2011
	Exon 4 Multiplex Ready-to-use	N4	1786-1787	Exon 4 Multiplex Dispense Ready	2015-2016
	Exon 2 Simplex Ready-to-use	N5+N6	1791-1792	Exon 2 Simplex Dispense Ready	2020-2021
	Exon 2 Simplex Ready-to-use (G12A, G12C, G12D, G12R, G12S and G12V)	N5	1796-1797	Exon 2 Simplex Dispense Ready (G12A, G12C, G12D, G12R, G12S and G12V)	2025-2026
	Exon 2 Simplex Ready-to-use (G13A, G13C, G13D, G13R, G13S and G13V)	N6	1801-1802	Exon 2 Simplex Dispense Ready (G13A, G13C, G13D, G13R, G13S and G13V)	2030-2031
	Exon 3 Simplex Ready-to-use	N7+N8	1806-1807	Exon 3 Simplex Dispense Ready	2035-2036
	Exon 3 Simplex Ready-to-use (Q61H1, Q61H2, Q61K, Q61L and Q61R)	N7	1811-1812	Exon 3 Simplex A Dispense Ready (Q61H1, Q61H2, Q61K, Q61L and Q61R)	2040-2041
	Exon 3 Simplex Ready-to-use (A59D and A59T)	N8	1816-1817	Exon 3 Simplex B Dispense Ready (A59D and A59T)	2045-2046
	Exon 4 Simplex Ready-to-use	N9+N10	5356-5357	Exon 4 Simplex Dispense Ready	2048-2049
	Exon 4 Simplex Ready-to-use (N117N1 and N117N2)	N9	1821-1822	Exon 4 Simplex Dispense Ready (N117N1 and N117N2)	2050-2051
	Exon 4 Simplex Ready-to-use (A146P, A146T and A146V)	N10	1826-1827	Exon 4 Simplex Dispense Ready (A146P, A146T and A146V)	2055-2056

PIK3CA*	PIK3CA Multiplex Ready-to-use	P1	3041-3042	PIK3CA Multiplex Dispense Ready	3045-3046
	PIK3CA Simplex Ready-to-use (H1047R, H1047Y and H1047L)	P2	3051-3052	PIK3CA Simplex Dispense Ready (H1047R, H1047Y and H1047L)	3055-3056

* Research use only

SensiScreen® Liquid Catalogue numbers

Gene	SensiScreen® Liquid Ready-to-use	Strip #	Catalogue # 12; 60 reactions	SensiScreen® Liquid Dispense Ready	Catalogue # 20; 50 reactions
BRAF	V600 Multiplex Ready-to-use*	B1	5336-5337	V600 Multiplex Dispense Ready*	5525-5526
	V600 Simplex Ready-to-use (V600E+E2, V600D, V600R and V600K)	B2	5341-5342	V600 Simplex Dispense Ready (V600E+E2, V600D, V600R and V600K)	5530-5531
	V600E+E2 Simplex Ready-to-use	B3	5346-5347	V600E+E2 Simplex Dispense Ready	5535-5536
EGFR	Exon 18+19+20+21 Multiplex Ready to use*	E1	5686-5687	Exon 18+19+20+21 Multiplex Dispense Ready	5675-5676
	G719 Multiplex Ready-to-use*	E2	5366-5367	G719 Multiplex Dispense Ready	5550-5551
	G719 Simplex Ready-to-use*	E3	5391-5392	G719 Simplex Dispense Ready	5575-5576
	Del 19 Multiplex Ready-to-use	E4	5361-5362	Del 19 Multiplex Dispense Ready	5545-5546
	S768I Simplex Ready-to-use*	E5	5371-5372	S768I Simplex Dispense Ready	5555-5556
	T790M Simplex Ready-to-use	E6	5351-5352	T790M Simplex Dispense Ready	5540-5541
	Exon 20 Insertions Multiplex Ready-to-use*	E7	5386-5387	Ex20Ins Multiplex Dispense Ready	5570-5571
	L858R Simplex Ready-to-use	E8	5376-5377	L858R Simplex Dispense Ready	5560-5561
	L861Q Simplex Ready-to-use*	E9	5381-5382	L861Q Simplex Dispense Ready	5565-5566
	Del 19 Multiplex; T790M; L858R Ready-to-use	E10	5408-5409	Del 19 Multiplex; T790M; L858R Dispense Ready	3075-3076
KIT*	KIT D816V Simplex Ready-to-use	I1	5581-5582	KIT D816V Simplex Dispense Ready	5800-5801
KRAS*	Exon 2+3+4 Multiplex Ready-to-use	K1	5201-5202	Exon 2+3+4 Multiplex Dispense Ready	5395-5396
	Exon 2 Multiplex Ready-to-use	K2	5206-5207	Exon 2 Multiplex Dispense Ready	5400-5401
	Exon 3 Multiplex Ready-to-use	K3	5211-5212	Exon 3 Multiplex Dispense Ready	5405-5406
	Exon 4 Multiplex Ready-to-use	K4	5216-5217	Exon 4 Multiplex Dispense Ready	5410-5411
	Exon 2 Simplex Ready-to-use	K5+K6	5221-5222	Exon 2 Simplex Dispense Ready	5415-5416
	Exon 2 Simplex Ready-to-use (G12R, G12C, G12S and G12V)	K5	5226-5227	Exon 2 Simplex A Dispense Ready (G12R, G12C, G12S and G12V)	5420-5421
	Exon 2 Simplex Ready-to-use (G12A, G12D and G13D)	K6	5231-5232	Exon 2 Simplex B Dispense Ready (G12A, G12D and G13D)	5425-5426
	Exon 3 Simplex Ready-to-use	K7+K8	5236-5237	Exon 3 Simplex Dispense Ready	5430-5431
	Exon 3 Simplex Ready-to-use (Q61H1, Q61K, Q61L and A59T)	K7	5241-5242	Exon 3 Simplex A Dispense Ready (Q61H1, Q61K, Q61L and A59T)	5435-5436
	Exon 3 Simplex Ready-to-use (Q61H2, Q61E, Q61R and A59G)	K8	5246-5247	Exon 3 Simplex B Dispense Ready (Q61H2, Q61E, Q61R and A59G)	5440-5441
	Exon 4 Simplex Ready-to-use	K9+K10	5251-5252	Exon 4 Simplex Dispense Ready	5445-5446
	Exon 4 Simplex Ready-to-use (K117N1 and K117N2)	K9	5256-5257	Exon 4 Simplex Dispense Ready (K117N1 and K117N2)	5450-5451
	Exon 4 Simplex Ready-to-use (A146P, A146T and A146V)	K10	5261-5262	Exon 4 Simplex Dispense Ready (A146P, A146T and A146V)	5455-5456
NRAS*	Exon 2+3+4 Multiplex Ready-to-use	N1	5271-5272	Exon 2+3+4 Dispense Ready	5460-5461
	Exon 2 Multiplex Ready-to-us	N2	5276-5277	Exon 2 Multiplex Dispense Ready	5465-5466
	Exon 3 Multiplex Ready-to-use	N3	5281-5282	Exon 3 Multiplex Dispense Ready	5470-5471
	Exon 4 Multiplex Ready-to-use	N4	5286-5287	Exon 4 Multiplex Dispense Ready	5475-5476
	Exon 2 Simplex Ready-to-use	N5+N6	5291-5292	Exon 2 Simplex Dispense Ready	5480-5481
	Exon 2 Simplex Ready-to-use (G12A, G12C, G12D, G12R, G12S and G12V)	N5	5296-5297	Exon 2 Simplex Dispense Ready (G12A, G12C, G12D, G12R, G12S and G12V)	5485-5486
	Exon 2 Simplex Ready-to-use (G13A, G13C, G13D, G13R, G13S and G13V)	N6	5301-5302	Exon 2 Simplex Dispense Ready (G13A, G13C, G13D, G13R, G13S and G13V)	5490-5491
	Exon 3 Simplex Ready-to-use	N7+N8	5306-5307	Exon 3 Simplex Dispense Ready	5495-5495
	Exon 3 Simplex Ready-to-use (Q61H1, Q61H2, Q61K, Q61L and Q61R)	N7	5311-5312	Exon 3 Simplex A Dispense Ready (Q61H1, Q61H2, Q61K, Q61L and Q61R)	5500-5501
	Exon 3 Simplex Ready-to-use (A59D and A59T)	N8	5316-5317	Exon 3 Simplex B Dispense Ready (A59D and A59T)	5505-5506
	Exon 4 Simplex Ready-to-use	N9+N10	5321-5322	Exon 4 Simplex Dispense Ready	5510-5511
	Exon 4 Simplex Ready-to-use (N117N1 and N117N2)	N9	5326-5327	Exon 4 Simplex Dispense Ready (N117N1 and N117N2)	5515-5516
	Exon 4 Simplex Ready-to-use (A146P, A146T and A146V)	N10	5331-5332	Exon 4 Simplex Dispense Ready (A146P, A146T and A146V)	5520-5521
PIK3CA*	PIK3CA Multiplex Ready-to-use	P1	5586-5587	PIK3CA Multiplex Dispense Ready	5810-5811
	PIK3CA Simplex Ready-to-use (H1047R, H1047Y and H1047L)	P2	5591-5592	PIK3CA Simplex Dispense Ready (H1047R, H1047Y and H1047L)	5805-5806

