

Overzicht van onderzochte genen/exonen van het Lymphoid NGS haloplex HS panel.

Referentiegenoom GRCh37(hg19)

gen	RefSeq	LRG	Exon(en)	Type
ARID1A	NM_006015.6	LRG_875 t1	Alle	Tumor Suppressor
ATM	NM_000051.3	LRG_135 t1	8, 9, 12, 17, 26, 34-37, 39, 40, 50, 54-56, 59, 61, 63	Tumor Suppressor
B2M	NM_004048.3		Alle	Tumor Suppressor
BCL2	NM_000633.2		Alle	Oncogen
BIRC3	NM_001165.4		Alle	Tumor Suppressor
BRAF	NM_004333.5	LRG_299 t1	11, 15	Oncogen
BTB	NM_000061.2	LRG_128 t1	15	Oncogen
CARD11	NM_032415.5		4-9, 15	Oncogen
CD28	NM_006139.3		Alle	Oncogen
CD58	NM_001779.2		Alle	Tumor Suppressor
CD79A	NM_001783.3	LRG_42 t1	4, 5	Oncogen
CD79B	NM_001039933.1	LRG_43 t1	5, 6	Oncogen
CDKN2A	NM_000077.4	LRG_11 t1	2	Tumor Suppressor
CREBBP	NM_004380.2		Alle	Tumor Suppressor
CXCR4	NM_003467.2	LRG_51 t1	2	Oncogen
DNMT3A	NM_175629.2	LRG_459 t4	4, 8-23	Tumor Suppressor
DDX3X	NM_001356.4		Alle	Tumor Suppressor
EP300	NM_001429.3		Alle	Tumor Suppressor
EZH2	NM_004456.4	LRG_531 t1	Alle	Tumor Suppressor/Oncogen
FBXW7	NM_33632.3	LRG_1141 t1	9, 10	Tumor Suppressor
FGFR1	NM_023110.2	LRG_993 t1	7, 12, 14	Oncogen
FGFR2	NM_000141.4	LRG_994 t1	7, 8, 9, 12, 14	Oncogen
FGFR3	NM_000142.4	LRG_1021 t1	7, 9, 12, 14, 16	Oncogen
FOXO1	NM_002015.3		1	Tumor Suppressor
GNA13	NM_006572.5		Alle	Tumor Suppressor
ID3	NM_002167.4		Alle	Tumor Suppressor
IDH1	NM_005896.3	LRG_610 t1	4	Oncogen
IDH2	NM_002168.3	LRG_611 t2	4	Oncogen
IKZF1	NM_006060.6		Alle	Tumor Suppressor
IRF4	NM_002460		2, 3	Tumor Suppressor/Oncogen
JAK1	NM_002227		13-16, 19	Oncogen
JAK2	NM_004972.3	LRG_612 t1	12, 14, 16, 19, 20	Oncogen
JAK3	NM_000215.3	LRG_77 t1	4, 5, 13, 16	Oncogen
KMT2D/MLL2	NM_003482.3		Alle	Tumor Suppressor
KRAS	NM_004985.4		2, 3, 4	Oncogen
MAP2K1	NM_002755.3	LRG_725 t1	2, 3	Oncogen
MEF2B	NM_001145785.1		4, 5	Oncogen
MYC	NM_002467.5		Alle	Oncogen
MYD88	NM_002468.4		3, 4, 5	Oncogen
NFKBIE	NM_004556.2		1	Tumor Suppressor
NOTCH1	NM_017617.5	LRG_1122 t1	26, 27, 34	Tumor Suppressor/Oncogen

