

## OncoNext™ 50 geni

### Geni investigati

ABL1	EGFR	GNAS	KRAS	PTPN11
AKT1	ERBB2	GNAQ	MET	RB1
ALK	ERBB4	HNF1A	MLH1	RET
APC	EZH2	HRAS	MPL	SMAD4
ATM	FBXW7	IDH1	NOTCH1	SMARCB1
BRAF	FGFR1	JAK2	NPM1	SMO
CDH1	FGFR2	JAK3	NRAS	SRC
CDKN2A	FGFR3	IDH2	PDGFRA	STK11
CSF1R	FLT3	KDR	PIK3CA	TP53
CTNNB1	GNA11	KIT	PTEN	VHL

### Mutazioni hotspot ricercate nel test OncoNext™ 50 geni

Gene	Accession number	COSMIC_ID	CDS_mut_syntax	AA_mut_syntax
<b>ABL1</b>	X16416	12560	c.944C>T	p.T315I
<b>ABL1</b>	X16416	12573	c.763G>A	p.E255K
<b>ABL1</b>	X16416	12574	c.764A>T	p.E255V
<b>ABL1</b>	X16416	12575	c.951C>G	p.F317L
<b>ABL1</b>	X16416	12576	c.757T>C	p.Y253H
<b>ABL1</b>	X16416	12577	c.749G>A	p.G250E
<b>ABL1</b>	X16416	12578	c.1052T>C	p.M351T
<b>ABL1</b>	X16416	12602	c.827A>G	p.D276G
<b>ABL1</b>	X16416	12604	c.1187A>G	p.H396R
<b>ABL1</b>	X16416	12605	c.1075T>G	p.F359V
<b>ABL1</b>	X16416	12608	c.730A>G	p.M244V
<b>ABL1</b>	X16416	12609	c.756G>C	p.Q252H
<b>ABL1</b>	X16416	12610	c.758A>T	p.Y253F
<b>ABL1</b>	X16416	12611	c.1064A>G	p.E355G
<b>ABL1</b>	X16416	12631	c.742C>G	p.L248V
<b>ABL1</b>	X16416	12632	c.756G>T	p.Q252H
<b>ABL1</b>	X16416	131574	c.1159T>A	p.L387M
<b>ABL1</b>	X16416	49071	c.1150C>A	p.L384M
<b>ABL1</b>	X16416	49074	c.949T>C	p.F317L
<b>AKT1</b>	ENST00000349310	33765	c.49G>A	p.E17K
<b>AKT1</b>	ENST00000349310	36918	c.145G>A	p.E49K
<b>AKT1</b>	ENST00000349310	41225	c.47-1G>T	p.?
<b>AKT1</b>	ENST00000349310	48226	c.103T>C	p.F35L
<b>AKT1</b>	NM_005163	NOCOSMIC173	c.517G>C	p.G173R
<b>AKT1</b>	NM_005163	NOCOSMIC179	c.536A>T	p.K179M
<b>ALK</b>	NM_004304	28054	c.3520T>G	p.F1174V
<b>ALK</b>	NM_004304	28055	c.3522C>A	p.F1174L
<b>ALK</b>	NM_004304	28056	c.3824G>A	p.R1275Q
<b>ALK</b>	NM_004304	28057	c.3520T>C	p.F1174L
<b>ALK</b>	NM_004304	28059	c.3521T>G	p.F1174C
<b>ALK</b>	NM_004304	28061	c.3522C>G	p.F1174L
<b>ALK</b>	NM_004304	28491	c.3520T>A	p.F1174I
<b>ALK</b>	NM_004304	99137	c.3586C>A	p.L1196M
<b>APC</b>	NM_000038	13113	c.3927_3931delAAAGA	p.E1309fs*4
<b>APC</b>	NM_000038	13121	c.4099C>T	p.Q1367*
<b>APC</b>	NM_000038	13123	c.4729G>T	p.E1577*

APC	NM_000038	13125	c.3340C>T	p.R1114*
APC	NM_000038	13127	c.4348C>T	p.R1450*
APC	NM_000038	13727	c.3922A>T	p.K1308*
APC	NM_000038	13728	c.3907C>T	p.Q1303*
APC	NM_000038	13864	c.4393_4394delAG	p.S1465fs*3
APC	NM_000038	13872	c.3286C>T	p.Q1096*
APC	NM_000038	13879	c.4639G>T	p.E1547*
APC	NM_000038	181848	c.4127_4128delAT	p.Y1376fs*9
APC	NM_000038	18561	c.4666_4667insA	p.T1556fs*3
APC	NM_000038	18576	c.4666delA	p.T1556fs*9
APC	NM_000038	18698	c.4126_4127delTA	p.Y1376fs*9
APC	NM_000038	18699	c.4461_4462insT	p.L1488fs*26
APC	NM_000038	18700	c.3956delC	p.P1319fs*2
APC	NM_000038	18701	c.3926_3930delAAAAG	p.E1309fs*4
APC	NM_000038	18702	c.3964G>T	p.E1322*
APC	NM_000038	18704	c.4312delA	p.T1438fs*35
APC	NM_000038	18719	c.3923_3924insA	p.E1309fs*6
APC	NM_000038	18729	c.4405C>T	p.Q1469*
APC	NM_000038	18734	c.4662_4663insA	p.T1556fs*3
APC	NM_000038	18735	c.3916G>A	p.E1306K
APC	NM_000038	18737	c.4120G>A	p.E1374K
APC	NM_000038	18738	c.4495G>A	p.G1499R
APC	NM_000038	18755	c.3928_3929delAA	p.K1310fs*4
APC	NM_000038	18758	c.4108A>T	p.K1370*
APC	NM_000038	18759	c.4033G>T	p.E1345*
APC	NM_000038	18760	c.3916G>T	p.E1306*
APC	NM_000038	18763	c.4065_4066delTT	p.S1356fs*18
APC	NM_000038	18764	c.3921_3925delAAAAG	p.E1309fs*4
APC	NM_000038	18765	c.4060_4064delTTTTTC	p.S1355fs*18
APC	NM_000038	18767	c.3920_3921delTA	p.I1307fs*7
APC	NM_000038	18775	c.3925G>T	p.E1309*
APC	NM_000038	18777	c.3944C>A	p.S1315*
APC	NM_000038	18779	c.4067C>G	p.S1356*
APC	NM_000038	18783	c.4316delC	p.P1439fs*34
APC	NM_000038	18785	c.4469delA	p.H1490fs*17
APC	NM_000038	18786	c.4476delC	p.T1493fs*14
APC	NM_000038	18796	c.3935delG	p.G1312fs*9
APC	NM_000038	18804	c.3943_3944insA	p.S1315fs*3
APC	NM_000038	18809	c.3920delT	p.I1307fs*14
APC	NM_000038	18817	c.3934G>T	p.G1312*
APC	NM_000038	18823	c.4328delC	p.P1443fs*30
APC	NM_000038	18825	c.4364delA	p.N1455fs*18
APC	NM_000038	18834	c.4135G>T	p.E1379*
APC	NM_000038	18836	c.4285C>T	p.Q1429*
APC	NM_000038	18838	c.4391_4394delAGAG	p.E1464fs*8
APC	NM_000038	18852	c.2626C>T	p.R876*
APC	NM_000038	18855	c.3898_3908del11	p.T1301fs*10
APC	NM_000038	18856	c.3930_3933delGATT	p.I1311fs*9
APC	NM_000038	18861	c.4128T>A	p.Y1376*
APC	NM_000038	18862	c.4132C>T	p.Q1378*
APC	NM_000038	18866	c.4668_4669insA	p.I1557fs*2
APC	NM_000038	18869	c.4308delT	p.S1436fs*37
APC	NM_000038	18873	c.4385_4386delAG	p.S1465fs*3
APC	NM_000038	18883	c.4390G>T	p.E1464*
APC	NM_000038	18885	c.4495G>T	p.G1499*
APC	NM_000038	18910	c.4126_4127insT	p.Y1376fs*10

APC	NM_000038	18927	c.4329T>A	p.P1443P
APC	NM_000038	18931	c.4392_4393delGA	p.S1465fs*3
APC	NM_000038	18935	c.3870_3871insCAGACGA	p.Q1294fs*9
APC	NM_000038	18937	c.3904_3905insT	p.Q1303fs*12
APC	NM_000038	18938	c.4040delC	p.R1348fs*67
APC	NM_000038	18942	c.3928A>T	p.K1310*
APC	NM_000038	18949	c.3942delG	p.R1314fs*7
APC	NM_000038	18950	c.3920_3924delTAAAA	p.I1307fs*6
APC	NM_000038	18960	c.3880C>T	p.Q1294*
APC	NM_000038	18961	c.3883G>T	p.E1295*
APC	NM_000038	18965	c.4477_4478insA	p.T1493fs*21
APC	NM_000038	18978	c.4667_4668insC	p.I1557fs*2
APC	NM_000038	18986	c.4066_4079del14	p.G1357fs*13
APC	NM_000038	18990	c.4122_4123delAC	p.H1375fs*10
APC	NM_000038	18997	c.4372delC	p.P1458fs*15
APC	NM_000038	18999	c.4461delT	p.L1488fs*19
APC	NM_000038	19005	c.3893_3894insTGCTAATA	p.T1301fs*7
APC	NM_000038	19020	c.4665_4666insA	p.T1556fs*3
APC	NM_000038	19021	c.4330C>T	p.Q1444*
APC	NM_000038	19033	c.4110_4111delAA	p.P1372fs*2
APC	NM_000038	19047	c.4050delA	p.A1351fs*64
APC	NM_000038	19048	c.4057G>T	p.E1353*
APC	NM_000038	19049	c.4326T>A	p.P1442P
APC	NM_000038	19052	c.4290delC	p.M1431fs*42
APC	NM_000038	19053	c.4314_4315delAC	p.P1439fs*15
APC	NM_000038	19054	c.4473delT	p.F1491fs*16
APC	NM_000038	19055	c.4537G>T	p.E1513*
APC	NM_000038	19062	c.2606delA	p.N869fs*47
APC	NM_000038	19072	c.3871C>T	p.Q1291*
APC	NM_000038	19084	c.4037C>A	p.S1346*
APC	NM_000038	19085	c.4120G>T	p.E1374*
APC	NM_000038	19093	c.4304delG	p.R1435fs*38
APC	NM_000038	19094	c.4332_4335delAACAA	p.T1445fs*27
APC	NM_000038	19095	c.4351G>T	p.E1451*
APC	NM_000038	19098	c.4463delT	p.L1488fs*19
APC	NM_000038	19099	c.3949G>C	p.E1317Q
APC	NM_000038	19105	c.4466delT	p.L1489fs*18
APC	NM_000038	19119	c.4364_4365insA	p.N1455fs*2
APC	NM_000038	19127	c.4394_4395delGT	p.S1465fs*3
APC	NM_000038	19129	c.4339C>T	p.Q1447*
APC	NM_000038	19141	c.4393delA	p.S1465fs*8
APC	NM_000038	19145	c.3925_3929delGAAAA	p.E1309fs*4
APC	NM_000038	19148	c.4358delC	p.P1453fs*20
APC	NM_000038	19201	c.4384_4385delAA	p.K1462fs*6
APC	NM_000038	19203	c.3919_3920insA	p.I1307fs*8
APC	NM_000038	19218	c.3902C>G	p.T1301S
APC	NM_000038	19225	c.4468_4469delCA	p.H1490fs*23
APC	NM_000038	19230	c.2639T>C	p.I880T
APC	NM_000038	19236	c.4333delA	p.T1445fs*28
APC	NM_000038	19241	c.4067C>A	p.S1356*
APC	NM_000038	19253	c.3949G>T	p.E1317*
APC	NM_000038	19263	c.3922_3926delAAAGA	p.E1309fs*4
APC	NM_000038	19268	c.4132_4133delCA	p.Q1378fs*7
APC	NM_000038	19299	c.4473_4474insT	p.A1492fs*22
APC	NM_000038	19329	c.3359G>A	p.G1120E
APC	NM_000038	19330	c.2656C>T	p.Q886*

APC	NM_000038	19332	c.4391_4392delAG	p.S1465fs*3
APC	NM_000038	19340	c.4474delG	p.A1492fs*15
APC	NM_000038	19349	c.4479_4480delGG	p.E1494fs*19
APC	NM_000038	19478	c.4691T>G	p.L1564*
APC	NM_000038	19582	c.3944C>G	p.S1315*
APC	NM_000038	19594	c.4318delC	p.P1440fs*33
APC	NM_000038	19615	c.4462_4463insTA	p.L1489fs*19
APC	NM_000038	19616	c.4463T>G	p.L1488*
APC	NM_000038	19617	c.4464delA	p.L1488fs*19
APC	NM_000038	19626	c.4480delG	p.E1494fs*13
APC	NM_000038	19629	c.4489delC	p.P1497fs*10
APC	NM_000038	19652	c.4063T>C	p.S1355P
APC	NM_000038	19664	c.3919delA	p.I1307fs*1
APC	NM_000038	19667	c.4465_4466insAC	p.L1489fs*19
APC	NM_000038	19674	c.4483_4484insA	p.S1495fs*19
APC	NM_000038	19688	c.4386_4387delGA	p.S1465fs*3
APC	NM_000038	19694	c.4386_4389delGAGA	p.E1464fs*8
APC	NM_000038	19695	c.4660_4661insA	p.T1556fs*3
APC	NM_000038	19696	c.4117delC	p.P1373fs*42
APC	NM_000038	19701	c.4061_4062delTT	p.S1355fs*19
APC	NM_000038	19705	c.4303A>T	p.R1435*
APC	NM_000038	19714	c.4479delG	p.E1494fs*13
APC	NM_000038	19718	c.4660_4661insG	p.E1554fs*5
APC	NM_000038	210755	c.4343_4343delC	p.K1449fs*24
APC	NM_000038	23587	c.4097C>T	p.A1366V
APC	NM_000038	23598	c.4483delA	p.S1495fs*12
APC	NM_000038	24941	c.4477delA	p.T1493fs*14
APC	NM_000038	24946	c.4291delA	p.M1431fs*42
APC	NM_000038	24948	c.4394delG	p.S1465fs*8
APC	NM_000038	25815	c.4295_4296CA>AC	p.P1432H
APC	NM_000038	25826	c.4037C>G	p.S1346*
APC	NM_000038	25827	c.4048A>T	p.K1350*
APC	NM_000038	27993	c.4360A>G	p.K1454E
APC	NM_000038	29330	c.3897delT	p.N1300fs*5
APC	NM_000038	29331	c.4063delT	p.S1355fs*60
APC	NM_000038	30779	c.4381G>T	p.E1461*
APC	NM_000038	32201	c.3956delC	p.P1319fs*2
APC	NM_000038	32442	c.4473delT	p.F1491fs*16
APC	NM_000038	41607	c.4090_4091insA	p.S1364fs*11
APC	NM_000038	41608	c.4063_4064insT	p.S1355fs*20
APC	NM_000038	41613	c.3925_3926insA	p.I1311fs*4
APC	NM_000038	41614	c.4373_4374insC	p.T1459fs*3
APC	NM_000038	41616	c.4654G>T	p.E1552*
APC	NM_000038	41618	c.4463_4466delTATT	p.L1488fs*18
APC	NM_000038	41619	c.4118_4118delC	p.P1373fs*42
APC	NM_000038	41621	c.4665_4666delAA	p.K1555fs*3
APC	NM_000038	41622	c.4388_4391delGAGA	p.E1464fs*8
APC	NM_000038	41623	c.4081_4082delCC	p.P1361fs*13
APC	NM_000038	99778	c.4484G>T	p.S1495I
ATM	NM_000051	12791	c.7996A>G	p.T2666A
ATM	NM_000051	12792	c.5380C>T	p.L1794L
ATM	NM_000051	12793	c.2542G>C	p.E848Q
ATM	NM_000051	12951	c.7325A>C	p.Q2442P
ATM	NM_000051	20404	c.7328G>A	p.R2443Q
ATM	NM_000051	21323	c.1009C>T	p.R337C
ATM	NM_000051	21624	c.9139C>T	p.R3047*