* Research use only

Updated February 2019

SensiScreen® Dispense Ready Assay Contents

Each tube contains reagents for either 20 or 50 reactions

BRAF Assays

Gene	Tube #	Content	Mutations	Corresponding reference	Volume 20x	Volume 50x
BRAF V600 Multiplex	1	**BRAF Reference 1**			150 µL	375 µL
	2	BRAF V600 Multiplex	V600E+E2; V600D; V600K; V600R	BRAF Reference 1	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
BRAF V600 Simplex	1	**BRAF Reference 1**			150 µL	375 µL
	2	BRAF V600D Simplex	V600D	BRAF Reference 1	150 µL	375 µL
	3	BRAF V600E Simplex	V600E+E2	BRAF Reference 1	150 µL	375 µL
	4	BRAF V600K Simplex	V600K	BRAF Reference 1	150 µL	375 µL
	5	BRAF V600R Simplex	V600R	BRAF Reference 1	150 µL	375 µL
	6-7	Mastermix			1250 µL	3125 µL
BRAF V600E Simplex	1	**BRAF Reference 1**			150 µL	375 µL
	2	BRAF V600E Simplex	V600E+E2	BRAF Reference 1	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL

EGFR Assays

Gene	Tube #	Content	Mutations	Corresponding reference	Volume 20x	Volume 50x
EGFR Exon 18+19+20+21	1	**EGFR Reference 1 (F~) / 4 (L^)**			150 µL	375 µL
	2	EGFR G719 Multiplex	G719A; G719C; G719S	EGFR Reference 1/4	150 µL	375 µL
	3	EGFR exon 19 Deletions	35 deletions. See table 1.	EGFR Reference 1/4	150 µL	375 µL
	4	EGFR S768I + L861Q Multiplex	S768I; L861Q	EGFR Reference 1/4	150 µL	375 µL
	5	EGFR T790M Simplex	T790M	EGFR Reference 1/4	150 µL	375 µL
	6	EGFR exon 20 Insertions 1	13 insertions. See table 1.	EGFR Reference 1/4	150 µL	375 µL
	7	EGFR exon 20 Insertions 2	9 insertions. See table 1.	EGFR Reference 1/4	150 µL	375 µL
	8	EGFR L858R Simplex	L858R	EGFR Reference 1/4	150 µL	375 µL
	9-11	Mastermix			2000 µL	5000 µL
EGFR G719 Multiplex	1	**EGFR Reference 1**			150 µL	375 µL
	2	EGFR G719 Multiplex	G719A; G719C; G719S	EGFR Reference 1	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
EGFR G719 Simplex	1	**EGFR Reference 1**			150 µL	375 µL
	2	EGFR exon 18 G719A Simplex	G719A	EGFR Reference 1	150 µL	375 µL
	3	EGFR exon 18 G719C Simplex	G719C	EGFR Reference 1	150 µL	375 µL
	4	EGFR exon 18 G719S Simplex	G719S	EGFR Reference 1	150 µL	375 µL
	5-6	Mastermix			1000 µL	2500 µL
EGFR Exon 19 Deletions	1	**EGFR Reference 2**			150 µL	375 µL
	2	EGFR exon 19 Multiplex	35 deletions. See table 1.	EGFR Reference 2	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
EGFR S768I	1	**EGFR Reference 3**			150 µL	375 µL
	2	EGFR S768I Simplex	S768I	EGFR Reference 3	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
EGFR T790M	1	**EGFR Reference 4**			150 µL	375 µL
	2	EGFR T790M Simplex	T790M	EGFR Reference 4	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
EGFR Exon 20 Insertions	1	**EGFR Reference 5**			150 µL	375 µL
	2	EGFR exon 20 Multiplex 1	13 insertions. See table 1.	EGFR Reference 5	150 µL	375 µL
	3	EGFR exon 20 Multiplex 2	9 insertions. See table 1.	EGFR Reference 5	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
EGFR L858R	1	**EGFR Reference 6**			150 µL	375 µL
	2	EGFR L858R Simplex	L858R	EGFR Reference 6	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
EGFR L861Q	1	**EGFR Reference 7**			150 µL	375 µL
	2	EGFR L861Q Simplex	L861Q	EGFR Reference 7	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL
EGFR exon 19 deletions; T790M; L858R	1	**EGFR Reference 4**			150 µL	375 µL
	2	EGFR exon 19 Deletions	35 deletions. See table below.	EGFR Reference 4	150 µL	375 µL
	3	EGFR T790M Simplex	T790M	EGFR Reference 4	150 µL	375 µL
	4	EGFR L858R Simplex	L858R	EGFR Reference 4	150 µL	375 µL
	5-6	Mastermix			1000 µL	2500 µL

