

Gene Name	Gene Symbol	Exons	Coverage	# primer pairs
V-akt murine thymoma viral oncogene homolog 1	AKT1	Exon 4 (E17K)	selected SNPs	1
Anaplastic lymphoma receptor tyrosine kinase	ALK	Exon 25 (R1275Q)	selected SNPs	1
Additional sex combs like transcriptional regulator 1	ASXL1	Exon 12	all transcripts	6
ATM serine/threonine kinase	ATM	Exons 4, 7, 10, 22-23, 26-27, 33, 36-37, 42, 48, 52-53, 57-58 and 60	selected exons	17
Aurora Kinase A	AURKA	1, 3-11	selected exons	14
V-ras murine sarcoma viral oncogene homolog B1	BRAF	Exon 15 (V600E)	selected SNPs	1
Breast cancer type 1 susceptibility protein	BRCA1	1-24, UTR (5')	all transcripts	42
Breast cancer type 2 susceptibility protein	BRCA2	1-28	all transcripts	54
Caspase 8, apoptosis-related cysteine peptidase	CASP8	1-8	select transcripts††	8
Cyclin-dependent kinase 4	CDK4	Exon 2 (R24C)	selected SNPs	1
Serine/threonine-protein kinase Chk2	CHEK2	Exons 1, 3-8 and 12-13	select transcript††	7
Disco-interacting protein 2 homolog C	Dip2C	2-37	select transcript††	35
Epidermal growth factor receptor Precursor	EGFR	12, 18-21	selected exons	4
F-box and WD repeat domain containing 7 [a.k.a. CDC4]	FBXW7 [a.k.a. CDC4]	Exons 8 (R465C), 10 (R505C) and 11 (S582L)	selected SNPs	3
Fibroblast growth factor receptor 3	FGFR3	Exon 8 (G370C and S371C)	selected SNPs	2
Vascular endothelial growth factor receptor 1 Precursor (VEGFR-1)	FLT1	17-26	selected exons	10
Tyrosine-protein kinase receptor FLT4 (VEGFR-3)	FLT4	17-26	selected exons	10
Forkhead box O3	FOXO3	1-2	all CCDS transcripts††	4
Galectin-3	GAL3	1, 4**	selected exons	2
v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2	HER2 (ERBB2)	rs1810132, rs1136201(1655V), rs1058808(P1170A), rs2643194, rs2934971	selected SNPs	5
3-hydroxy-3-methylglutaryl-CoA reductase	HMGCR	rs12654264, intronic	selected SNP	1
GTPase HRas Precursor	HRAS <sup>†</sup>	1-4, 4a	selected exons	5
DNA-binding protein inhibitor ID-1	ID1	1	all transcripts††	3
kinase insert domain receptor (a type III receptor tyrosine kinase)	KDR [a.k.a. VEGFR2]	17-26	selected exons	10
V-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	KIT [a.k.a. c-KIT]	Exon 13 (K642E)	selected SNPs	1
Kruppel-like factor 6	KLF6	1-4	select transcript	4
GTPase KRas Precursor	KRAS	2-6	all transcripts††	5
mitogen activated protein kinase kinase 1	MAP2K1 [a.k.a. MEK1]	Exons 1-11	select transcript††	11
Mdm2 p53 binding protein homolog	MDM2	1-4, 4a, 5-11	all transcripts††	12
Mdm4 p53 binding protein homolog	MDM4	5'UTR, 1-10	select transcript	12
GTPase KRas Precursor ( <i>Mus musculus</i> )	mKRAS (mouse)	Exon 2	selected exon	1
Tumor suppressor p53 ( <i>Mus musculus</i> )	mP53 (mouse)	1-11	all transcripts††	7

Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase PTEN ( <i>Mus musculus</i> )	mPTEN (mouse)	1-9, UTR (5' and 3')	all transcripts	23
Solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 2	NHERF-2	Exon 3 (R171W)	selected SNPs	1
Neuroblastoma RAS viral (v-ras) oncogene homolog	NRAS	Exons 1 and 2	selected exons	2
Neurotrophic tyrosine kinase receptor type 2	NTRK2	4-21	select transcript††	17
Tumor suppressor p53	P53	All CCDS transcripts 1-12, UTR (5'&3')	exons + UTR	16
		All CCDS transcripts 1-12	exons only	12
		Transcript TP53-001 or TP53-002	exons + UTR	15
		Transcript TP53-001 or TP53-002	exons only	11
		Transcript TP53-004 or TP53-005	exons + UTR	16
		Transcript TP53-004 or TP53-005	exons only	10
Alpha-type platelet-derived growth factor receptor Precursor	PDGFR $\alpha$	Exon 18 (V824L, D842)	selected SNPs	1
PH domain and leucine rich repeat protein phosphatase	PHLPP2	Exon 18 (L1016S)	selected SNPs	1
Phosphatidylinositol 3-kinase catalytic alpha peptide	PIK3CA	1 (R38, R108), 8 (E418), 9 (E542, E545, Q546), 20 (S1008, T1025, M1043, H1047, G1049)	selected SNPs	5
Phosphatidylinositol 3-kinase regulatory subunit alpha	PIK3R1	1-15	select transcript††	14
Phosphoinositide-3-kinase, regulatory subunit 2 (beta)	PIK3R2	1-3, 6-14	all transcripts††	12
Plexin C1	PLXNC1 (a.k.a. CD232, VESPR)	rs869047	selected SNP	1
Polymerase (DNA directed), epsilon, catalytic subunit	PoIE	2-49	select transcript	39
Phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	PREX2	1-40	select transcript††	39
Protein kinase, AMP-activated, gamma 2 non-catalytic subunit	PRKAG2	Exon 15 (R531Q)	selected SNPs	1
Proteasome (prosome, macropain) subunit, beta type, 5	PSMB5	Exon 2 (G322A)	selected SNPs	1
Protein patched homolog 1	PTCH1	1-23, UTR (3')	select transcript	33
Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN	PTEN	1-9	all transcripts††	9
Protein tyrosine phosphatase, non-receptor type 11	PTPN11	1-15	select transcript	14
U4/U6.U5 tri-snRNP-associated protein 1	SART1	1-22	all transcripts††	11
Ski-like protein	SNON (SKIL)	1, 4	selected exons	4
Proto-oncogene tyrosine-protein kinase Src	SRC	1-12	all transcripts††	9
Serine/threonine-protein kinase 11	STK11 [a.k.a. LKB1]	1, 4-8	select transcript††	5
Ubiquitin-conjugating enzyme E2 C	UBCH10	1-5	all transcripts††	5
Vascular endothelial growth factor A	VEGFA [a.k.a. VPF]	Promoter (partial)	selected SNPs	4
Von Hippel-Lindau-binding protein 1	VBP1	1-6	all transcripts††	8

Von Hippel-Lindau disease tumor suppressor	VHL	1-3, UTR	select transcript	6
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Genes are human unless otherwise noted.

† Includes an isoform of exon 4.

\*\*Exon 1 incomplete.

††Coding only

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