ATM	NM_000051	21626	c.9023G>A	p.R3008H
ATM	NM_000051	21636	c.8084G>C	p.G2695A
ATM	NM_000051	21642	c.9022C>T	p.R3008C
ATM	NM_000051	21679	c.8663T>C	p.I2888T
ATM	NM_000051	21825	c.1229T>C	p.V410A
ATM	NM_000051	21826	c.2572T>C	p.F858L
ATM	NM_000051	21918	c.5224G>C	p.A1742P
ATM	NM_000051	21919	c.5041A>G	p.I1681V
ATM	NM_000051	21920	c.5044G>T	p.D1682Y
ATM	NM_000051	21922	c.5821G>C	p.V1941L
ATM	NM_000051	21924	c.1058_1059delGT	p.C353fs*5
ATM	NM_000051	21930	c.8839A>T	p.T2947S
ATM	NM_000051	21931	c.1009C>A	p.R337S
ATM	NM_000051	22481	c.8174A>T	p.D2725V
ATM	NM_000051	22485	c.8668C>G	p.L2890V
ATM	NM_000051	22499	c.1810C>T	p.P604S
ATM	NM_000051	22507	c.3925G>A	p.A1309T
BRAF	NM_004333	1111	c.1390G>C	p.G464R
BRAF	NM_004333	1112	c.1396G>C	p.G466R
BRAF	NM_004333	1113	c.1405_1407GGA>AGC	p.G469S
BRAF	NM_004333	1115	c.1746A>G	p.I582M
BRAF	NM_004333	1116	c.1749T>C	p.F583F
BRAF	NM_004333	1117	c.1752T>C	p.L584L
BRAF	NM_004333	1118	c.1758A>G	p.E586E
BRAF	NM_004333	1119	c.1776A>G	p.I592M
BRAF	NM_004333	1120	c.1774A>G	p.I592V
BRAF	NM_004333	1121	c.1782T>A	p.D594E
BRAF	NM_004333	1123	c.1784T>C	p.F595S
BRAF	NM_004333	1124	c.1791A>G	p.L597L
BRAF	NM_004333	1125	c.1790T>A	p.L597Q
BRAF	NM_004333	1126	c.1789_1790CT>TC	p.L597S
BRAF	NM_004333	1127	c.1797_1799AGT>GAG	p.V600R
BRAF	NM_004333	1128	c.1797_1797A>TACTACG	p.T599_V600insTT
BRAF	NM_004333	1130	c.1798G>A	p.V600M
BRAF	NM_004333	1132	c.1803A>C	p.K601N
BRAF	NM_004333	1133	c.1799_1801delTGA	p.V600_K601>E
BRAF	NM_004333	1134	c.1810T>G	p.W604G
BRAF	NM_004333	1135	c.1813_1814AG>TT	p.S605F
BRAF	NM_004333	1136	c.1814G>A	p.S605N
BRAF	NM_004333	1137	c.1817G>A	p.G606E
BRAF	NM_004333	1138	c.1823A>G	p.H608R
BRAF	NM_004333	144982	c.1797_1798insACA	p.T599_V600insT
BRAF	NM_004333	18443	c.1799T>C	p.V600A
BRAF	NM_004333	21492	c.1357C>A	p.P453T
BRAF	NM_004333	21542	c.1813A>G	p.S605G
BRAF	NM_004333	21549	c.1793C>T	p.A598V
BRAF	NM_004333	21609	c.1761C>A	p.D587E
BRAF	NM_004333	21612	c.1783T>C	p.F595L
BRAF	NM_004333	219798	c.1798G>C	p.V600L
BRAF	NM_004333	24642	c.1411G>T	p.V471F
BRAF	NM_004333	249889	c.1798_1799GT>CA	p.V600Q
BRAF	NM_004333	26506	c.1787G>A	p.G596D
BRAF	NM_004333	26625	c.1794_1795insGTT	p.A598_T599insV
BRAF	NM_004333	27639	c.1780G>A	p.D594N
BRAF	NM_004333	27912	c.1405_1407GGA>AGT	p.G469S
BRAF	NM_004333	28010	c.1750C>T	p.L584F

<b>BRAF</b>	NM_004333	30594	c.1801_1803delAAA	<b>p.K601del</b>
<b>BRAF</b>	NM_004333	30730	c.1796_1797insTAC	<b>p.T599_V600insT</b>
<b>BRAF</b>	NM_004333	33729	c.1807C>T	<b>p.R603*</b>
<b>BRAF</b>	NM_004333	33808	c.1798G>T	<b>p.V600L</b>
<b>BRAF</b>	NM_004333	447	c.1385G>T	<b>p.R462I</b>
<b>BRAF</b>	NM_004333	449	c.1391G>A	<b>p.G464E</b>
<b>BRAF</b>	NM_004333	450	c.1391G>T	<b>p.G464V</b>
<b>BRAF</b>	NM_004333	451	c.1397G>T	<b>p.G466V</b>
<b>BRAF</b>	NM_004333	452	c.1397G>C	<b>p.G466A</b>
<b>BRAF</b>	NM_004333	453	c.1397G>A	<b>p.G466E</b>
<b>BRAF</b>	NM_004333	455	c.1405G>C	<b>p.G469R</b>
<b>BRAF</b>	NM_004333	457	c.1405G>A	<b>p.G469R</b>
<b>BRAF</b>	NM_004333	458	c.1405_1406GG>TC	<b>p.G469S</b>
<b>BRAF</b>	NM_004333	459	c.1406G>T	<b>p.G469V</b>
<b>BRAF</b>	NM_004333	460	c.1406G>C	<b>p.G469A</b>
<b>BRAF</b>	NM_004333	461	c.1406G>A	<b>p.G469E</b>
<b>BRAF</b>	NM_004333	462	c.1742A>G	<b>p.N581S</b>
<b>BRAF</b>	NM_004333	463	c.1756G>A	<b>p.E586K</b>
<b>BRAF</b>	NM_004333	464	c.1760A>C	<b>p.D587A</b>
<b>BRAF</b>	NM_004333	465	c.1761C>G	<b>p.D587E</b>
<b>BRAF</b>	NM_004333	466	c.1781A>T	<b>p.D594V</b>
<b>BRAF</b>	NM_004333	467	c.1781A>G	<b>p.D594G</b>
<b>BRAF</b>	NM_004333	468	c.1785T>G	<b>p.F595L</b>
<b>BRAF</b>	NM_004333	469	c.1786G>C	<b>p.G596R</b>
<b>BRAF</b>	NM_004333	470	c.1789C>G	<b>p.L597V</b>
<b>BRAF</b>	NM_004333	471	c.1790T>G	<b>p.L597R</b>
<b>BRAF</b>	NM_004333	472	c.1796C>T	<b>p.T599I</b>
<b>BRAF</b>	NM_004333	473	c.1798_1799GT>AA	<b>p.V600K</b>
<b>BRAF</b>	NM_004333	474	c.1798_1799GT>AG	<b>p.V600R</b>
<b>BRAF</b>	NM_004333	475	c.1799_1800TG>AA	<b>p.V600E</b>
<b>BRAF</b>	NM_004333	476	c.1799T>A	<b>p.V600E</b>
<b>BRAF</b>	NM_004333	477	c.1799_1800TG>AT	<b>p.V600D</b>
<b>BRAF</b>	NM_004333	478	c.1801A>G	<b>p.K601E</b>
<b>BRAF</b>	NM_004333	53198	c.1785T>A	<b>p.F595L</b>
<b>BRAF</b>	NM_004333	6137	c.1799T>G	<b>p.V600G</b>
<b>BRAF</b>	NM_004333	6262	c.1330C>T	<b>p.R444W</b>
<b>BRAF</b>	NM_004333	6265	c.1803A>T	<b>p.K601N</b>
<b>BRAF</b>	NM_004333	6267	c.1808_1810delGAT	<b>p.W604del</b>
<b>CDH1</b>	NM_004360.2	19747	c.1057G>T	<b>p.E353*</b>
<b>CDH1</b>	NM_004360.2	19748	c.1108G>C	<b>p.D370H</b>
<b>CDH1</b>	NM_004360.2	19750	c.1204G>A	<b>p.D402N</b>
<b>CDH1</b>	NM_004360.2	19751	c.1027delC	<b>p.L343fs*13</b>
<b>CDH1</b>	NM_004360.2	19753	c.1009-1G>A	<b>p.?</b>
<b>CDH1</b>	NM_004360.2	19761	c.1196_1199delCTGA	<b>p.T399fs*17</b>
<b>CDH1</b>	NM_004360.2	28934	c.240_241insGGTG	<b>p.V82fs*13</b>
<b>CDKN2A</b>	NM_000077	12468	c.236C>T	<b>p.T79I</b>
<b>CDKN2A</b>	NM_000077	12469	c.244G>A	<b>p.V82M</b>
<b>CDKN2A</b>	NM_000077	12473	c.172C>T	<b>p.R58*</b>
<b>CDKN2A</b>	NM_000077	12475	c.238C>T	<b>p.R80*</b>
<b>CDKN2A</b>	NM_000077	12476	c.341C>T	<b>p.P114L</b>
<b>CDKN2A</b>	NM_000077	12479	c.358G>T	<b>p.E120*</b>
<b>CDKN2A</b>	NM_000077	12480	c.239G>A	<b>p.R80Q</b>
<b>CDKN2A</b>	NM_000077	12481	c.329G>A	<b>p.W110*</b>
<b>CDKN2A</b>	NM_000077	12484	c.322G>A	<b>p.D108N</b>
<b>CDKN2A</b>	NM_000077	12490	c.224C>T	<b>p.P75L</b>
<b>CDKN2A</b>	NM_000077	12491	c.318G>A	<b>p.V106V</b>

CDKN2A	NM_000077	12493	c.303G>A	p.G101G
CDKN2A	NM_000077	12494	c.248A>C	p.H83P
CDKN2A	NM_000077	12501	c.365G>A	p.G122D
CDKN2A	NM_000077	12502	c.305C>A	p.A102E
CDKN2A	NM_000077	12503	c.334C>G	p.R112G
CDKN2A	NM_000077	12504	c.247C>T	p.H83Y
CDKN2A	NM_000077	12509	c.220G>T	p.D74Y
CDKN2A	NM_000077	12511	c.242C>A	p.P81H
CDKN2A	NM_000077	12513	c.298G>T	p.A100S
CDKN2A	NM_000077	12518	c.233_234delTC	p.L78fs*41
CDKN2A	NM_000077	12537	c.151-1G>T	p.?
CDKN2A	NM_000077	12539	c.151-2A>C	p.?
CDKN2A	NM_000077	12544	c.243_244insT	p.P81fs*38
CDKN2A	NM_000077	12547	c.330G>A	p.W110*
CDKN2A	NM_000077	12731	c.171_172CC>TT	p.R58*
CDKN2A	NM_000077	12739	c.222C>T	p.D74D
CDKN2A	NM_000077	12741	c.392G>A	p.R131H
CDKN2A	NM_000077	12746	c.199G>A	p.G67S
CDKN2A	NM_000077	12748	c.382C>T	p.R128W
CDKN2A	NM_000077	12749	c.204G>A	p.A68A
CDKN2A	NM_000077	12758	c.192G>A	p.L64L
CDKN2A	NM_000077	13221	c.387C>G	p.Y129*
CDKN2A	NM_000077	13222	c.151-2A>T	p.?
CDKN2A	NM_000077	13223	c.151-1G>A	p.?
CDKN2A	NM_000077	13224	c.242C>T	p.P81L
CDKN2A	NM_000077	13227	c.343G>T	p.V115L
CDKN2A	NM_000077	13252	c.170C>T	p.A57V
CDKN2A	NM_000077	13254	c.313delG	p.D105fs*41
CDKN2A	NM_000077	13274	c.251A>G	p.D84G
CDKN2A	NM_000077	13276	c.152T>C	p.V51A
CDKN2A	NM_000077	13280	c.200G>T	p.G67V
CDKN2A	NM_000077	13281	c.205G>T	p.E69*
CDKN2A	NM_000077	13289	c.231_232delTC	p.L78fs*41
CDKN2A	NM_000077	13294	c.376G>T	p.V126F
CDKN2A	NM_000077	13295	c.251A>T	p.D84V
CDKN2A	NM_000077	13296	c.358G>A	p.E120K
CDKN2A	NM_000077	13297	c.249_250insTT	p.D84fs*63
CDKN2A	NM_000077	13298	c.394G>C	p.A132P
CDKN2A	NM_000077	13299	c.250G>T	p.D84Y
CDKN2A	NM_000077	13300	c.355G>T	p.E119*
CDKN2A	NM_000077	13436	c.155T>A	p.M52K
CDKN2A	NM_000077	13440	c.203C>T	p.A68V
CDKN2A	NM_000077	13463	c.369T>A	p.H123Q
CDKN2A	NM_000077	13474	c.220G>A	p.D74N
CDKN2A	NM_000077	13486	c.181G>T	p.E61*
CDKN2A	NM_000077	13488	c.250G>A	p.D84N
CDKN2A	NM_000077	13489	c.322G>T	p.D108Y
CDKN2A	NM_000077	13491	c.232_233delCT	p.L78fs*41
CDKN2A	NM_000077	13493	c.174_189del16	p.V59fs*82
CDKN2A	NM_000077	13494	c.160_173del14	p.M54fs*61
CDKN2A	NM_000077	13496	c.151G>A	p.V51I
CDKN2A	NM_000077	13504	c.188T>C	p.L63P
CDKN2A	NM_000077	13505	c.316G>A	p.V106M
CDKN2A	NM_000077	13520	c.322G>C	p.D108H
CDKN2A	NM_000077	13524	c.237_238CC>TT	p.R80*
CDKN2A	NM_000077	13531	c.151-1G>A	p.?