KIT D816V Assay

Gene	Tube #	Content	Mutations	Corresponding reference	Volume 20x	Volume 50x
KIT D816V*	1	**KIT Reference 1**			150 µL	375 µL
	2	KIT Simplex 1	D816V	KIT Reference 1	150 µL	375 µL
	3	Mastermix			500 µL	1250 µL

KRAS Assays

Gene	Tube #	Content	Mutations	Corresponding reference	Volume 20x	Volume 50x
KRAS exon 2+3+4 Multiplex	1	**KRAS Reference 1**			150 µL	375 µL
	2	KRAS exon 2 Multiplex 1	G12R; G12C; G12S; G12V	KRAS Reference 1	150 µL	375 µL
	3	KRAS exon 2 Multiplex 2	G12A; G12D; G13D	KRAS Reference 1	150 µL	375 µL
	4	**KRAS Reference 3**			160 µL	375 µL
	5	KRAS exon 3 Multiplex 1	Q61H1; Q61K; Q61L; A59T	KRAS Reference 3	150 µL	375 µL
	6	KRAS exon 3 Multiplex 2	Q61H2; Q61E; Q61R; A59G	KRAS Reference 3	150 µL	375 µL
	7	KRAS exon 4 Multiplex 1	K117N; K117N2	KRAS Reference 3	150 µL	375 µL
	8	KRAS exon 4 Multiplex 2	A146P; A146T; A146V	KRAS Reference 3	150 µL	375 µL
	9-11	Mastermix			2000 µL	5000 µL
KRAS exon 2 Multiplex	1	**KRAS Reference 1**			150 µL	375 µL
	2	KRAS exon 2 Multiplex 1	G12R; G12C; G12S; G12V	KRAS Reference 1	150 µL	375 µL
	3	KRAS exon 2 Multiplex 2	G12A; G12D; G13 D	KRAS Reference 1	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
KRAS exon 3 Multiplex	1	**KRAS Reference 2**			150 µL	375 µL
	2	KRAS exon 3 Multiplex 1	Q61H1; Q61K; Q61L; A59T	KRAS Reference 2	150 µL	375 µL
	3	KRAS exon 3 Multiplex 2	Q61H2; Q61E; Q61R; A59G	KRAS Reference 2	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
KRAS exon 4 Multiplex	1	**KRAS Reference 3**			150 µL	375 µL
	2	KRAS exon 4 Multiplex 1	K117N; K117N2	KRAS Reference 2	150 µL	375 µL
	3	KRAS exon 4 Multiplex 2	A146P; A146T; A146V	KRAS Reference 2	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
KRAS exon 2 Simplex 1	1	**KRAS Reference 1**			150 µL	375 µL
	2	KRAS exon 2 G12R Simplex	G12R	KRAS Reference 1	150 µL	375 µL
	3	KRAS exon 2 G12C Simplex	G12C	KRAS Reference 1	150 µL	375 µL
	4	KRAS exon 2 G12S Simplex	G12S	KRAS Reference 1	150 µL	375 µL
	5	KRAS exon 2 G12V Simplex	G12V	KRAS Reference 1	150 µL	375 µL
	6-7	Mastermix			1250 µL	3125 µL
KRAS exon 2 Simplex 2	1	**KRAS Reference 1**			150 µL	375 µL
	2	KRAS exon 2 G12A Simplex	G12A	KRAS Reference 1	150 µL	375 µL
	3	KRAS exon 2 G12D Simplex	G12D	KRAS Reference 1	150 µL	375 µL
	4	KRAS exon 2 G13D Simplex	G13D	KRAS Reference 1	150 µL	375 µL
	5-6	Mastermix			1000 µL	2500 µL
KRAS exon 3 Simplex 1	1	**KRAS Reference 2**			150 µL	375 µL
	2	KRAS exon 3 Q61H1 Simplex	Q61H1	KRAS Reference 2	150 µL	375 µL
	3	KRAS exon 3 Q61K Simplex	Q61K	KRAS Reference 2	150 µL	375 µL
	4	KRAS exon 3 Q61L Simplex	Q61L	KRAS Reference 2	150 µL	375 µL
	5	KRAS exon 3 A59T Simplex	A59T	KRAS Reference 2	150 µL	375 µL
	6-7	Mastermix			1250 µL	3125 µL
KRAS exon 3 Simplex 2	1	**KRAS Reference 2**			150 µL	375 µL
	2	KRAS exon 3 Q61H2 Simplex	Q61H2	KRAS Reference 2	150 µL	375 µL
	3	KRAS exon 3 Q61E Simplex	Q61E	KRAS Reference 2	150 µL	375 µL
	4	KRAS exon 3 Q61R Simplex	Q61R	KRAS Reference 2	150 µL	375 µL
	5	KRAS exon 3 A59G Simplex	A59G	KRAS Reference 2	150 µL	375 µL
	6-7	Mastermix			1250 µL	3125 µL
KRAS exon 4 Simplex 1	1	**KRAS Reference 3**			150 µL	375 µL
	2	KRAS exon 4 K117N1 Simplex	K117N	KRAS Reference 3	150 µL	375 µL
	3	KRAS exon 4 K117N2 Simplex	K117N2	KRAS Reference 3	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
KRAS exon 4 Simplex 2	1	**KRAS Reference 4**			150 µL	375 µL
	2	KRAS exon 4 A146P Simplex	A146P	KRAS Reference 4	150 µL	375 µL
	3	KRAS exon 4 A146T Simplex	A146T	KRAS Reference 4	150 µL	375 µL
	4	KRAS exon 4 A146V Simplex	A146V	KRAS Reference 4	150 µL	375 µL
	5-6	Mastermix			1000 µL	2500 µL