NOTCH2	NM_024408.3		34	Tumor Suppressor/Oncogen
NRAS	NM_002524.3	LRG_92 t1	2, 3	Oncogen
PDGFRA	NM_006206.4	LRG_309 t1	12, 14, 15, 18	Oncogen
PIM1	NM_002648		Alle	Oncogen
PLCG2	NM_002661.3	LRG_376 t1	19, 20, 24	Oncogen
PTEN	NM_000314.8	LRG_311 t1	5-9	Tumor Suppressor
RHOA	M_001664.3		2	Tumor Suppressor/Oncogen
SF3B1	NM_012433.3	LRG_624 t2	13-17	Oncogen
SOCS1	NM_003745.1		Alle	Tumor Suppressor
STAT3	NM_139276.2	LRG_112 t1	20, 21	Oncogen
STAT5B	NM_012448.3	LRG_192 t1	15, 16	Oncogen
STAT6	NM_003153.4		11, 12	Oncogen
TCF3	NM_0011136139		16-18	Oncogen
TET2	NM_001127208.2	LRG_626 t1	3, 9-11	Tumor Suppressor
TNFAIP3	NM_006290.3		Alle	Tumor Suppressor
TNFRSF14	NM_003820.3		Alle	Tumor Suppressor
TP53	NM_000546.5	LRG_321 t1	Alle	Tumor Suppressor
TRAF2	NM_021138.4		Alle	Tumor Suppressor
XPO1	NM_003400.3		15	Oncogen

LRG= Locus Reference Genomic

De volgende regio's zijn systematische drop out regio's: voor deze regio's wordt er systematisch onvoldoende diep gesequeneerd en kan er niet worden geanalyseerd:

gene	Exon	cDNA	protein
ARID1A	1	c.1_69	p.1-p.23
ARID1A	8	c.2483_2505	p.828-p.835
CREBBP	31	c.5831_5845	p.1944-p.1949
EZH2	7	c.654_728	p.218-p.243
FOXO1	1	c.293_333	p.98-p.111
KMT2D	10	c.1839_1884	p.613-p.628
KMT2D	10	c.2001_2105	p.667-p.702
KMT2D	10	c.2241_2535	p.747-p.845

De volgende regio's zijn regio's met een verminderde sensitiviteit: voor deze regio's kan de analyse uitgevoerd worden maar de detectielimiet van 5% kan niet gegarandeerd omdat de coverage <500x is.

gene	exon	cDNA	protein
ARID1A	1	c1_1137	p.1-p.379
	3	c.1704_1748	p.568-p.583
ATM	9	c.1066_1070	p.356-p.357
	59	c.8585_8671	p.2863-p.2891
	61	c.8787_8801	p.2930-p.2934
BCL2	2	c.160_256	p.54-p.86
BIRC3	9	c.1743_1813	p.581-p.605
CARD11	8	c.1111_1114	p.371
CD79A	5	c.568_597	p.190-p.199

CREBBP	9	c.1824_1840	p.609-p.614
	30	c.5163_5172	p.1721-p.1724
DDX3X	3	c.104_142	p.36-p.48
	10	c.865_1022	p.289-p.341
DNMT3A	22	c.2585_2597	p.862-p.866
EP300	12	c.2145_2202	p.715-p.734
EZH2	20	c.1996_2256	p.733-p.752
FGFR3	16	c.2157_2168	p.719-p.723
FOXO1	1	c.220_292	p.74-p.97
	1	c.334_411	p.112-p.137
IKZF1	8	c.1557_1560	p.519-520
KMT2D	42	c.13840_13846	p.4614-p.4616
	48	c.14737_14751	p.4913-p.4917
MAP2K1	2	c.273_291	p.91-p.97
NOTCH1	34	c.6686_6700	p.2229-p.2233
	34	c.6859_6865	p.2287-p.2289
	34	c.7630_7646	p.2544-p.2549
PIM1	6	c.867_918	p.289-p.306
PTEN	9	c.1027_1210	p.343-p.404
STAT6	12	c.1213_1214	p.405
TET2	3	c.232_268	p.78-p.90
TNFRSF14	1	c.25_69	p.9-p.23
	4	c.310_311	p.104
TP53	3	c.75_96	p.26-p.32
	4	c.202_235	p.68-p.79