<b>CDKN2A</b>	NM_000077	13534	c.373G>A	<b>p.D125N</b>
<b>CDKN2A</b>	NM_000077	13540	c.355G>C	<b>p.E119Q</b>
<b>CDKN2A</b>	NM_000077	13546	c.221A>T	<b>p.D74V</b>
<b>CDKN2A</b>	NM_000077	13548	c.364G>A	<b>p.G122S</b>
<b>CDKN2A</b>	NM_000077	13567	c.216C>A	<b>p.C72*</b>
<b>CDKN2A</b>	NM_000077	13568	c.225delC	<b>p.A76fs*70</b>
<b>CDKN2A</b>	NM_000077	13604	c.202G>A	<b>p.A68T</b>
<b>CDKN2A</b>	NM_000077	13607	c.310delC	<b>p.L104fs*42</b>
<b>CDKN2A</b>	NM_000077	13608	c.371G>A	<b>p.R124H</b>
<b>CDKN2A</b>	NM_000077	13613	c.250G>C	<b>p.D84H</b>
<b>CDKN2A</b>	NM_000077	13619	c.363delG	<b>p.G122fs*24</b>
<b>CDKN2A</b>	NM_000077	13633	c.386A>G	<b>p.Y129C</b>
<b>CDKN2A</b>	NM_000077	13642	c.228_229insT	<b>p.T77fs*43</b>
<b>CDKN2A</b>	NM_000077	13645	c.366C>A	<b>p.G122G</b>
<b>CDKN2A</b>	NM_000077	13675	c.305C>T	<b>p.A102V</b>
<b>CDKN2A</b>	NM_000077	13713	c.340C>T	<b>p.P114S</b>
<b>CDKN2A</b>	NM_000077	13717	c.206A>T	<b>p.E69V</b>
<b>CDKN2A</b>	NM_000077	13754	c.157_174del18	<b>p.M53_R58del</b>
<b>CDKN2A</b>	NM_000077	13766	c.227C>T	<b>p.A76V</b>
<b>CDKN2A</b>	NM_000077	13779	c.160_161insA	<b>p.M54fs*66</b>
<b>CDKN2A</b>	NM_000077	13782	c.187C>G	<b>p.L63V</b>
<b>CDKN2A</b>	NM_000077	13803	c.230_231delCT	<b>p.L78fs*41</b>
<b>CDKN2A</b>	NM_000077	13807	c.346G>T	<b>p.D116Y</b>
<b>CDKN2A</b>	NM_000077	13815	c.209C>T	<b>p.P70L</b>
<b>CDKN2A</b>	NM_000077	13827	c.378C>T	<b>p.V126V</b>
<b>CDKN2A</b>	NM_000077	13830	c.341C>A	<b>p.P114H</b>
<b>CDKN2A</b>	NM_000077	13965	c.156G>C	<b>p.M52I</b>
<b>CDKN2A</b>	NM_000077	13972	c.194T>C	<b>p.L65P</b>
<b>CDKN2A</b>	NM_000077	14253	c.197A>G	<b>p.H66R</b>
<b>CDKN2A</b>	NM_000077	14254	c.151-4G>C	<b>p.?</b>
<b>CDKN2A</b>	NM_000077	22559	c.169G>C	<b>p.A57P</b>
<b>CDKN2A</b>	NM_000077	22560	c.179C>T	<b>p.A60V</b>
<b>CDKN2A</b>	NM_000077	22561	c.213C>A	<b>p.N71K</b>
<b>CDKN2A</b>	NM_000077	28562	c.387C>A	<b>p.Y129*</b>
<b>CDKN2A</b>	NM_000077	28675	c.389T>C	<b>p.L130P</b>
<b>CDKN2A</b>	NM_000077	33797	c.370delC	<b>p.R124fs*22</b>
<b>CDKN2A</b>	NM_000077	33799	c.389T>G	<b>p.L130R</b>
<b>CDKN2A</b>	NM_000077	33800	c.390G>A	<b>p.L130L</b>
<b>CDKN2A</b>	NM_000077	33802	c.396G>A	<b>p.A132A</b>
<b>CDKN2A_</b>				
<b>ENST00000</b>	ENST00000361570	99935	c.404C>T	<b>p.P135L</b>
<b>361570</b>	_v62			
<b>CDKN2A_</b>				
<b>ENST00000</b>	ENST00000446177	99191	c.238C>T	<b>p.R80*</b>
<b>446177</b>				
<b>CSF1R</b>	NM_005211	946	c.902T>A	<b>p.L301*</b>
<b>CSF1R</b>	NM_005211	947	c.2906A>G	<b>p.Y969C</b>
<b>CSF1R</b>	NM_005211	948	c.2906A>T	<b>p.Y969F</b>
<b>CSF1R</b>	NM_005211	949	c.2907T>G	<b>p.Y969*</b>
<b>CSF1R</b>	NM_005211	951	c.2905T>A	<b>p.Y969N</b>
<b>CSF1R</b>	NM_005211	952	c.2905T>C	<b>p.Y969H</b>
<b>CSF1R</b>	NM_005211	954	c.902T>C	<b>p.L301S</b>
<b>CSF1R</b>	NM_005211	955	c.2907T>A	<b>p.Y969*</b>
<b>CTNNB1</b>	NM_001904	13168	c.104T>C	<b>p.I35T</b>
<b>CTNNB1</b>	NM_001904	13175	c.138G>A	<b>p.L46L</b>
<b>CTNNB1</b>	NM_001904	14256	c.73_96del24	<b>p.WQQQSYLD25*</b>



CTNNB1	NM_001904	17661	c.130C>G	p.P44A
CTNNB1	NM_001904	17941	c.67A>G	p.S23G
CTNNB1	NM_001904	22566	c.64G>A	p.V22I
CTNNB1	NM_001904	24746	c.112_114GGT>CCC	p.G38P
CTNNB1	NM_001904	27378	c.107A>G	p.H36R
CTNNB1	NM_001904	29289	c.125_126delCA	p.T42fs*7
CTNNB1	NM_001904	34125	c.90C>G	p.Y30*
CTNNB1	NM_001904	49161	c.43G>A	p.E15K
CTNNB1	NM_001904	5661	c.94G>T	p.D32Y
CTNNB1	NM_001904	5662	c.110C>T	p.S37F
CTNNB1	NM_001904	5663	c.133T>C	p.S45P
CTNNB1	NM_001904	5664	c.121A>G	p.T41A
CTNNB1	NM_001904	5666	c.110C>A	p.S37Y
CTNNB1	NM_001904	5667	c.134C>T	p.S45F
CTNNB1	NM_001904	5668	c.94G>C	p.D32H
CTNNB1	NM_001904	5669	c.98C>T	p.S33F
CTNNB1	NM_001904	5670	c.101G>T	p.G34V
CTNNB1	NM_001904	5671	c.101G>A	p.G34E
CTNNB1	NM_001904	5672	c.94G>A	p.D32N
CTNNB1	NM_001904	5673	c.98C>A	p.S33Y
CTNNB1	NM_001904	5674	c.104T>G	p.I35S
CTNNB1	NM_001904	5675	c.109T>G	p.S37A
CTNNB1	NM_001904	5676	c.122C>T	p.T41I
CTNNB1	NM_001904	5677	c.98C>G	p.S33C
CTNNB1	NM_001904	5678	c.107A>C	p.H36P
CTNNB1	NM_001904	5679	c.110C>G	p.S37C
CTNNB1	NM_001904	5681	c.95A>G	p.D32G
CTNNB1	NM_001904	5682	c.97T>C	p.S33P
CTNNB1	NM_001904	5683	c.97T>G	p.S33A
CTNNB1	NM_001904	5684	c.100G>C	p.G34R
CTNNB1	NM_001904	5685	c.133T>G	p.S45A
CTNNB1	NM_001904	5686	c.100G>A	p.G34R
CTNNB1	NM_001904	5687	c.109T>C	p.S37P
CTNNB1	NM_001904	5688	c.121A>C	p.T41P
CTNNB1	NM_001904	5689	c.134C>G	p.S45C
CTNNB1	NM_001904	5690	c.95A>C	p.D32A
CTNNB1	NM_001904	5691	c.95A>T	p.D32V
CTNNB1	NM_001904	5692	c.134C>A	p.S45Y
CTNNB1	NM_001904	5694	c.86C>T	p.S29F
CTNNB1	NM_001904	5696	c.125C>T	p.T42I
CTNNB1	NM_001904	5699	c.128C>T	p.A43V
CTNNB1	NM_001904	5701	c.122C>G	p.T41S
CTNNB1	NM_001904	5702	c.59C>T	p.A20V
CTNNB1	NM_001904	5703	c.106C>T	p.H36Y
CTNNB1	NM_001904	5704	c.130C>T	p.P44S
CTNNB1	NM_001904	5706	c.65T>C	p.V22A
CTNNB1	NM_001904	5708	c.119C>T	p.T40I
CTNNB1	NM_001904	5713	c.113G>A	p.G38D
CTNNB1	NM_001904	5714	c.67A>C	p.S23R
CTNNB1	NM_001904	5716	c.121A>T	p.T41S
CTNNB1	NM_001904	5717	c.123C>T	p.T41T
CTNNB1	NM_001904	5721	c.91C>T	p.L31L
CTNNB1	NM_001904	5730	c.122C>A	p.T41N
CTNNB1	NM_001904	5732	c.125C>G	p.T42R
CTNNB1	NM_001904	5738	c.61G>A	p.A21T
CTNNB1	NM_001904	5744	c.127G>C	p.A43P

<b>CTNNB1</b>	NM_001904	5747	c.37G>A	<b>p.A13T</b>
<b>CTNNB1</b>	NM_001904	5749	c.74G>T	<b>p.W25L</b>
<b>CTNNB1</b>	NM_001904	5753	c.116C>G	<b>p.A39G</b>
<b>CTNNB1</b>	NM_001904	5758	c.127G>A	<b>p.A43T</b>
<b>CTNNB1</b>	NM_001904	5761	c.131C>T	<b>p.P44L</b>
<b>CTNNB1</b>	NM_001904	5762	c.115G>A	<b>p.A39T</b>
<b>CTNNB1</b>	NM_001904	6050	c.64_114del51	<b>p.V22_G38del</b>
<b>CTNNB1</b>	NM_001904	6052	c.64_99del36	<b>p.V22_S33del</b>
<b>CTNNB1</b>	NM_001904	6057	c.67_99del33	<b>p.S23_S33del</b>
<b>CTNNB1</b>	NM_001904	6064	c.74_97del24	<b>p.W25_D32del</b>
<b>CTNNB1</b>	NM_001904	6076	c.88_99del12	<b>p.Y30_S33del</b>
<b>CTNNB1</b>	NM_001904	6098	c.97_98TC>CT	<b>p.S33L</b>
<b>CTNNB1</b>	NM_001904	6099	c.97_98TC>AA	<b>p.S33N</b>
<b>CTNNB1</b>	NM_001904	6140	c.120T>C	<b>p.T40T</b>
<b>EGFR</b>	NM_005228	12366	c.2572C>A	<b>p.L858M</b>
<b>EGFR</b>	NM_005228	12367	c.2237_2254del18	<b>p.E746_S752&gt;A</b>
<b>EGFR</b>	NM_005228	12369	c.2240_2254del15	<b>p.L747_T751del</b>
<b>EGFR</b>	NM_005228	12370	c.2240_2257del18	<b>p.L747_P753&gt;S</b>
<b>EGFR</b>	NM_005228	12371	c.2126A>T	<b>p.E709V</b>
<b>EGFR</b>	NM_005228	12373	c.2159C>T	<b>p.S720F</b>
<b>EGFR</b>	NM_005228	12374	c.2582T>G	<b>p.L861R</b>
<b>EGFR</b>	NM_005228	12377	c.2319_2320insCAC	<b>p.H773_V774insH</b>
<b>EGFR</b>	NM_005228	12378	c.2310_2311insGGT	<b>p.D770_N771insG</b>
<b>EGFR</b>	NM_005228	12382	c.2239_2248TTAAGAGAAG>C	<b>p.L747_A750&gt;P</b>
<b>EGFR</b>	NM_005228	12383	c.2239_2251>C	<b>p.L747_T751&gt;P</b>
<b>EGFR</b>	NM_005228	12384	c.2237_2255>T	<b>p.E746_S752&gt;V</b>
<b>EGFR</b>	NM_005228	12386	c.2237_2252>T	<b>p.E746_T751&gt;V</b>
<b>EGFR</b>	NM_005228	12427	c.2308_2309insGTT	<b>p.D770&gt;GY</b>
<b>EGFR</b>	NM_005228	12428	c.2125_2127GAA>CAT	<b>p.E709H</b>
<b>EGFR</b>	NM_005228	12429	c.2573_2574TG>GT	<b>p.L858R</b>
<b>EGFR</b>	NM_005228	12675	c.2575G>A	<b>p.A859T</b>
<b>EGFR</b>	NM_005228	12678	c.2237_2251del15	<b>p.E746_T751&gt;A</b>
<b>EGFR</b>	NM_005228	12728	c.2236_2253del18	<b>p.E746_T751del</b>
<b>EGFR</b>	NM_005228	12986	c.2429G>A	<b>p.G810D</b>
<b>EGFR</b>	NM_005228	12988	c.2125G>A	<b>p.E709K</b>
<b>EGFR</b>	NM_005228	13003	c.2310_2311insAAC	<b>p.D770_N771insN</b>
<b>EGFR</b>	NM_005228	13004	c.2310_2311insGGC	<b>p.D770_N771insG</b>
<b>EGFR</b>	NM_005228	13005	c.2318A>T	<b>p.H773L</b>
<b>EGFR</b>	NM_005228	13006	c.2320G>A	<b>p.V774M</b>
<b>EGFR</b>	NM_005228	13007	c.2335_2336GG>TT	<b>p.G779F</b>
<b>EGFR</b>	NM_005228	13008	c.2612C>G	<b>p.A871G</b>
<b>EGFR</b>	NM_005228	13009	c.2126A>G	<b>p.E709G</b>
<b>EGFR</b>	NM_005228	13180	c.2188C>T	<b>p.L730F</b>
<b>EGFR</b>	NM_005228	13181	c.2198C>T	<b>p.P733L</b>
<b>EGFR</b>	NM_005228	13182	c.2203G>A	<b>p.G735S</b>
<b>EGFR</b>	NM_005228	13183	c.2225T>C	<b>p.V742A</b>
<b>EGFR</b>	NM_005228	13184	c.2236G>A	<b>p.E746K</b>
<b>EGFR</b>	NM_005228	13185	c.2252C>T	<b>p.T751I</b>
<b>EGFR</b>	NM_005228	13186	c.2255C>A	<b>p.S752Y</b>
<b>EGFR</b>	NM_005228	13188	c.2281G>A	<b>p.D761N</b>
<b>EGFR</b>	NM_005228	13189	c.2351C>T	<b>p.S784F</b>
<b>EGFR</b>	NM_005228	13190	c.2375T>C	<b>p.L792P</b>
<b>EGFR</b>	NM_005228	13192	c.2428G>A	<b>p.G810S</b>
<b>EGFR</b>	NM_005228	13197	c.2590G>A	<b>p.A864T</b>
<b>EGFR</b>	NM_005228	13199	c.2618G>A	<b>p.G873E</b>
<b>EGFR</b>	NM_005228	133189	c.2236_2256del21	<b>p.E746_S752del</b>