NRAS Assays

Gene	Tube #	Content	Mutations	Corresponding reference	Volume 20x	Volume 50x
NRAS exon 2+3+4 Multiplex	1	**NRAS Reference 1**			150 µL	375 µL
	2	NRAS exon 2 Multiplex 1	G12A; G12C; G12D; G12R; G12S; G12V	NRAS Reference 1	150 µL	375 µL
	3	NRAS exon 2 Multiplex 2	G13A; G13C; G13D; G13R; G13S; G13V	NRAS Reference 1	150 µL	375 µL
	4	**NRAS Reference 2**			150 µL	375 µL
	5	NRAS exon 3 Multiplex 1	Q61H1; Q61H2; Q61K; Q61L; Q61R	NRAS Reference 2	150 µL	375 µL
	6	NRAS exon 3 Multiplex 2	A59D; A59T	NRAS Reference 2	150 µL	375 µL
	7	NRAS exon 4 Multiplex 1	K117N1; K117N2	NRAS Reference 2	150 µL	375 µL
	8	NRAS exon 4 Multiplex 2	A146P; A146T; A146V	NRAS Reference 2	150 µL	375 µL
	9-11	Mastermix			2000 µL	5000 µL
NRAS exon 2 Multiplex	1	**NRAS Reference 1**			150 µL	375 µL
	2	NRAS exon 2 Multiplex 1	G12A; G12C; G12D; G12R; G12S; G12V	NRAS Reference 1	150 µL	375 µL
	3	NRAS exon 2 Multiplex 2	G13A; G13C; G13D; G13R; G13S; G13V	NRAS Reference 1	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
NRAS exon 3 Multiplex	1	**NRAS Reference 2**			150 µL	375 µL
	2	NRAS exon 3 Multiplex 1	Q61H1; Q61H2; Q61K; Q61L; Q61R	NRAS Reference 2	150 µL	375 µL
	3	NRAS exon 3 Multiplex 2	A59D; A59T	NRAS Reference 2	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL

NRAS exon 4 Multiplex	1	**NRAS Reference 3**			150 µL	375 µL
	2	NRAS exon 4 Multiplex 1	K117N1; K117N2	NRAS Reference 3	150 µL	375 µL
	3	NRAS exon 4 Multiplex 1	A146P; A146T; A146V	NRAS Reference 3	150 µL	375 µL
	4	Mastermix			700 µL	1250 µL
NRAS exon 2 Simplex 1	1	**Reference 1**			150 µL	375 µL
	2	NRAS exon 2 G12A Simplex	G12A	NRAS Reference 1	150 µL	375 µL
	3	NRAS exon 2 G12C Simplex	G12C	NRAS Reference 1	150 µL	375 µL
	4	NRAS exon 2 G12D Simplex	G12D	NRAS Reference 1	150 µL	375 µL
	5	NRAS exon 2 G12R Simplex	G12R	NRAS Reference 1	150 µL	375 µL
	6	NRAS exon 2 G12S Simplex	G12S	NRAS Reference 1	150 µL	375 µL
	7	NRAS exon 2 G12V Simplex	G12V	NRAS Reference 1	150 µL	375 µL
	8-10	Mastermix			1750 µL	4375 µL
NRAS exon 2 Simplex 2	1	**NRAS Reference 4**			150 µL	375 µL
	2	NRAS exon 2 G13A Simplex	G13A	NRAS Reference 4	150 µL	375 µL
	3	NRAS exon 2 G13C Simplex	G13C	NRAS Reference 4	150 µL	375 µL
	4	NRAS exon 2 G13D Simplex	G13D	NRAS Reference 4	150 µL	375 µL
	5	NRAS exon 2 G13R Simplex	G13R	NRAS Reference 4	150 µL	375 µL
	6	NRAS exon 2 G13S Simplex	G13S	NRAS Reference 4	150 µL	375 µL
	7	NRAS exon 2 G13V Simplex	G13V	NRAS Reference 4	150 µL	375 µL
	8-10	Mastermix			1750 µL	4375 µL
NRAS exon 3 Simplex 1	1	**NRAS Reference 2**			150 µL	375 µL
	2	NRAS exon 3 Q61H1 Simplex	Q61H1	NRAS Reference 2	150 µL	375 µL
	3	NRAS exon 3 Q61H2 Simplex	Q61H2	NRAS Reference 2	150 µL	375 µL
	4	NRAS exon 3 Q61K Simplex	Q61K	NRAS Reference 2	150 µL	375 µL
	5	NRAS exon 3 Q61L Simplex	Q61L	NRAS Reference 2	150 µL	375 µL
	6	NRAS exon 3 Q61R Simplex	Q61R	NRAS Reference 2	150 µL	375 µL
	7-8	Mastermix			1500 µL	3750 µL
NRAS exon 3 Simplex 2	1	**NRAS Reference 2**			150 µL	375 µL
	2	NRAS exon 3 A59D Simplex	A59D	NRAS Reference 2	150 µL	375 µL
	3	NRAS exon 3 A59T Simplex	A59T	NRAS Reference 2	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
NRAS exon 4 Simplex 1	1	**NRAS Reference 3**			150 µL	375 µL
	2	NRAS exon 4 K117N1 Simplex	K117N1	NRAS Reference 3	150 µL	375 µL
	3	NRAS exon 4 K117N2 Simplex	K117N2	NRAS Reference 3	150 µL	375 µL
	4	Mastermix			750 µL	1875 µL
NRAS exon 4 Simplex 2	1	**NRAS Reference 5**			150 µL	375 µL
	2	NRAS exon 4 A146P Simplex	A146P	NRAS Reference 5	150 µL	375 µL
	3	NRAS exon 4 A146T Simplex	A146T	NRAS Reference 5	150 µL	375 µL
	4	NRAS exon 4 A146V Simplex	A146V	NRAS Reference 5	150 µL	375 µL
	5-6	Mastermix			1000 µL	2500 µL