EGFR	NM_005228	133197	c.2239_2257>T	p.L747_P753>S
EGFR	NM_005228	133207	c.2252_2275del24	p.T751_I759del
EGFR	NM_005228	13400	c.2457G>A	p.V819V
EGFR	NM_005228	13427	c.2126A>C	p.E709A
EGFR	NM_005228	13432	c.2193G>A	p.W731*
EGFR	NM_005228	13433	c.2318A>G	p.H773R
EGFR	NM_005228	13553	c.2572_2573CT>AG	p.L858R
EGFR	NM_005228	13556	c.2253_2276del24	p.S752_I759del
EGFR	NM_005228	13979	c.2170G>A	p.G724S
EGFR	NM_005228	14068	c.2308G>A	p.D770N
EGFR	NM_005228	14070	c.2588G>A	p.G863D
EGFR	NM_005228	14243	c.2234A>G	p.K745R
EGFR	NM_005228	17570	c.2222C>T	p.P741L
EGFR	NM_005228	18419	c.2200G>A	p.E734K
EGFR	NM_005228	18425	c.2156G>A	p.G719D
EGFR	NM_005228	18441	c.2154_2155GG>TT	p.G719C
EGFR	NM_005228	18442	c.2241_2244AAGA>CCCG	p.L747_R748>FP
EGFR	NM_005228	21683	c.323G>A	p.R108K
EGFR	NM_005228	21685	c.866C>A	p.A289D
EGFR	NM_005228	21686	c.865G>A	p.A289T
EGFR	NM_005228	21687	c.866C>T	p.A289V
EGFR	NM_005228	21689	c.1787C>T	p.P596L
EGFR	NM_005228	21690	c.1793G>T	p.G598V
EGFR	NM_005228	21984	c.2281G>T	p.D761Y
EGFR	NM_005228	22940	c.2327G>A	p.R776H
EGFR	NM_005228	22954	c.2324G>A	p.C775Y
EGFR	NM_005228	22992	c.2161G>A	p.G721S
EGFR	NM_005228	23571	c.2238_2252del15	p.L747_T751del
EGFR	NM_005228	24267	c.2239_2240TT>CC	p.L747P
EGFR	NM_005228	24869	c.2235_2252del18	p.E746_T751del
EGFR	NM_005228	26038	c.2233_2247del15	p.K745_E749del
EGFR	NM_005228	26129	c.2572C>T	p.L858L
EGFR	NM_005228	26438	c.2620G>A	p.G874S
EGFR	NM_005228	26445	c.2300C>T	p.A767V
EGFR	NM_005228	26509	c.2227G>A	p.A743T
EGFR	NM_005228	26704	c.2240T>C	p.L747S
EGFR	NM_005228	27041	c.2213T>G	p.V738G
EGFR	NM_005228	27042	c.2282A>G	p.D761G
EGFR	NM_005228	27110	c.2356G>A	p.V786M
EGFR	NM_005228	28508	c.2104G>T	p.A702S
EGFR	NM_005228	28510	c.2162G>C	p.G721A
EGFR	NM_005228	28511	c.2108T>C	p.L703P
EGFR	NM_005228	28513	c.2350T>C	p.S784P
EGFR	NM_005228	28517	c.2235_2246del12	p.E746_E749del
EGFR	NM_005228	28601	c.2135T>C	p.F712S
EGFR	NM_005228	28603	c.2293G>A	p.V765M
EGFR	NM_005228	28605	c.2611G>A	p.A871T
EGFR	NM_005228	28607	c.2603A>G	p.E868G
EGFR	NM_005228	28610	c.2441T>C	p.L814P
EGFR	NM_005228	29274	c.2254T>C	p.S752P
EGFR	NM_005228	33725	c.2609A>G	p.H870R
EGFR	NM_005228	41603	c.2134T>C	p.F712L
EGFR	NM_005228	41663	c.2462T>C	p.I821T
EGFR	NM_005228	41905	c.2092G>A	p.A698T
EGFR	NM_005228	48922	c.2311_2312insGCGTGGACA	p.D770_N771insSV D

<b>EGFR</b>	NM_005228	53194	c.2197C>T	<b>p.P733S</b>
<b>EGFR</b>	NM_005228	53292	c.2608C>T	<b>p.H870Y</b>
<b>EGFR</b>	NM_005228	6210	c.2240_2251del12	<b>p.L747_T751&gt;S</b>
<b>EGFR</b>	NM_005228	6213	c.2582T>A	<b>p.L861Q</b>
<b>EGFR</b>	NM_005228	6218	c.2239_2247del9	<b>p.L747_E749del</b>
<b>EGFR</b>	NM_005228	6220	c.2238_2255del18	<b>p.E746_S752&gt;D</b>
<b>EGFR</b>	NM_005228	6223	c.2235_2249del15	<b>p.E746_A750del</b>
<b>EGFR</b>	NM_005228	6224	c.2573T>G	<b>p.L858R</b>
<b>EGFR</b>	NM_005228	6225	c.2236_2250del15	<b>p.E746_A750del</b>
<b>EGFR</b>	NM_005228	6226	c.2326C>T	<b>p.R776C</b>
<b>EGFR</b>	NM_005228	6239	c.2156G>C	<b>p.G719A</b>
<b>EGFR</b>	NM_005228	6240	c.2369C>T	<b>p.T790M</b>
<b>EGFR</b>	NM_005228	6241	c.2303G>T	<b>p.S768I</b>
<b>EGFR</b>	NM_005228	6242	c.2305G>T	<b>p.V769L</b>
<b>EGFR</b>	NM_005228	6252	c.2155G>A	<b>p.G719S</b>
<b>EGFR</b>	NM_005228	6253	c.2155G>T	<b>p.G719C</b>
<b>EGFR</b>	NM_005228	6254	c.2239_2253del15	<b>p.L747_T751del</b>
<b>EGFR</b>	NM_005228	6255	c.2239_2256del18	<b>p.L747_S752del</b>
<b>EGFR</b>	NM_005228	6256	c.2254_2277del24	<b>p.S752_I759del</b>
<b>EGFR</b>	NM_005228	6268	c.2257C>T	<b>p.P753S</b>
<b>EGFR</b>	NM_005228	85993	c.2260A>G	<b>p.K754E</b>
<b>EGFR</b>	NM_005228	96856	c.2252_2276>A	<b>p.T751_I759&gt;N</b>
<b>EGFR</b>	NM_005228	6219	c.2248G>C	<b>p.A750P</b>
<b>EGFR</b>	NM_005228	12376	c.2307_2308ins9	<b>p.V769_D770insASV</b>
<b>EGFR</b>	NM_005228	12381	c.2319_2320ins9	<b>p.H773_V774insNPH</b>
<b>EGFR</b>	NM_005228	13428	c.2311_2312ins9	<b>p.D770_N771insSVD</b>
<b>ERBB2</b>	NM_004448	12552	c.2326_2327insTTT	<b>p.G776&gt;VC</b>
<b>ERBB2</b>	NM_004448	12553	c.2326_2327insTGT	<b>p.G776&gt;VC</b>
<b>ERBB2</b>	NM_004448	13170	c.2305G>C	<b>p.D769H</b>
<b>ERBB2</b>	NM_004448	14060	c.2264T>C	<b>p.L755S</b>
<b>ERBB2</b>	NM_004448	14062	c.2329G>T	<b>p.V777L</b>
<b>ERBB2</b>	NM_004448	14064	c.2329G>A	<b>p.V777M</b>
<b>ERBB2</b>	NM_004448	14065	c.2524G>A	<b>p.V842I</b>
<b>ERBB2</b>	NM_004448	18609	c.2327G>T	<b>p.G776V</b>
<b>ERBB2</b>	NM_004448	21985	c.2632C>T	<b>p.H878Y</b>
<b>ERBB2</b>	NM_004448	26681	c.2333_2334insGGG	<b>p.G778_S779insG</b>
<b>ERBB2</b>	NM_004448	35496	c.2330T>C	<b>p.V777A</b>
<b>ERBB2</b>	NM_004448	51317	c.2301C>G	<b>p.I767M</b>
<b>ERBB2</b>	NM_004448	683	c.2263_2264TT>CC	<b>p.L755P</b>
<b>ERBB2</b>	NM_004448	685	c.2326G>A	<b>p.G776S</b>
<b>ERBB2</b>	NM_004448	681	c.2335_2336ins9	<b>p.S779_P780insVGS</b>
<b>ERBB2</b>	NM_004448	682	c.2322_2323ins12	<b>p.M774_A775insAYVM</b>
<b>ERBB2</b>	NM_004448	12556	c.2340_2341ins9	<b>p.P780_Y781insGSP</b>
<b>ERBB2</b>	NM_004448	12558	c.2325_2326ins12	<b>p.A775_G776insYVMA</b>
<b>ERBB2</b>	NM_004448	20959	c.2324_2325ins12	<b>p.A775_G776insYVMA</b>
<b>ERBB4</b>	NM_005235	108015	c.2806G>A	<b>p.G936R</b>
<b>ERBB4</b>	NM_005235	110095	c.1022C>T	<b>p.S341L</b>
<b>ERBB4</b>	NM_005235	12833	c.908C>A	<b>p.S303Y</b>
<b>ERBB4</b>	NM_005235	20392	c.419C>T	<b>p.T140I</b>

<b>ERBB4</b>	NM_005235	48361	c.2804A>T	<b>p.K935I</b>
<b>ERBB4</b>	NM_005235	48362	c.2791G>T	<b>p.D931Y</b>
<b>ERBB4</b>	NM_005235	48363	c.1853A>C	<b>p.H618P</b>
<b>ERBB4</b>	NM_005235	48364	c.1784A>T	<b>p.D595V</b>
<b>ERBB4</b>	NM_005235	48365	c.1042G>T	<b>p.V348L</b>
<b>ERBB4</b>	NM_005235	48366	c.916C>A	<b>p.R306S</b>
<b>ERBB4</b>	NM_005235	48367	c.854A>G	<b>p.Y285C</b>
<b>ERBB4</b>	NM_005235	48368	c.731C>G	<b>p.T244R</b>
<b>ERBB4</b>	NM_005235	48369	c.542A>G	<b>p.N181S</b>
<b>EZH2</b>	NM_004456.3	37028	c.1937A>T	<b>p.Y646F</b>
<b>EZH2</b>	NM_004456.3	37029	c.1937A>C	<b>p.Y646S</b>
<b>EZH2</b>	NM_004456.3	37030	c.1936T>C	<b>p.Y646H</b>
<b>EZH2</b>	NM_004456.3	37031	c.1936T>A	<b>p.Y646N</b>
<b>EZH2</b>	NM_004456.3	37032	c.1937A>G	<b>p.Y646C</b>
<b>EZH2</b>	NM_004456.3	37033	c.1920T>A	<b>p.N640K</b>
<b>EZH2</b>	NM_004456.3	88179	c.1907C>T	<b>p.P636L</b>
<b>EZH2_ENST</b>				
<b>000003509</b>	ENST00000350995	139744	c.1804T>A	<b>p.Y602N</b>
<b>95</b>				
<b>EZH2_ENST</b>				
<b>000003509</b>	ENST00000350995	220730	c.1805A>C	<b>p.Y602S</b>
<b>95</b>				
<b>EZH2_ENST</b>				
<b>000003509</b>	ENST00000350995	220731	c.1805A>T	<b>p.Y602F</b>
<b>95</b>				
<b>EZH2_ENST</b>				
<b>000003509</b>	ENST00000350995	220732	c.1804T>C	<b>p.Y602H</b>
<b>95</b>				
<b>FBXW7</b>	NM_033632.1	133115	c.1393_1394CG>TA	<b>p.R465Y</b>
<b>FBXW7</b>	NM_033632.1	22932	c.1393C>T	<b>p.R465C</b>
<b>FBXW7</b>	NM_033632.1	22965	c.1394G>A	<b>p.R465H</b>
<b>FBXW7</b>	NM_033632.1	22971	c.832C>T	<b>p.R278*</b>
<b>FBXW7</b>	NM_033632.1	22973	c.1177C>T	<b>p.R393*</b>
<b>FBXW7</b>	NM_033632.1	22974	c.1436G>A	<b>p.R479Q</b>
<b>FBXW7</b>	NM_033632.1	22975	c.1513C>T	<b>p.R505C</b>
<b>FBXW7</b>	NM_033632.1	22979	c.1745C>T	<b>p.S582L</b>
<b>FBXW7</b>	NM_033632.1	23000	c.1514G>T	<b>p.R505L</b>
<b>FBXW7</b>	NM_033632.1	25812	c.1514G>A	<b>p.R505H</b>
<b>FBXW7</b>	NM_033632.1	27055	c.1510G>A	<b>p.V504I</b>
<b>FBXW7</b>	NM_033632.1	33762	c.1394G>T	<b>p.R465L</b>
<b>FBXW7</b>	NM_033632.1	99604	c.1513C>G	<b>p.R505G</b>
<b>FBXW7_EN</b>				
<b>ST0000028</b>	ENST00000281708	108572	c.1513C>T	<b>p.R505C</b>
<b>1708</b>				
<b>FBXW7_EN</b>				
<b>ST0000028</b>	ENST00000281708	117310	c.1394G>A	<b>p.R465H</b>
<b>1708</b>				
<b>FBXW7_EN</b>				
<b>ST0000028</b>	ENST00000281708	170727	c.1393C>T	<b>p.R465C</b>
<b>1708</b>				
<b>FBXW7_EN</b>				
<b>ST0000028</b>	ENST00000281708	99606	c.1513C>G	<b>p.R505G</b>
<b>1708</b>				
<b>FBXW7_EN</b>				
<b>ST0000053</b>	ENST00000534231	108571	c.796C>T	<b>p.R266C</b>
<b>4231</b>				

<b>FBXW7_EN ST0000053 4231</b>	ENST00000534231	117309	c.677G>A	<b>p.R226H</b>
<b>FBXW7_EN ST0000053 4231</b>	ENST00000534231	170726	c.676C>T	<b>p.R226C</b>
<b>FBXW7_EN ST0000053 4231</b>	ENST00000534231	99605	c.796C>G	<b>p.R266G</b>
<b>FBXW7_N M_018315 _2</b>	NM_018315.2	117308	c.1154G>A	<b>p.R385H</b>
<b>FBXW7_N M_018315 _2</b>	NM_018315.2	170725	c.1153C>T	<b>p.R385C</b>
<b>FBXW7_N M_018315 _2</b>	NM_018315.2	74637	c.1273C>T	<b>p.R425C</b>
<b>FBXW7_N M_018315 _2</b>	NM_018315.2	99603	c.1273C>G	<b>p.R425G</b>
<b>FGFR1</b>	NM_000604	12834	c.754C>A	<b>p.P252T</b>
<b>FGFR1</b>	NM_000604	601	c.374C>T	<b>p.S125L</b>
<b>FGFR2</b>	NM_000141.2	36901	c.929A>G	<b>p.K310R</b>
<b>FGFR2</b>	NM_000141.2	36902	c.1647T>G	<b>p.N549K</b>
<b>FGFR2</b>	NM_000141.2	36903	c.755C>G	<b>p.S252W</b>
<b>FGFR2</b>	NM_000141.2	36904	c.1124A>G	<b>p.Y375C</b>
<b>FGFR2</b>	NM_000141.2	36905	c.1115C>G	<b>p.S372C</b>
<b>FGFR2</b>	NM_000141.2	36906	c.1144T>C	<b>p.C382R</b>
<b>FGFR2</b>	NM_000141.2	36912	c.1647T>A	<b>p.N549K</b>
<b>FGFR2</b>	NM_000141.2	49170	c.758C>G	<b>p.P253R</b>
<b>FGFR3</b>	NM_000142	17461	c.1111A>T	<b>p.S371C</b>
<b>FGFR3</b>	NM_000142	24802	c.2089G>T	<b>p.G697C</b>
<b>FGFR3</b>	NM_000142	24842	c.1138G>A	<b>p.G380R</b>
<b>FGFR3</b>	NM_000142	29438	c.1921G>A	<b>p.D641N</b>
<b>FGFR3</b>	NM_000142	29446	c.753C>T	<b>p.H251H</b>
<b>FGFR3</b>	NM_000142	714	c.742C>T	<b>p.R248C</b>
<b>FGFR3</b>	NM_000142	715	c.746C>G	<b>p.S249C</b>
<b>FGFR3</b>	NM_000142	716	c.1108G>T	<b>p.G370C</b>
<b>FGFR3</b>	NM_000142	718	c.1118A>G	<b>p.Y373C</b>
<b>FGFR3</b>	NM_000142	719	c.1948A>G	<b>p.K650E</b>
<b>FGFR3</b>	NM_000142	720	c.1949A>T	<b>p.K650M</b>
<b>FGFR3</b>	NM_000142	721	c.1172C>A	<b>p.A391E</b>
<b>FGFR3</b>	NM_000142	722	c.1107G>T	<b>p.A369A</b>
<b>FGFR3</b>	NM_000142	724	c.1150T>C	<b>p.F384L</b>
<b>FGFR3</b>	NM_000142	726	c.1948A>C	<b>p.K650Q</b>
<b>FGFR3</b>	NM_000142	729	c.2381_2381T>GA	<b>p.L794fs*23</b>
<b>FGFR3</b>	NM_000142	731	c.1949A>C	<b>p.K650T</b>
<b>FLT3</b>	Z26652	158601	c.1782_1783insTCAGATAATGA GTACTTCTACGTTGATTC	<b>p.F594_R595insSDN EYFYVDF</b>
<b>FLT3</b>	Z26652	158603	c.1797_1798insCCGGCTCCTC AGATAATGAGTACTTCTACGTT GATTCAGAGAATATGAATATC GCC	<b>p.Y599_D600insPA PQIMSTSTLISENMNI A</b>
<b>FLT3</b>	Z26652	158605	c.1799_1800insATATGAATATG AATATGAATATGA	<b>p.Y599_D600insEYE YEY EY</b>

FLT3	Z26652	19522	c.1775T>C	p.V592A
FLT3	Z26652	19686	c.2508C>G	p.I836M
FLT3	Z26652	19692	c.2525A>G	p.Y842C
FLT3	Z26652	19836	c.2508_2510delCAT	p.I836del
FLT3	Z26652	24530	c.2506_2508ATC>TTT	p.I836F
FLT3	Z26652	24531	c.2509_2510AT>CC	p.M837P
FLT3	Z26652	25248	c.2492G>A	p.G831E
FLT3	Z26652	27650	c.2504A>C	p.D835A
FLT3	Z26652	27906	c.1796A>T	p.Y599F
FLT3	Z26652	28042	c.1352C>T	p.S451F
FLT3	Z26652	28044	c.1715A>G	p.Y572C
FLT3	Z26652	28047	c.2501G>A	p.R834Q
FLT3	Z26652	783	c.2503G>T	p.D835Y
FLT3	Z26652	784	c.2504A>T	p.D835V
FLT3	Z26652	785	c.2503G>C	p.D835H
FLT3	Z26652	786	c.2039C>T	p.A680V
FLT3	Z26652	787	c.2505T>A	p.D835E
FLT3	Z26652	788	c.2505T>G	p.D835E
FLT3	Z26652	789	c.2503G>A	p.D835N
FLT3	Z26652	796	c.2503_2505delGAT	p.D835del
FLT3	Z26652	797	c.2506_2508delATC	p.I836del
FLT3	Z26652	850	c.2520_2521insGGATCC	p.S840_N841insGS
FLT3	Z26652	19737	c.1803_1804ins81	p.L601_K602ins27
FLT3	Z26652	19790	c.1807_1808ins18	p.K602_W603insYE YDLK
FLT3	Z26652	27979	c.1788_1789ins36	p.E596_Y597ins12
FLT3	Z26652	28771	c.1811_1812ins30	p.W603_E604insDR EYEYDLKW
FLT3	Z26652	28921	c.1798_1799ins45	p.Y599_D600ins15
GNA11	NM_002067.1	52969	c.626A>T	p.Q209L
GNA11	NM_002067.1	52970	c.626A>C	p.Q209P
GNA11	NM_002067.1	238583	c.625C>A	p.Q209K
GNA11	NM_002067.1	52971	c.626_627AG>TA	p.Q209L
GNA11	NM_002067.1	52972	c.626_627AG>TT	p.Q209L
GNAQ	NM_002072.2	28757	c.626A>T	p.Q209L
GNAQ	NM_002072.2	28758	c.626A>C	p.Q209P
GNAQ	NM_002072.2	28759	c.625_626CA>TT	p.Q209L
GNAQ	NM_002072.2	132932	c.625C>A	p.Q209K
GNAQ	NM_002072.2	28760	c.626A>G	p.Q209R
GNAQ	NM_002072.2	28770	c.627A>T	p.Q209H
GNAS	NM_000516.3	27887	c.601C>T	p.R201C
GNAS	NM_000516.3	27888	c.680A>T	p.Q227L
GNAS	NM_000516.3	27895	c.602G>A	p.R201H
GNAS	NM_000516.3	27896	c.680A>G	p.Q227R
GNAS	NM_000516.3	27899	c.601C>A	p.R201S
GNAS	NM_000516.3	27900	c.681G>T	p.Q227H
GNAS	NM_000516.3	192557	c.699G>T	p.K233N
GNAS	NM_000516.3	28618	c.679C>A	p.Q227K
GNAS	NM_000516	NOCOSMIC227	c.679C>G	p.Q227E
GNAS_EN ST0000037 1100	ENST00000371100	123397	c.2530C>T	p.R844C
GNAS_EN ST0000037 1100	ENST00000371100	94388	c.2531G>A	p.R844H
GNAS_EN	ENST00000371100	192558	c.2628G>T	p.K876N

**ST0000037**

**1100**

<b>HNF1A</b>	NM_000545.3	21471	c.617G>T	<b>p.W206L</b>
<b>HNF1A</b>	NM_000545.3	21477	c.817A>G	<b>p.K273E</b>
<b>HNF1A</b>	NM_000545.3	21478	c.618G>T	<b>p.W206C</b>
<b>HNF1A</b>	NM_000545.3	24692	c.787C>T	<b>p.R263C</b>
<b>HNF1A</b>	NM_000545.3	24900	c.632A>C	<b>p.Q211P</b>
<b>HNF1A</b>	NM_000545.3	24915	c.607C>T	<b>p.R203C</b>
<b>HNF1A</b>	NM_000545.3	24918	c.618G>C	<b>p.W206C</b>
<b>HNF1A</b>	NM_000545.3	24923	c.779C>T	<b>p.T260M</b>
<b>HNF1A</b>	NM_000545.3	24931	c.620G>A	<b>p.G207D</b>
<b>HNF1A</b>	NM_000545.3	24933	c.815G>A	<b>p.R272H</b>
<b>HRAS</b>	NM_005343	249860	c.81T>C	<b>p.H27H</b>
<b>HRAS</b>	NM_005343	33692	c.185A>G	<b>p.E62G</b>
<b>HRAS</b>	NM_005343	33695	c.182_183AG>GA	<b>p.Q61R</b>
<b>HRAS</b>	NM_005343	479	c.33C>T	<b>p.A11A</b>
<b>HRAS</b>	NM_005343	480	c.34G>A	<b>p.G12S</b>
<b>HRAS</b>	NM_005343	481	c.34G>T	<b>p.G12C</b>
<b>HRAS</b>	NM_005343	482	c.34G>C	<b>p.G12R</b>
<b>HRAS</b>	NM_005343	483	c.35G>T	<b>p.G12V</b>
<b>HRAS</b>	NM_005343	484	c.35G>A	<b>p.G12D</b>
<b>HRAS</b>	NM_005343	485	c.35G>C	<b>p.G12A</b>
<b>HRAS</b>	NM_005343	486	c.37G>C	<b>p.G13R</b>
<b>HRAS</b>	NM_005343	487	c.37G>A	<b>p.G13S</b>
<b>HRAS</b>	NM_005343	488	c.37G>T	<b>p.G13C</b>
<b>HRAS</b>	NM_005343	489	c.38G>T	<b>p.G13V</b>
<b>HRAS</b>	NM_005343	490	c.38G>A	<b>p.G13D</b>
<b>HRAS</b>	NM_005343	496	c.181C>A	<b>p.Q61K</b>
<b>HRAS</b>	NM_005343	498	c.182A>T	<b>p.Q61L</b>
<b>HRAS</b>	NM_005343	499	c.182A>G	<b>p.Q61R</b>
<b>HRAS</b>	NM_005343	500	c.182A>C	<b>p.Q61P</b>
<b>HRAS</b>	NM_005343	501	c.182_183AG>GT	<b>p.Q61R</b>
<b>HRAS</b>	NM_005343	502	c.183G>T	<b>p.Q61H</b>
<b>HRAS</b>	NM_005343	503	c.183G>C	<b>p.Q61H</b>
<b>HRAS</b>	NM_005343	52978	c.182_183AG>TA	<b>p.Q61L</b>
<b>HRAS</b>	NM_005343	52979	c.181_182CA>AG	<b>p.Q61R</b>
<b>HRAS_ENS</b>				
<b>T00000397</b>	ENST00000397594	123649	c.181C>A	<b>p.Q61K</b>
<b>594</b>				
<b>HRAS_ENS</b>				
<b>T00000397</b>	ENST00000397594	99664	c.182A>T	<b>p.Q61L</b>
<b>594</b>				
<b>HRAS_ENS</b>				
<b>T00000397</b>	ENST00000397594	99915	c.35G>A	<b>p.G12D</b>
<b>594</b>				
<b>IDH1</b>	NM_005896.2	28746	c.395G>A	<b>p.R132H</b>
<b>IDH1</b>	NM_005896.2	28747	c.394C>T	<b>p.R132C</b>
<b>IDH1</b>	NM_005896.2	28748	c.394C>A	<b>p.R132S</b>
<b>IDH1</b>	NM_005896.2	28749	c.394C>G	<b>p.R132G</b>
<b>IDH1</b>	NM_005896.2	28750	c.395G>T	<b>p.R132L</b>
<b>IDH1</b>	NM_005896.2	86993	c.395_396GT>AC	<b>p.R132H</b>
<b>IDH1</b>	NM_005896.2	242544	c.356G>A	<b>p.R119Q</b>
<b>IDH1</b>	NM_005896.2	28751	c.394_395CG>GT	<b>p.R132V</b>
<b>IDH1</b>	NM_005896.2	51542	c.368G>A	<b>p.G123E</b>
<b>IDH1</b>	NM_005896.2	96532	c.390A>G	<b>p.I130M</b>
<b>IDH1</b>	NM_005896.2	96533	c.399T>A	<b>p.H133Q</b>