PIK3CA H1047 Assays

Gene	Tube #	Content	Mutations	Corresponding reference	Volume 20x	Volume 50x
PIK3CA Multiplex*	1	**PIK3CA Reference 1**			150 µL	375 µL
	2	PIK3CA Multiplex	H1047L, H1047R, H1047Y	PIK3CA Reference 1	150 µL	375 µL
	3	Mastermix			300 µL	1250 µL
PIK3CA Simplex*	1	**PIK3CA Reference 1**			150 µL	375 µL
	2	PIK3CA H1047L Simplex	H1047L	PIK3CA Reference 1	150 µL	375 µL
	3	PIK3CA H1047R Simplex	H1047R	PIK3CA Reference 1	150 µL	375 µL
	4	PIK3CA H1047Y Simplex	H1047Y	PIK3CA Reference 1	150 µL	375 µL
	5-6	Mastermix			1000 µL	2500 µL

~FFPE version, ^Liquid version. *Research use only.

Updated February 2019

SensiScreen® Ready-to-use Assay Contents

Each tube contains 20 µL in total (7,5 µL primer/probe-mix and 12,5 µL mastermix)

BRAF V600 Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
B1	**BRAF V600 Multiplex**	**A**	**BRAF Reference 1**		
		B	BRAF V600 Multiplex	V600E+E2; V600D; V600K; V600R	BRAF Reference 1
B2	**BRAF V600 Simplex**	**A**	**BRAF Reference 1**		
		B	BRAF V600 Simplex	V600D	BRAF Reference 1
		C	BRAF V600 Simplex	V600E+E2	BRAF Reference 1
		D	BRAF V600 Simplex	V600K	BRAF Reference 1
		E	BRAF V600 Simplex	V600R	BRAF Reference 1
B3	**BRAF V600E Simplex**	**A**	**BRAF Reference 1**		
		B	BRAF V600E Simplex	V600E+E2	BRAF Reference 1

EGFR Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
E1	**EGFR exon 18+19+20+21**	**A**	**EGFR Reference 1 (F~) / 4 (L^)**		
		B	EGFR G719 Multiplex	G719A; G719C; G719S	EGFR Reference 1/4
		C	EGFR exon 19 Deletions	35 deletions. See table 1.	EGFR Reference 1/4
		D	EGFR S768I + L861Q Multiplex	S768I; L861Q	EGFR Reference 1/4
		E	EGFR T790M Simplex	T790M	EGFR Reference 1/4
		F	EGFR exon 20 Insertions 1	13 insertions. See table 1.	EGFR Reference 1/4
		G	EGFR exon 20 Insertions 2	9 insertions. See table 1.	EGFR Reference 1/4
		H	EGFR L858R Simplex	L858R	EGFR Reference 1/4
E2	**EGFR G719 Multiplex**	**A**	**EGFR Reference 1**		
		B	EGFR G719 Multiplex	G719A; G719C; G719S	EGFR Reference 1
E3	**EGFR G719 Simplex**	**A**	**EGFR Reference 1**		
		B	EGFR G719A Simplex	G719A	EGFR Reference 1
		C	EGFR G719C Simplex	G719C	EGFR Reference 1
		D	EGFR G719S Simplex	G719S	EGFR Reference 1
E4	**EGFR exon 19 Deletions**	**A**	**EGFR Reference 2**		
		B	EGFR exon 19 Deletions	35 deletions. See table 1.	EGFR Reference 2
E5	**EGFR S768I**	**A**	**EGFR Reference 3**		
		B	EGFR S768I Simplex	S768I	EGFR Reference 3
E6	**EGFR T790M**	**A**	**EGFR Reference 4**		
		B	EGFR T790M Simplex	T790M	EGFR Reference 4
E7	**EGFR exon 20 Insertions**	**A**	**EGFR Reference 5**		
		B	EGFR exon 20 Insertions 1	13 insertions. See table 1.	EGFR Reference 5
		C	EGFR exon 20 Insertions 2	9 insertions. See table 1.	EGFR Reference 5
E8	**EGFR L858R**	**A**	**EGFR Reference 6**		
		B	EGFR L858R Simplex	L858R	EGFR Reference 6
E9	**EGFR L861Q**	**A**	**EGFR Reference 7**		
		B	EGFR L861Q Simplex	L861Q	EGFR Reference 7
E10	**EGFR exon 19 Deletions; T790M; L858R**	**A**	**EGFR Reference 4**		
		B	EGFR exon 19 Deletions	35 deletions. See table1.	EGFR Reference 4
		C	EGFR T790M Simplex	T790M	EGFR Reference 4
		D	EGFR L858R Simplex	L858R	EGFR Reference 4

KIT D816V Assay

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
I1*	**KIT**	**A**	**KIT Reference 1**		
		B	KIT Simplex 1	D816V	KIT Reference 1

KRAS Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
K1	**KRAS exon 2+3+4 Multiplex**	**A**	**KRAS Reference 1**		
		B	KRAS exon 2 Multiplex 1	G12R; G12C; G12S; G12V	KRAS Reference 1
		C	KRAS exon 2 Multiplex 2	G12A; G12D; G13D	KRAS Reference 1
		D	**KRAS Reference 3**		
		E	KRAS exon 3 Multiplex 1	Q61H1; Q61K; Q61L; A59T	KRAS Reference 3
		F	KRAS exon 3 Multiplex 2	Q61H2; Q61E; Q61R; A59G	KRAS Reference 3
		G	KRAS exon 4 Multiplex 1	K117N; K117N2	KRAS Reference 3
		H	KRAS exon 4 Multiplex 2	A146P; A146T; A146V	KRAS Reference 3
K2	**KRAS exon 2 Multiplex**	**A**	**KRAS Reference 1**		
		B	KRAS exon 2 Multiplex 1	G12R; G12C; G12S; G12V	KRAS Reference 1
		C	KRAS exon 2 Multiplex 2	G12A; G12D; G13D	KRAS Reference 1
K3	**KRAS exon 3 Multiplex**	**A**	**KRAS Reference 2**		
		B	KRAS exon 3 Multiplex 1	Q61H1; Q61K; Q61L; A59T	KRAS Reference 2

		C	KRAS exon 3 Multiplex 2	Q61H2; Q61E; Q61R; A59G	KRAS Reference 2
K4	KRAS exon 4 Multiplex	A	**KRAS Reference 3**		
		B	KRAS exon 4 Multiplex 1	K117N; K117N2	KRAS Reference 3
		C	KRAS exon 4 Multiplex 2	A146P; A146T; A146V	KRAS Reference 3
K5	KRAS exon 2 Simplex 1	A	**KRAS Reference 1**		
		B	KRAS exon 2 G12R Simplex	G12R	KRAS Reference 1
		C	KRAS exon 2 G12C Simplex	G12C	KRAS Reference 1
		D	KRAS exon 2 G12S Simplex	G12S	KRAS Reference 1
		E	KRAS exon 2 G12V Simplex	G12V	KRAS Reference 1
K6	KRAS exon 2 Simplex 2	A	**KRAS Reference 1**		
		B	KRAS exon 2 G12A Simplex	G12A	KRAS Reference 1
		C	KRAS exon 2 G12D Simplex	G12D	KRAS Reference 1
		D	KRAS exon 2 G13D Simplex	G13D	KRAS Reference 1
K7	KRAS exon 3 Simplex 1	A	**KRAS Reference 2**		
		B	KRAS exon 3 Q61H1 Simplex	Q61H1	KRAS Reference 2
		C	KRAS exon 3 Q61K Simplex	Q61K	KRAS Reference 2
		D	KRAS exon 3 Q61L Simplex	Q61L	KRAS Reference 2
		E	KRAS exon 3 A59T Simplex	A59T	KRAS Reference 2
K8	KRAS exon 3 Simplex 2	A	**KRAS Reference 2**		
		B	KRAS exon 3 Q61H2 Simplex	Q61H2	KRAS Reference 2
		C	KRAS exon 3 Q61E Simplex	Q61E	KRAS Reference 2
		D	KRAS exon 3 Q61R Simplex	Q61R	KRAS Reference 2
		E	KRAS exon 3 A59G Simplex	A59G	KRAS Reference 2
K9	KRAS exon 4 Simplex 1	A	**KRAS Reference 3**		
		B	KRAS exon 4 K117N1 Simplex	K117N1	KRAS Reference 3
		C	KRAS exon 4 K117N2 Simplex	K117N2	KRAS Reference 3
K10	KRAS exon 4 Simplex 2	A	**KRAS Reference 4**		
		B	KRAS exon 4 A146P Simplex	A146P	KRAS Reference 4
		C	KRAS exon 4 A146T Simplex	A146T	KRAS Reference 4
		D	KRAS exon 4 A146V Simplex	A146V	KRAS Reference 4

NRAS Assays

Strip #	Gene	Tube #	Content	Mutations	Corresponding reference
N1	NRAS exon 2+3+4 Multiplex	A	**NRAS Reference 1**		
		B	NRAS exon 2 Multiplex 1	G12A; G12C; G12D; G12R; G12S; G12V	NRAS Reference 1
		C	NRAS exon 2 Multiplex 2	G13A; G13C; G13D; G13R; G13S; G13V	NRAS Reference 1
		D	**NRAS Reference 2**		
		E	NRAS exon 3 Multiplex 1	Q61H1; Q61H2; Q61K; Q61L; Q61R	NRAS Reference 2
		F	NRAS exon 3 Multiplex 2	A59D; A59T	NRAS Reference 2
		G	NRAS exon 4 Multiplex 1	K117N1; K117N2	NRAS Reference 2
		H	NRAS exon 4 Multiplex 2	A146P; A146T; A146V	NRAS Reference 2
N2	NRAS exon 2 Multiplex	A	**NRAS Reference 1**		
		B	NRAS exon 2 Multiplex 1	G12A; G12C; G12D; G12R; G12S; G12V	NRAS Reference 1
		C	NRAS exon 2 Multiplex 2	G13A; G13C; G13D; G13R; G13S; G13V	NRAS Reference 1
N3	NRAS exon 3 Multiplex	A	**NRAS Reference 2**		
		B	NRAS exon 3 Multiplex 1	Q61H1; Q61H2; Q61K; Q61L; Q61R	NRAS Reference 2
		C	NRAS exon 3 Multiplex 2	A59D; A59T	NRAS Reference 2
N4	NRAS exon 4 Multiplex	A	**NRAS Reference 3**		
		B	NRAS exon 4 Multiplex 1	K117N1; K117N2	NRAS Reference 3
		C	NRAS exon 4 Multiplex 2	A146P; A146T; A146V	NRAS Reference 3
N5	NRAS exon 2 Simplex 1	A	**Reference 1**		
		B	NRAS exon 2 G12A Simplex	G12A	NRAS Reference 1
		C	NRAS exon 2 G12C Simplex	G12C	NRAS Reference 1
		D	NRAS exon 2 G12D Simplex	G12D	NRAS Reference 1
		E	NRAS exon 2 G12R Simplex	G12R	NRAS Reference 1
		F	NRAS exon 2 G12S Simplex	G12S	NRAS Reference 1
		G	NRAS exon 2 G12V Simplex	G12V	NRAS Reference 1
N6	NRAS exon 2 Simplex 2	A	**NRAS Reference 4**		
		B	NRAS exon 2 G13A Simplex	G13A	NRAS Reference 4
		C	NRAS exon 2 G13C Simplex	G13C	NRAS Reference 4
		D	NRAS exon 2 G13D Simplex	G13D	NRAS Reference 4
		E	NRAS exon 2 G13R Simplex	G13R	NRAS Reference 4
		F	NRAS exon 2 G13S Simplex	G13S	NRAS Reference 4
		G	NRAS exon 2 G13V Simplex	G13V	NRAS Reference 4
N7	NRAS exon 3 Simplex 1	A	**NRAS Reference 2**		
		B	NRAS exon 3 Q61H1 Simplex	Q61H1	NRAS Reference 2
		C	NRAS exon 3 Q61H2 Simplex	Q61H2	NRAS Reference 2
		D	NRAS exon 3 Q61K Simplex	Q61K	NRAS Reference 2
		E	NRAS exon 3 Q61L Simplex	Q61L	NRAS Reference 2
		F	NRAS exon 3 Q61R Simplex	Q61R	NRAS Reference 2
N8	NRAS exon 3 Simplex 2	A	**NRAS Reference 2**		
		B	NRAS exon 3 A59D Simplex	A59D	NRAS Reference 2
		C	NRAS exon 3 A59T Simplex	A59T	NRAS Reference 2
N9	NRAS exon 4 Simplex 1	A	**NRAS Reference 3**		
		B	NRAS exon 4 K117N1 Simplex	K117N1	NRAS Reference 3