IDH1	NM_005896.2	96534	c.401C>A	p.A134D
IDH1	NM_005896.2	96922	c.367G>A	p.G123R
IDH1	NM_005896.2	97049	c.347A>G	p.N116S
IDH1	NM_005896	NOCOSMIC105	c.315C>T	p.G105G
IDH2	NM_002168.2	133672	c.516G>C	p.R172S
IDH2	NM_002168.2	33731	c.514A>G	p.R172G
IDH2	NM_002168.2	33732	c.515G>T	p.R172M
IDH2	NM_002168.2	33733	c.515G>A	p.R172K
IDH2	NM_002168.2	34039	c.514A>T	p.R172W
IDH2	NM_002168.2	34090	c.516G>T	p.R172S
IDH2	NM_002168.2	41590	c.419G>A	p.R140Q
IDH2	NM_002168.2	41875	c.419G>T	p.R140L
IDH2	NM_002168.2	41877	c.418C>T	p.R140W
IDH2	NM_002168.2	227366	c.415A>T	p.I139F
IDH2	NM_002168.2	86959	c.472C>A	p.P158T
IDH2	NM_002168.2	86960	c.512G>A	p.G171D
JAK2	ENST00000381652	12600	c.1849G>T	p.V617F
JAK2	ENST00000381652	25834	c.1848_1849TG>CT	p.V617F
JAK2	ENST00000381652	27063	c.1860C>A	p.D620E
JAK2	ENST00000381652	29118	c.1852T>C	p.C618R
JAK2	ENST00000381652	51411	c.1831T>G	p.L611V
JAK3	NM_000215	34196	c.420+28G>A	p.?
JAK3	NM_000215	34197	c.420+5G>A	p.?
JAK3	NM_000215	34213	c.2164G>A	p.V722I
JAK3	NM_000215	34214	c.1715C>T	p.A572V
JAK3	NM_000215	34215	c.1718C>T	p.A573V
JAK3	NM_000215	34216	c.394C>A	p.P132T
KDR	NM_002253	21091	c.743C>G	p.A248G
KDR	NM_002253	32294	c.2617G>A	p.G873R
KDR	NM_002253	32339	c.824G>T	p.R275L
KDR	NM_002253	48460	c.3629C>T	p.P1210L
KDR	NM_002253	48461	c.3434G>A	p.G1145E
KDR	NM_002253	48462	c.3418C>A	p.L1140M
KDR	NM_002253	48463	c.2951G>C	p.S984T
KDR	NM_002253	48464	c.2917G>T	p.A973S
KDR	NM_002253	48465	c.1426G>T	p.V476L
KDR	NM_002253	48875	c.3922G>T	p.G1308*
KDR	NM_002253	48977	c.4063_4065delCCT	p.P1355del
KIT	NM_000222	1145	c.153C>G	p.G51G
KIT	NM_000222	1146	c.154G>A	p.D52N
KIT	NM_000222	1155	c.1588G>A	p.V530I
KIT	NM_000222	1169	c.1651_1665del15	p.P551_V555del
KIT	NM_000222	1177	c.1653_1670del18	p.M552_W557del
KIT	NM_000222	1179	c.1654_1659delATGTAT	p.M552_Y553del
KIT	NM_000222	1180	c.1654_1671del18	p.M552_W557del
KIT	NM_000222	1181	c.1654_1662del9	p.M552_E554del
KIT	NM_000222	1183	c.1654A>C	p.M552L
KIT	NM_000222	1187	c.1656_1670del15	p.Y553_W557del
KIT	NM_000222	1189	c.1657_1668del12	p.Y553_Q556del
KIT	NM_000222	1190	c.1657_1674del18	p.Y553_K558del
KIT	NM_000222	1192	c.1660_1674del15	p.E554_K558del
KIT	NM_000222	1194	c.1662_1685del24	p.V555_E562del
KIT	NM_000222	1198	c.1663_1677del15	p.V555_V559del
KIT	NM_000222	1199	c.1663_1674del12	p.V555_K558del
KIT	NM_000222	1200	c.1663_1713del51	p.V555_I571del
KIT	NM_000222	1201	c.1663_1668delGTACAG	p.V555_Q556del

KIT	NM_000222	1202	c.1663_1680del18	p.V555_V560del
KIT	NM_000222	1203	c.1663_1719del57	p.V555_P573del
KIT	NM_000222	1204	c.1666_1680del15	p.Q556_V560del
KIT	NM_000222	1205	c.1666_1728del63	p.Q556_L576del
KIT	NM_000222	1210	c.1667_1672delAGTGGA	p.W557_K558del
KIT	NM_000222	1211	c.1668_1673delGTGGAA	p.W557_K558del
KIT	NM_000222	1213	c.1668_1679del12	p.Q556_V560>H
KIT	NM_000222	1216	c.1669T>A	p.W557R
KIT	NM_000222	1217	c.1669_1674delTGGAAAG	p.W557_K558del
KIT	NM_000222	1218	c.1669_1677del9	p.W557_V559del
KIT	NM_000222	1219	c.1669T>C	p.W557R
KIT	NM_000222	1220	c.1669_1671delTGG	p.W557del
KIT	NM_000222	1221	c.1669T>G	p.W557G
KIT	NM_000222	1223	c.1669_1680del12	p.W557_V560del
KIT	NM_000222	1226	c.1670_1675delGGAAGG	p.W557_V559>F
KIT	NM_000222	1227	c.1670G>C	p.W557S
KIT	NM_000222	1229	c.1670_1717del48	p.W557_P573>S
KIT	NM_000222	1232	c.1671_1679del9	p.W557_V560>C
KIT	NM_000222	1233	c.1671_1676delGAAGGT	p.W557_V559>C
KIT	NM_000222	1234	c.1672_1680del9	p.K558_V560del
KIT	NM_000222	1235	c.1672_1677delAAGGTT	p.K558_V559del
KIT	NM_000222	1238	c.1672_1692del21	p.K558_N564del
KIT	NM_000222	1239	c.1672_1686del15	p.K558_E562del
KIT	NM_000222	1241	c.1673_1678delAGGTTG	p.K558_V560>I
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KIT	NM_000222	1245	c.1674_1674G>TCCT	p.K558>NP
KIT	NM_000222	1247	c.1675_1677delGTT	p.V559del
KIT	NM_000222	1248	c.1675_1680delGTTGTT	p.V559_V560del
KIT	NM_000222	1249	c.1675_1695del21	p.V559_G565del
KIT	NM_000222	1250	c.1675_1683del9	p.V559_E561del
KIT	NM_000222	1251	c.1675G>A	p.V559I
KIT	NM_000222	1252	c.1676T>A	p.V559D
KIT	NM_000222	1253	c.1676T>G	p.V559G
KIT	NM_000222	1254	c.1676_1684del9	p.V559_E561del
KIT	NM_000222	1255	c.1676T>C	p.V559A
KIT	NM_000222	1256	c.1678_1680delGTT	p.V560del
KIT	NM_000222	1257	c.1679T>A	p.V560D
KIT	NM_000222	1258	c.1679_1681delTTG	p.V560del
KIT	NM_000222	1260	c.1679T>G	p.V560G
KIT	NM_000222	1264	c.1681G>A	p.E561K
KIT	NM_000222	1265	c.1683G>A	p.E561E
KIT	NM_000222	12706	c.1961T>C	p.V654A
KIT	NM_000222	12708	c.2009C>T	p.T670I
KIT	NM_000222	12709	c.2460T>A	p.D820E
KIT	NM_000222	1270	c.1690_1728del39	p.N564_L576del
KIT	NM_000222	12710	c.2458G>T	p.D820Y
KIT	NM_000222	12711	c.2447A>G	p.D816G
KIT	NM_000222	1273	c.1696A>G	p.N566D
KIT	NM_000222	1275	c.1698C>T	p.N566N
KIT	NM_000222	1277	c.1702T>G	p.Y568D
KIT	NM_000222	1285	c.1708_1728del21	p.Y570_L576del
KIT	NM_000222	1289	c.1726_1728delCTT	p.L576del
KIT	NM_000222	1290	c.1727T>C	p.L576P
KIT	NM_000222	1293	c.1729C>T	p.P577S
KIT	NM_000222	1294	c.1735_1737delGAT	p.D579del
KIT	NM_000222	1297	c.1751T>C	p.F584S

KIT	NM_000222	1299	c.1755C>T	p.P585P
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KIT	NM_000222	1306	c.2143_2145delAGC	p.S715del
KIT	NM_000222	1310	c.2446G>T	p.D816Y
KIT	NM_000222	1311	c.2446G>C	p.D816H
KIT	NM_000222	1312	c.2446_2447GA>TT	p.D816F
KIT	NM_000222	1314	c.2447A>T	p.D816V
KIT	NM_000222	1315	c.2453A>G	p.K818R
KIT	NM_000222	1316	c.2459A>G	p.D820G
KIT	NM_000222	1317	c.2459A>T	p.D820V
KIT	NM_000222	1321	c.2466T>A	p.N822K
KIT	NM_000222	1322	c.2466T>G	p.N822K
KIT	NM_000222	1323	c.2474T>C	p.V825A
KIT	NM_000222	1324	c.2515G>A	p.E839K
KIT	NM_000222	1326	c.1509_1510insGCCTAT	p.Y503_F504insAY
KIT	NM_000222	1327	c.1654_1668del15	p.M552_Q556del
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KIT	NM_000222	1334	c.1702_1722del21	p.Y568_T574del
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KIT	NM_000222	133763	c.1657T>A	p.Y553N
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KIT	NM_000222	133767	c.2558G>A	p.W853*
KIT	NM_000222	17944	c.1660G>A	p.E554K
KIT	NM_000222	17946	c.1684G>A	p.E562K
KIT	NM_000222	18681	c.2467T>G	p.Y823D
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KIT	NM_000222	18896	c.1673_1687del15	p.K558_E562del
KIT	NM_000222	19029	c.1701T>A	p.N567K
KIT	NM_000222	19109	c.2464A>T	p.N822Y
KIT	NM_000222	19110	c.2473G>A	p.V825I
KIT	NM_000222	19285	c.2448C>G	p.D816E
KIT	NM_000222	19293	c.2008_2009AC>GA	p.T670E
KIT	NM_000222	19310	c.1669_1674delTGGAAAG	p.W557_K558del
KIT	NM_000222	21976	c.1673_1674insTCC	p.K558>NP
KIT	NM_000222	21978	c.1671_1673GAA>TCC	p.W557_K558>CP
KIT	NM_000222	21979	c.2446_2447GA>AT	p.D816I
KIT	NM_000222	21983	c.1638A>G	p.K546K
KIT	NM_000222	22275	c.1658_1720del63	p.Y553_T574>S
KIT	NM_000222	22379	c.2458G>C	p.D820H
KIT	NM_000222	23418	c.?-?del?	p.Q556_K558del
KIT	NM_000222	23560	c.1690_1734del45	p.N564_Y578del
KIT	NM_000222	24748	c.1669_1672TGGA>G	p.W557_K558>E
KIT	NM_000222	25064	c.1928T>C	p.V643A
KIT	NM_000222	27069	c.1674_1679delGGTTGT	p.K558_V560>N
KIT	NM_000222	27909	c.1656_1673del18	p.Y553_K558>
KIT	NM_000222	27910	c.2433T>C	p.F811F
KIT	NM_000222	28026	c.1621A>C	p.M541L
KIT	NM_000222	28637	c.1672_1676AAGGT>TCTTC	p.K558_V559>SS
KIT	NM_000222	29015	c.1673A>G	p.K558R
KIT	NM_000222	29442	c.1687_1728del42	p.I563_L576del
KIT	NM_000222	30551	c.1672A>G	p.K558E
KIT	NM_000222	33965	c.1652C>T	p.P551L