		C	NRAS exon 4 K117N2 Simplex	K117N2	NRAS Reference 3
N10	NRAS exon 4 Simplex 2	A	**NRAS Reference 5**		
		B	NRAS exon 4 A146P Simplex	A146P	NRAS Reference 5
		C	NRAS exon 4 A146T Simplex	A146T	NRAS Reference 5
		D	NRAS exon 4 A146V Simplex	A146V	NRAS Reference 5
PIK3CA H1047 Assays					
Strip #	**Gene**	**Tube #**	**Content**	**Mutations**	**Corresponding reference**
P1*	PIK3CA Multiplex	A	**PIK3CA Reference 1**		
		B	PIK3CA Multiplex	H1047R; H1047Y, H1047L	PIK3CA Reference 1
P2*	PIK3CA Simplex	A	**PIK3CA Reference 1**		
		B	PIK3CA H1047L Simplex	H1047L	PIK3CA Reference 1
		C	PIK3CA H1047R Simplex	H1047R	PIK3CA Reference 1
		D	PIK3CA H1047Y Simplex	H1047Y	PIK3CA Reference 1

~FFPE version, ^Liquid version. *Research use only.

Overview of mutations detected by SensiScreen®

BRAF mutations detected with SensiScreen®

Assay	CDS mutation	Amino acid mutation	Cosmic ID
BRAF exon 15	c.1799_1800TG>AT	Val600Asp (V600D)	COSM477
	c.1799T>A	Val600Glu (V600E)	COSM476
	c.1799_1800TG>AA	Val600Glu (V600E)	COSM475
	c.1798_1799GT>AA	Val600Lys (V600K)	COSM473
	c.1798_1799GT>AG	Val600Arg (V600R)	COSM474

EGFR mutations detected with SensiScreen®

Assay	CDS mutation	Amino acid substitution	Cosmic ID	Assay
EGFR exon 18	c.2156G>C	Gly719Ala	COSM6239	
	c.2155G>A	Gly719Ser	COSM6252	
	c.2155G>T	Gly719Cys	COSM6253	
EGFR exon 19	c.2240_2251del12	p.L747_T751>S	COSM6210	
	c.2239_2247del9	p.L747_E749delLRE	COSM6218	
	c.2238_2255del18	p.E746_S752>D	COSM6220	
	c.2235_2249del15	p.E746_A750delELREA	COSM6223	
	c.2236_2250del15	p.E746_A750delELREA	COSM6225	
	c.2235_2246del12	p.E746_E749delELRE	COSM28517	
	c.2239_2256del18	p.L747_S752delLREATS	COSM6255	
	c.2237_2254del18	p.E746_S752>A	COSM12367	
	c.2240_2254del15	p.L747_T751delLREAT	COSM12369	
	c.2240_2257del18	p.L747_P753>S	COSM12370	
	c.2239_2248>C (complex)	p.L747_A750>P	COSM12382	
	c.2239_2251>C (complex)	p.L747_T751>P	COSM12383	
	c.2237_2255>T (complex)	p.E746_S752>V	COSM12384	
	c.2235_2255>AAT (complex)	p.E746_S752>I	COSM12385	
	c.2237_2252>T (complex)	p.E746_T751>V	COSM12386	
	c.2239_2258>CA (complex)	p.L747_P753>Q	COSM12387	
	c.2239_2256>CAA (complex)	p.L747_S752>Q	COSM12403	
	c.2237_2253>TTGCT (complex)	p.E746_T751>VA	COSM12416	
	c.2238_2252>GCA (complex)	p.L747_T751>Q	COSM12419	
	c.2238_2248>GC (complex)	p.L747_A750>P	COSM12422	
	c.2237_2251del15	p.E746_T751>A	COSM12678	
	c.2236_2253del18	p.E746_T751delELREAT	COSM12728	
	c.2235_2248>AATTC (complex)	p.E746_A750>IP	COSM13550	
	c.2235_2252>AAT (complex)	p.E746_T751>I	COSM13551	
	c.2235_2251>AATTC (complex)	p.E746_T751>IP	COSM13552	
	c.2237_2257>TCT (complex)	p.E746_P753>VS	COSM18427	
	c.2237_2251del15	p.L747_T751delLREAT	COSM23571	

	c.2233_2247del15	p.K745_E749delKELRE	COSM26038	
	c.2234_2248del15	p.K745_A750>T	COSM1190791	
	c.2236_2248>CAAC (complex)	p.E746_A750>QP	COSM13557	
	c.2232_2249del18	p.K745_A750delKELREA	COSM221565	
	c.2237_2253>TA (complex)	p.E746_T751>V	COSM133192	
	c.2239_2257>T (complex)	p.L747_P753>S	COSM133197	
	c.2239_2253>AAT (complex)	p.L747_T751>N	COSM51503	
	c.2236_2259>ATCTCG (complex)	p.E746_P753>IS	COSM133191	
EGFR exon 20	c.2369C>T	p.Thr790Met (T790M)	COSM6240	
	c.2303G>T	p.Ser768Ile	COSM6241	
	c.2300_2301insCAGCGTGGA	p.D770_N771insSVD	COSM3728433	Multiplex 1
	c.2302_2303insCGCTGGCCA	p.A767_S768insTLA	COSM12425	Multiplex 1
	c.2307_2308ins15	p.V769_D770insMASVD	COSM28638	Multiplex 1
	c.2307_2308insGCCAGCGTG	p.V769_D770insASV	COSM12376	Multiplex 1
	c.2308_2309insCCAGCGTGG	p.V769_D770insASV	COSM12426	Multiplex 1
	c.2308_2309insGGGTCGTGG	p.V769_D770insGVV	COSM18430	Multiplex 1
	c.2308_2309insGTT	p.D770>GY	COSM12427	Multiplex 1
	c.2309_2310AC>CCAGCGTGGAT	p.V769_D770insASV	COSM13558	Multiplex 1
	c.2310_2311insAGCGTGGAC	p.D770_N771insSVD	COSM85749	Multiplex 1
	c.2310_2311insGGCACA	p.D770_N771insGT	COSM1238029	Multiplex 1
	c.2310_2311insGGGTTT	p.D770_N771insGF	COSM655155	Multiplex 1
	c.2310_2311insGGT	p.D770_N771insG	COSM12378	Multiplex 1
	c.2310_2311insAACCCCCAC	p.H773_V774insNPH	COSM48920	Multiplex 1+2
	c.2310_2311ins9GCGTGGACA	p.D770_N771insSVD	COSM13428	Multiplex 2
	c.2316_2317insNNN	p.P772_H773insX	COSM21597	Multiplex 2
	c.2319_2320insAACCCCCAC	p.H773_V774insNPH	COSM12381	Multiplex 1+2
	c.2319_2320insCAC	p.H773_V774insH	COSM12377	Multiplex 2
	c.2319_2320insCCCCAC	p.H773_V774insPH	COSM12380	Multiplex 2
	c.2320_2321insCCCACG	p.H773_V774insAH	COSM1238028	Multiplex 2
	c.2321_2322insCCACGT	p.V774_C775insHV	COSM18432	Multiplex 2
	c.2322_2323insCACGTG	p.V774_C775insHV	COSM22948	Multiplex 2
EGFR exon 21	c.2573T>G c.2573_2574TG>GT	Leu858Arg Leu858Arg	COSM6224 COSM12429	
	c.2582T>A	Leu861Gln	COSM6213	

KIT mutations detected with SensiScreen®

Assay	CDS mutation	Amino acid substitution	Cosmic ID
KIT D816V	c.2447A>T	Asp816Val (D816V)	COSM314

KRAS mutations detected with SensiScreen®

Assay	CDS mutation	Amino acid mutation	Cosmic ID
KRAS exon 2	c.35G>C	Gly12Ala (G12A)	COSM522
	c.35G>A	Gly12Asp (G12D)	COSM521
	c.34G>C	Gly12Arg (G12R)	COSM518
	c.34G>T	Gly12Cys (G12C)	COSM516
	c.34G>A	Gly12Ser (G12S)	COSM517
	c.35G>T	Gly12Val (G12V)	COSM520
	c.38G>A	Gly13Asp (G13D)	COSM532
	c.34_35GG>TT	Gly12Phe (G12F)	COSM512
	c.34_35GG>AT	Gly12Ile (G12I)	COSM34144
KRAS exon 3	c.176C>G	Ala59Gly (A59G)	COSM28518
	c.175G>A	Ala59Thr (A59T)	COSM546
	c.183A>C	Gln61His (Q61H1)	COSM554
	c.183A>T	Gln61His (Q61H2)	COSM555
	c.181C>G	Gln61Glu (Q61E)	COSM550
	c.181C>A	Gln61Lys (Q61K)	COSM549
	c.182A>T	Gln61Leu (Q61L)	COSM553
	c.182A>G	Gln61Arg (Q61R)	COSM552
KRAS exon 4	c.351A>C	Lys117Asn (K117N1)	COSM19940
	c.351A>T	Lys117Asn (K117N2)	COSM28519
	c.436G>C	Ala146Pro (A146P)	COSM19905
	c.436G>A	Ala146Thr (A146T)	COSM19404
	c.437C>T	Ala146Val (A146V)	COSM19900

NRAS mutations detected with SensiScreen®

Assay	CDS mutation	Amino acid mutation	Cosmic ID
NRAS exon 2	c.35G>C	Gly12Ala (G12A)	COSM565
	c.34G>T	Gly12Cys (G12C)	COSM562
	c.35G>A	Gly12Asp (G12D)	COSM564
	c.34G>C	Gly12Arg (G12R)	COSM561
	c.34G>A	Gly12Ser (G12S)	COSM563
	c.35G>T	Gly12Val (G12V)	COSM566
	c.38G>C	Gly13Ala (G13A)	COSM575
	c.37G>T	Gly13Cys (G13C)	COSM570
	c.38G>A	Gly13Asp (G13D)	COSM573
	c.37G>C	Gly13Arg (G13R)	COSM569
	c.37G>A	Gly13Ser (G13S)	COSM571
	c.38G>T	Gly13Val (G13V)	COSM574
NRAS exon 3	c.183A>T	Gln61His (Q61H1)	COSM585
	c.183A>C	Gln61His (Q61H2)	COSM586
	c.181C>A	Gln61Lys (Q61K)	COSM580
	c.182A>T	Gln61Leu (Q61L)	COSM583
	c.182A>G	Gln61Arg (Q61R)	COSM584
	c.176C>A	Ala59Asp (A59D)	COSM253327
	c.175G>A	Ala59Thr (A59T)	COSM578
NRAS exon 4	c.351G>C	Lys117Asn (K117N1)	N/A
	c.351G>T	Lys117Asn (K117N2)	N/A
	c.436G>C	Ala146Pro (A146P)	(COSM4172577)
	c.436G>A	Ala146Thr (A146T)	COSM27174
	c.437C>T	Ala146Val (A146V)	COSM4170228

PIK3CA mutations detected with SensiScreen®

Assay	CDS mutation	Amino acid substitution	Cosmic ID
PIK3CA	c.3140A>T	p.H1047L	COSM776
	c.3140A>G	p.H1047R	COSM775
	c.3139C>T	p.H1047Y	COSM774