<b>KIT</b>	NM_000222	33966	c.1726C>T	<b>p.L576F</b>
<b>KIT</b>	NM_000222	36293	c.1678_1728del51	<b>p.V560_L576del</b>
<b>KIT</b>	NM_000222	36305	c.1745G>A	<b>p.W582*</b>
<b>KIT</b>	NM_000222	36311	c.1655_1660delTGATG	<b>p.M552_E554&gt;K</b>
<b>KIT</b>	NM_000222	36313	c.1746G>A	<b>p.W582*</b>
<b>KIT</b>	NM_000222	96868	c.1655_1666del12	<b>p.M552_Q556&gt;K</b>
<b>KIT</b>	NM_000222	96883	c.1718C>T	<b>p.P573L</b>
<b>KIT</b>	NM_000222	96885	c.1526A>T	<b>p.K509I</b>
<b>KIT</b>	NM_000222	96888	c.1714G>A	<b>p.D572N</b>
<b>KRAS</b>	NM_004985	12654	c.30_31insGGA	<b>p.G10_A11insG</b>
<b>KRAS</b>	NM_004985	12655	c.36_37insGGT	<b>p.G12_G13insG</b>
<b>KRAS</b>	NM_004985	12703	c.57G>C	<b>p.L19F</b>
<b>KRAS</b>	NM_004985	12721	c.38_39GC>TT	<b>p.G13V</b>
<b>KRAS</b>	NM_004985	12722	c.40G>A	<b>p.V14I</b>
<b>KRAS</b>	NM_004985	12729	c.180_181TC>CA	<b>p.Q61K</b>
<b>KRAS</b>	NM_004985	14209	c.35_36GT>AC	<b>p.G12D</b>
<b>KRAS</b>	NM_004985	19404	c.436G>A	<b>p.A146T</b>
<b>KRAS</b>	NM_004985	19900	c.437C>T	<b>p.A146V</b>
<b>KRAS</b>	NM_004985	19905	c.436G>C	<b>p.A146P</b>
<b>KRAS</b>	NM_004985	19940	c.351A>C	<b>p.K117N</b>
<b>KRAS</b>	NM_004985	20818	c.57G>T	<b>p.L19F</b>
<b>KRAS</b>	NM_004985	219781	c.39_40insGGC	<b>p.G13_V14insG</b>
<b>KRAS</b>	NM_004985	25081	c.34_35GG>TA	<b>p.G12Y</b>
<b>KRAS</b>	NM_004985	28518	c.176C>G	<b>p.A59G</b>
<b>KRAS</b>	NM_004985	28519	c.351A>T	<b>p.K117N</b>
<b>KRAS</b>	NM_004985	34144	c.34_35GG>AT	<b>p.G12I</b>
<b>KRAS</b>	NM_004985	36281	c.34_36GGT>TGG	<b>p.G12W</b>
<b>KRAS</b>	NM_004985	507	c.24A>G	<b>p.V8V</b>
<b>KRAS</b>	NM_004985	510	c.31G>C	<b>p.A11P</b>
<b>KRAS</b>	NM_004985	511	c.32C>T	<b>p.A11V</b>
<b>KRAS</b>	NM_004985	512	c.34_35GG>TT	<b>p.G12F</b>
<b>KRAS</b>	NM_004985	513	c.34_36GGT>TGC	<b>p.G12C</b>
<b>KRAS</b>	NM_004985	514	c.34_35GG>CT	<b>p.G12L</b>
<b>KRAS</b>	NM_004985	515	c.35_36GT>TC	<b>p.G12V</b>
<b>KRAS</b>	NM_004985	516	c.34G>T	<b>p.G12C</b>
<b>KRAS</b>	NM_004985	517	c.34G>A	<b>p.G12S</b>
<b>KRAS</b>	NM_004985	518	c.34G>C	<b>p.G12R</b>
<b>KRAS</b>	NM_004985	519	c.35_36GT>AA	<b>p.G12E</b>
<b>KRAS</b>	NM_004985	520	c.35G>T	<b>p.G12V</b>
<b>KRAS</b>	NM_004985	521	c.35G>A	<b>p.G12D</b>
<b>KRAS</b>	NM_004985	522	c.35G>C	<b>p.G12A</b>
<b>KRAS</b>	NM_004985	523	c.36T>C	<b>p.G12G</b>
<b>KRAS</b>	NM_004985	524	c.36T>A	<b>p.G12G</b>
<b>KRAS</b>	NM_004985	526	c.37_39GGC>CGT	<b>p.G13R</b>
<b>KRAS</b>	NM_004985	527	c.37G>T	<b>p.G13C</b>
<b>KRAS</b>	NM_004985	528	c.37G>A	<b>p.G13S</b>
<b>KRAS</b>	NM_004985	529	c.37G>C	<b>p.G13R</b>
<b>KRAS</b>	NM_004985	530	c.38_39GC>TG	<b>p.G13V</b>
<b>KRAS</b>	NM_004985	531	c.38_39GC>AT	<b>p.G13D</b>
<b>KRAS</b>	NM_004985	532	c.38G>A	<b>p.G13D</b>
<b>KRAS</b>	NM_004985	533	c.38G>C	<b>p.G13A</b>
<b>KRAS</b>	NM_004985	534	c.38G>T	<b>p.G13V</b>
<b>KRAS</b>	NM_004985	535	c.39C>G	<b>p.G13G</b>
<b>KRAS</b>	NM_004985	536	c.39C>T	<b>p.G13G</b>
<b>KRAS</b>	NM_004985	537	c.39C>A	<b>p.G13G</b>
<b>KRAS</b>	NM_004985	538	c.43G>A	<b>p.G15S</b>

<b>KRAS</b>	NM_004985	542	c.53C>A	<b>p.A18D</b>
<b>KRAS</b>	NM_004985	543	c.64C>A	<b>p.Q22K</b>
<b>KRAS</b>	NM_004985	546	c.175G>A	<b>p.A59T</b>
<b>KRAS</b>	NM_004985	547	c.176C>A	<b>p.A59E</b>
<b>KRAS</b>	NM_004985	549	c.181C>A	<b>p.Q61K</b>
<b>KRAS</b>	NM_004985	550	c.181C>G	<b>p.Q61E</b>
<b>KRAS</b>	NM_004985	551	c.182A>C	<b>p.Q61P</b>
<b>KRAS</b>	NM_004985	552	c.182A>G	<b>p.Q61R</b>
<b>KRAS</b>	NM_004985	553	c.182A>T	<b>p.Q61L</b>
<b>KRAS</b>	NM_004985	554	c.183A>C	<b>p.Q61H</b>
<b>KRAS</b>	NM_004985	555	c.183A>T	<b>p.Q61H</b>
<b>KRAS</b>	NM_004985	87280	c.38_39GC>AA	<b>p.G13E</b>
<b>KRAS</b>	NM_004985	87281	c.36_37TG>AT	<b>p.G13C</b>
<b>KRAS</b>	NM_004985	87288	c.173C>T	<b>p.T58I</b>
<b>KRAS</b>	NM_004985	87298	c.180_181TC>AA	<b>p.Q61K</b>
<b>KRAS</b>	NM_004985	87301	c.33_34insGGAGCT	<b>p.A11_G12insGA</b>
<b>MET</b>	NM_000245	690	c.3742T>C	<b>p.Y1248H</b>
<b>MET</b>	NM_000245	691	c.3803T>C	<b>p.M1268T</b>
<b>MET</b>	NM_000245	696	c.3334C>T	<b>p.H1112Y</b>
<b>MET</b>	NM_000245	699	c.3743A>G	<b>p.Y1248C</b>
<b>MET</b>	NM_000245	700	c.3757T>G	<b>p.Y1253D</b>
<b>MET</b>	NM_000245	703	c.3335A>G	<b>p.H1112R</b>
<b>MET</b>	NM_000245	706	c.504G>T	<b>p.E168D</b>
<b>MET</b>	NM_000245	707	c.3029C>T	<b>p.T1010I</b>
<b>MET</b>	NM_000245	710	c.1124A>G	<b>p.N375S</b>
<b>MET</b>	NM_000245	201908	c.3350A>G	<b>p.D1117G</b>
<b>MET</b>	NM_000245	29636	c.2942_3082del141	<b>p.982_1028del47</b>
<b>MET</b>	NM_000245	49015	c.2942-20del22	<b>p.?</b>
<b>MET</b>	NM_000245	697	c.3370C>G	<b>p.H1124D</b>
<b>MET</b>	NM_000245	698	c.3335A>T	<b>p.H1112L</b>
<b>MET</b>	NM_000245	701	c.3390G>A	<b>p.L1130L</b>
<b>MET</b>	NM_000245	702	c.3352A>T	<b>p.N1118Y</b>
<b>MET</b>	NM_001127500	NOCOSMIC848	c.2543A>C	<b>p.Y848S</b>
<b>MET</b>	NM_001127500	NOCOSMIC988	c.2962C>T	<b>p.R988C</b>
<b>MLH1</b>	NM_000249.2	26085	c.1151T>A	<b>p.V384D</b>
<b>MPL</b>	NM_005373.1	142839	c.1544G>C	<b>p.W515S</b>
<b>MPL</b>	NM_005373.1	18918	c.1544G>T	<b>p.W515L</b>
<b>MPL</b>	NM_005373.1	19193	c.1543_1544TG>AA	<b>p.W515K</b>
<b>MPL</b>	NM_005373.1	27286	c.1514G>A	<b>p.S505N</b>
<b>MPL</b>	NM_005373.1	27287	c.1516G>A	<b>p.A506T</b>
<b>MPL</b>	NM_005373.1	27289	c.1543_1544TG>GC	<b>p.W515A</b>
<b>MPL</b>	NM_005373.1	27290	c.1555G>A	<b>p.A519T</b>
<b>MPL</b>	NM_005373.1	28487	c.1543_1545TGG>AAA	<b>p.W515K</b>
<b>MPL</b>	NM_005373.1	29008	c.1543T>A	<b>p.W515R</b>
<b>MPL</b>	NM_005373.1	43212	c.1543T>C	<b>p.W515R</b>
<b>NOTCH1</b>	NM_017617.2	12771	c.4802T>C	<b>p.L1601P</b>
<b>NOTCH1</b>	NM_017617.2	12772	c.4724T>C	<b>p.L1575P</b>
<b>NOTCH1</b>	NM_017617.2	12776	c.7378C>T	<b>p.Q2460*</b>
<b>NOTCH1</b>	NM_017617.2	13040	c.5030T>A	<b>p.V1677D</b>
<b>NOTCH1</b>	NM_017617.2	13042	c.4781T>C	<b>p.L1594P</b>
<b>NOTCH1</b>	NM_017617.2	13046	c.4757T>C	<b>p.L1586P</b>
<b>NOTCH1</b>	NM_017617.2	13047	c.4735_4737delGTG	<b>p.V1579del</b>
<b>NOTCH1</b>	NM_017617.2	13048	c.5036T>C	<b>p.L1679P</b>
<b>NOTCH1</b>	NM_017617.2	13050	c.4778T>C	<b>p.F1593S</b>
<b>NOTCH1</b>	NM_017617.2	13053	c.4796G>C	<b>p.R1599P</b>
<b>NOTCH1</b>	NM_017617.2	13061	c.7321C>T	<b>p.Q2441*</b>

<b>NOTCH1</b>	NM_017617.2	13070	c.7389delC	<b>p.P2463fs*15</b>
<b>NOTCH1</b>	NM_017617.2	13081	c.7403C>A	<b>p.S2468*</b>
<b>NOTCH1</b>	NM_017617.2	24673	c.4724T>C	<b>p.L1575P</b>
<b>NOTCH1</b>	NM_017617.2	24886	c.7390delG	<b>p.A2464fs*14</b>
<b>NOTCH1</b>	NM_017617.2	24888	c.4790T>A	<b>p.L1597H</b>
<b>NOTCH1</b>	NM_017617.2	25836	c.4730T>A	<b>p.V1577E</b>
<b>NOTCH1</b>	NM_017617.2	25839	c.4757T>G	<b>p.L1586R</b>
<b>NOTCH1</b>	NM_017617.2	28524	c.4802T>A	<b>p.L1601Q</b>
<b>NOTCH1</b>	NM_017617.2	28662	c.7402_7403insGG	<b>p.S2468fs*11</b>
<b>NPM1</b>	NM_002520.4	158600	c.861_862insTGCA	<b>p.W288fs*&gt;9</b>
<b>NPM1</b>	NM_002520.4	158604	c.859_860insTCTG	<b>p.W288fs*&gt;9</b>
<b>NPM1</b>	NM_002520.4	17559	c.863_864insTCTG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	17571	c.863_864insCATG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	17572	c.863_864insCGTG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	17573	c.863_864insCCTG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	19317	c.863_864insGCCA	<b>p.Q289fs*11</b>
<b>NPM1</b>	NM_002520.4	19318	c.885+11 delT	<b>p.?</b>
<b>NPM1</b>	NM_002520.4	20806	c.863_864insCCGG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20809	c.863_864insCCAG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20810	c.863_864insTTTG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20811	c.863_864insCTTG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20813	c.863_864insTCGG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20814	c.863_864insCAGA	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20815	c.863_864insTATG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20841	c.863_864insTAAG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20851	c.867_868insAGAC	<b>p.W290fs*10</b>
<b>NPM1</b>	NM_002520.4	20855	c.863_864insTGTG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20856	c.863_864insTCAG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	20861	c.861_862insTGCT	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	25119	c.863_864insTACG	<b>p.W288fs*10</b>
<b>NPM1</b>	NM_002520.4	27065	c.863_864insTAGG	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	27084	c.867_868insCGGC	<b>p.W290fs*10</b>
<b>NPM1</b>	NM_002520.4	28072	c.868T>G	<b>p.W290G</b>
<b>NPM1</b>	NM_002520.4	28937	c.860_861insCTGC	<b>p.W288fs*12</b>
<b>NPM1</b>	NM_002520.4	33980	c.863_864insCCGA	<b>p.W288fs*10</b>
<b>NPM1</b>	NM_002520.4	33981	c.867_868insAGGC	<b>p.W290fs*8</b>
<b>NPM1</b>	NM_002520.4	85977	c.867_868insAGGA	<b>p.W290fs*8</b>
<b>NRAS</b>	NM_002524	12723	c.34_35GG>AA	<b>p.G12N</b>
<b>NRAS</b>	NM_002524	12725	c.181_182CA>TT	<b>p.Q61L</b>
<b>NRAS</b>	NM_002524	12730	c.180_181AC>TA	<b>p.Q61K</b>
<b>NRAS</b>	NM_002524	28673	c.179G>A	<b>p.G60E</b>
<b>NRAS</b>	NM_002524	30646	c.182_183AA>TG	<b>p.Q61L</b>
<b>NRAS</b>	NM_002524	33693	c.182_183AA>GG	<b>p.Q61R</b>
<b>NRAS</b>	NM_002524	53223	c.181_183CAA>AAG	<b>p.Q61K</b>
<b>NRAS</b>	NM_002524	558	c.31G>A	<b>p.A11T</b>
<b>NRAS</b>	NM_002524	561	c.34G>C	<b>p.G12R</b>
<b>NRAS</b>	NM_002524	562	c.34G>T	<b>p.G12C</b>
<b>NRAS</b>	NM_002524	563	c.34G>A	<b>p.G12S</b>
<b>NRAS</b>	NM_002524	564	c.35G>A	<b>p.G12D</b>
<b>NRAS</b>	NM_002524	565	c.35G>C	<b>p.G12A</b>
<b>NRAS</b>	NM_002524	566	c.35G>T	<b>p.G12V</b>
<b>NRAS</b>	NM_002524	567	c.36T>C	<b>p.G12G</b>
<b>NRAS</b>	NM_002524	569	c.37G>C	<b>p.G13R</b>
<b>NRAS</b>	NM_002524	570	c.37G>T	<b>p.G13C</b>
<b>NRAS</b>	NM_002524	571	c.37G>A	<b>p.G13S</b>
<b>NRAS</b>	NM_002524	572	c.38_39GT>TC	<b>p.G13V</b>

<b>NRAS</b>	NM_002524	573	c.38G>A	<b>p.G13D</b>
<b>NRAS</b>	NM_002524	574	c.38G>T	<b>p.G13V</b>
<b>NRAS</b>	NM_002524	575	c.38G>C	<b>p.G13A</b>
<b>NRAS</b>	NM_002524	576	c.39T>C	<b>p.G13G</b>
<b>NRAS</b>	NM_002524	577	c.52G>A	<b>p.A18T</b>
<b>NRAS</b>	NM_002524	579	c.181_182CA>AG	<b>p.Q61R</b>
<b>NRAS</b>	NM_002524	580	c.181C>A	<b>p.Q61K</b>
<b>NRAS</b>	NM_002524	581	c.181C>G	<b>p.Q61E</b>
<b>NRAS</b>	NM_002524	582	c.182A>C	<b>p.Q61P</b>
<b>NRAS</b>	NM_002524	583	c.182A>T	<b>p.Q61L</b>
<b>NRAS</b>	NM_002524	584	c.182A>G	<b>p.Q61R</b>
<b>NRAS</b>	NM_002524	585	c.183A>T	<b>p.Q61H</b>
<b>NRAS</b>	NM_002524	586	c.183A>C	<b>p.Q61H</b>
<b>NRAS</b>	NM_002524	587	c.183A>G	<b>p.Q61Q</b>
<b>NRAS</b>	NM_002524	589	c.193A>T	<b>p.S65C</b>
<b>NRAS</b>	NM_002524	27174	c.436G>A	<b>p.A146T</b>
<b>PDGFRA</b>	NM_006206	12396	c.2524G>T	<b>p.D842Y</b>
<b>PDGFRA</b>	NM_006206	12397	c.2524_2526GAC>TAT	<b>p.D842Y</b>
<b>PDGFRA</b>	NM_006206	12398	c.2524_2525GA>AT	<b>p.D842I</b>
<b>PDGFRA</b>	NM_006206	12399	c.2536G>T	<b>p.D846Y</b>
<b>PDGFRA</b>	NM_006206	12400	c.2527_2538del12	<b>p.I843_D846del</b>
<b>PDGFRA</b>	NM_006206	12401	c.2524_2532del9	<b>p.D842_M844del</b>
<b>PDGFRA</b>	NM_006206	12402	c.2530_2541del12	<b>p.M844_S847del</b>
<b>PDGFRA</b>	NM_006206	12405	c.2521_2526delAGAGAC	<b>p.R841_D842del</b>
<b>PDGFRA</b>	NM_006206	12406	c.2524_2526delGAC	<b>p.D842del</b>
<b>PDGFRA</b>	NM_006206	12407	c.2528_2539del12	<b>p.I843_S847&gt;T</b>
<b>PDGFRA</b>	NM_006206	12408	c.2526_2538>G	<b>p.D842_D846&gt;E</b>
<b>PDGFRA</b>	NM_006206	12411	c.2524_2536>A	<b>p.D842_D846&gt;N</b>
<b>PDGFRA</b>	NM_006206	12417	c.1697_1711del15	<b>p.S566_E571&gt;K</b>
<b>PDGFRA</b>	NM_006206	12418	c.1698_1712del15	<b>p.S566_E571&gt;R</b>
<b>PDGFRA</b>	NM_006206	21973	c.1659_1664delGAGGTA	<b>p.R554_Y555del</b>
<b>PDGFRA</b>	NM_006206	22413	c.2472C>T	<b>p.V824V</b>
<b>PDGFRA</b>	NM_006206	22414	c.1977C>G	<b>p.N659K</b>
<b>PDGFRA</b>	NM_006206	22415	c.1977C>A	<b>p.N659K</b>
<b>PDGFRA</b>	NM_006206	22416	c.1975A>T	<b>p.N659Y</b>
<b>PDGFRA</b>	NM_006206	28053	c.1694_1695insA	<b>p.S566fs*6</b>
<b>PDGFRA</b>	NM_006206	736	c.2525A>T	<b>p.D842V</b>
<b>PDGFRA</b>	NM_006206	737	c.2524_2535del12	<b>p.D842_H845del</b>
<b>PDGFRA</b>	NM_006206	739	c.1682T>A	<b>p.V561D</b>
<b>PDGFRA</b>	NM_006206	741	c.1678_1692del15	<b>p.R560_S564del</b>
<b>PDGFRA</b>	NM_006206	743	c.2021C>T	<b>p.T674I</b>
<b>PDGFRA</b>	NM_006206	96892	c.2526_2537del12	<b>p.I843_D846del</b>
<b>PIK3CA</b>	NM_006218.1	12458	c.1634A>C	<b>p.E545A</b>
<b>PIK3CA</b>	NM_006218.1	12459	c.1637A>G	<b>p.Q546R</b>
<b>PIK3CA</b>	NM_006218.1	12461	c.3062A>G	<b>p.Y1021C</b>
<b>PIK3CA</b>	NM_006218.1	12463	c.3128T>C	<b>p.M1043T</b>
<b>PIK3CA</b>	NM_006218.1	12464	c.3204_3205insA	<b>p.N1068fs*4</b>
<b>PIK3CA</b>	NM_006218.1	12580	c.333G>C	<b>p.K111N</b>
<b>PIK3CA</b>	NM_006218.1	12582	c.1252G>A	<b>p.E418K</b>
<b>PIK3CA</b>	NM_006218.1	12584	c.1357G>A	<b>p.E453K</b>
<b>PIK3CA</b>	NM_006218.1	12590	c.3073A>T	<b>p.T1025S</b>
<b>PIK3CA</b>	NM_006218.1	12591	c.3127A>G	<b>p.M1043V</b>
<b>PIK3CA</b>	NM_006218.1	12592	c.3132T>A	<b>p.N1044K</b>
<b>PIK3CA</b>	NM_006218.1	12597	c.3145G>C	<b>p.G1049R</b>
<b>PIK3CA</b>	NM_006218.1	13570	c.331A>G	<b>p.K111E</b>
<b>PIK3CA</b>	NM_006218.1	13594	c.3068G>A	<b>p.R1023Q</b>

<b>PIK3CA</b>	NM_006218.1	17442	c.1624G>C	<b>p.E542Q</b>
<b>PIK3CA</b>	NM_006218.1	17444	c.3061T>C	<b>p.Y1021H</b>
<b>PIK3CA</b>	NM_006218.1	17445	c.3104C>T	<b>p.A1035V</b>
<b>PIK3CA</b>	NM_006218.1	17449	c.3207A>G	<b>p.*1069_*1069insW</b>
<b>PIK3CA</b>	NM_006218.1	21451	c.3075C>T	<b>KDN*</b>
<b>PIK3CA</b>	NM_006218.1	21462	c.971C>T	<b>p.T1025T</b>
<b>PIK3CA</b>	NM_006218.1	22540	c.1031T>G	<b>p.T324I</b>
<b>PIK3CA</b>	NM_006218.1	24712	c.1638G>T	<b>p.V344G</b>
<b>PIK3CA</b>	NM_006218.1	24714	c.3141T>G	<b>p.Q546H</b>
<b>PIK3CA</b>	NM_006218.1	249872	c.1631C>A	<b>p.H1047Q</b>
<b>PIK3CA</b>	NM_006218.1	249908	c.3207+29T>C	<b>p.T544N</b>
<b>PIK3CA</b>	NM_006218.1	25041	c.1637A>T	<b>p.?</b>
<b>PIK3CA</b>	NM_006218.1	25085	c.3120G>A	<b>p.Q546L</b>
<b>PIK3CA</b>	NM_006218.1	25086	c.3133G>A	<b>p.M1040I</b>
<b>PIK3CA</b>	NM_006218.1	27133	c.1633G>C	<b>p.D1045N</b>
<b>PIK3CA</b>	NM_006218.1	27134	c.3130A>G	<b>p.E545Q</b>
<b>PIK3CA</b>	NM_006218.1	27155	c.1634A>T	<b>p.N1044D</b>
<b>PIK3CA</b>	NM_006218.1	27156	c.3137C>A	<b>p.E545V</b>
<b>PIK3CA</b>	NM_006218.1	27158	c.3146G>C	<b>p.A1046E</b>
<b>PIK3CA</b>	NM_006218.1	27273	c.3136G>A	<b>p.G1049A</b>
<b>PIK3CA</b>	NM_006218.1	27374	c.1635G>C	<b>p.A1046T</b>
<b>PIK3CA</b>	NM_006218.1	27502	c.241G>A	<b>p.E545D</b>
<b>PIK3CA</b>	NM_006218.1	27505	c.333G>T	<b>p.E81K</b>
<b>PIK3CA</b>	NM_006218.1	28938	c.3059C>T	<b>p.K111N</b>
<b>PIK3CA</b>	NM_006218.1	29110	c.3115T>C	<b>p.A1020V</b>
<b>PIK3CA</b>	NM_006218.1	29313	c.3129G>A	<b>p.F1039L</b>
<b>PIK3CA</b>	NM_006218.1	36285	c.3074C>T	<b>p.M1043I</b>
<b>PIK3CA</b>	NM_006218.1	36286	c.3085G>C	<b>p.T1025I</b>
<b>PIK3CA</b>	NM_006218.1	36289	c.3143A>G	<b>p.D1029H</b>
<b>PIK3CA</b>	NM_006218.1	6147	c.1636C>G	<b>p.H1048R</b>
<b>PIK3CA</b>	NM_006218.1	746	c.263G>A	<b>p.Q546E</b>
<b>PIK3CA</b>	NM_006218.1	754	c.1035T>A	<b>p.R88Q</b>
<b>PIK3CA</b>	NM_006218.1	757	c.1258T>C	<b>p.N345K</b>
<b>PIK3CA</b>	NM_006218.1	759	c.1616C>G	<b>p.C420R</b>
<b>PIK3CA</b>	NM_006218.1	760	c.1624G>A	<b>p.P539R</b>
<b>PIK3CA</b>	NM_006218.1	762	c.1625A>T	<b>p.E542K</b>
<b>PIK3CA</b>	NM_006218.1	763	c.1633G>A	<b>p.E542V</b>
<b>PIK3CA</b>	NM_006218.1	764	c.1634A>G	<b>p.E545K</b>
<b>PIK3CA</b>	NM_006218.1	765	c.1635G>T	<b>p.E545G</b>
<b>PIK3CA</b>	NM_006218.1	766	c.1636C>A	<b>p.E545D</b>
<b>PIK3CA</b>	NM_006218.1	767	c.1637A>C	<b>p.Q546K</b>
<b>PIK3CA</b>	NM_006218.1	769	c.2702G>T	<b>p.Q546P</b>
<b>PIK3CA</b>	NM_006218.1	770	c.2725T>C	<b>p.C901F</b>
<b>PIK3CA</b>	NM_006218.1	771	c.3073A>G	<b>p.F909L</b>
<b>PIK3CA</b>	NM_006218.1	772	c.3074C>A	<b>p.T1025A</b>
<b>PIK3CA</b>	NM_006218.1	773	c.3129G>T	<b>p.T1025N</b>
<b>PIK3CA</b>	NM_006218.1	774	c.3139C>T	<b>p.M1043I</b>
<b>PIK3CA</b>	NM_006218.1	775	c.3140A>G	<b>p.H1047Y</b>
<b>PIK3CA</b>	NM_006218.1	776	c.3140A>T	<b>p.H1047R</b>
<b>PIK3CA</b>	NM_006218.1	777	c.3145G>A	<b>p.H1047L</b>
<b>PIK3CA</b>	NM_006218.1	778	c.2102A>C	<b>p.G1049S</b>
<b>PIK3CA</b>	NM_006218.1	94984	c.3129G>C	<b>p.H701P</b>
<b>PIK3CA</b>	NM_006218.1	125368	c.344G>T	<b>p.M1043I</b>
<b>PIK3CA</b>	NM_006218.1	12579	c.178C>A	<b>p.R115L</b>
<b>PIK3CA</b>	NM_006218.1	12589	c.2727C>G	<b>p.Q60K</b>
				<b>p.F909L</b>



<b>PIK3CA</b>	NM_006218.1	14052	c.332A>G	<b>p.K111R</b>
<b>PIK3CA</b>	NM_006218.1	163484	c.238G>A	<b>p.E80K</b>
<b>PIK3CA</b>	NM_006218.1	166154	c.337_342delCTCAAT	<b>p.L113_N114delLN</b>
<b>PIK3CA</b>	NM_006218.1	21448	c.337_339delCTC	<b>p.L113del</b>
<b>PIK3CA</b>	NM_006218.1	230020	c.1396C>T	<b>p.P466S</b>
<b>PIK3CA</b>	NM_006218.1	24710	c.325_327delGAA	<b>p.E109del</b>
<b>PIK3CA</b>	NM_006218.1	24711	c.335T>A	<b>p.I112N</b>
<b>PIK3CA</b>	NM_006218.1	27490	c.333_335delGAT	<b>p.K111_I112&gt;N</b>
<b>PIK3CA</b>	NM_006218.1	27497	c.323G>A	<b>p.R108H</b>
<b>PIK3CA</b>	NM_006218.1	27499	c.321_323delCCG	<b>p.R108del</b>
<b>PIK3CA</b>	NM_006218.1	39166	c.223C>G	<b>p.Q75E</b>
<b>PIK3CA</b>	NM_006218.1	41785	c.1371C>G	<b>p.N457K</b>
<b>PIK3CA</b>	NM_006218.1	51258	c.1221C>G	<b>p.C407W</b>
<b>PIK3CA</b>	NM_006218.1	51259	c.341_342insCCTCAA	<b>p.N114_R115insLN</b>
<b>PIK3CA</b>	NM_006218.1	6145	c.328G>A	<b>p.E110K</b>
<b>PIK3CA</b>	NM_006218.1	6149	c.1214C>T	<b>p.S405F</b>
<b>PIK3CA</b>	NM_006218.1	6150	c.1352_1366del15	<b>p.G451_L456&gt;V</b>
<b>PIK3CA</b>	NM_006218.1	749	c.323G>C	<b>p.R108P</b>
<b>PIK3CA</b>	NM_006218.1	750	c.332_334delAGA	<b>p.K111del</b>
<b>PIK3CA</b>	NM_006218.1	758	c.1357G>C	<b>p.E453Q</b>
<b>PIK3CA</b>	NM_006218.1	86045	c.1358A>C	<b>p.E453A</b>
<b>PIK3CA</b>	NM_006218.1	86949	c.1404+10T>G	<b>p.?</b>
<b>PIK3CA</b>	NM_006218.1	86950	c.1404+2_1404+3insT	<b>p.?</b>
<b>PIK3CA</b>	NM_006218.1	87210	c.1252-14C>A	<b>p.?</b>
<b>PIK3CA_E</b>				
<b>NST000002</b>	ENST00000263967	125370	c.1633G>A	<b>p.E545K</b>
<b>63967</b>				
<b>PIK3CA_E</b>				
<b>NST000002</b>	ENST00000263967	94985	c.3129G>C	<b>p.M1043I</b>
<b>63967</b>				
<b>PIK3CA_E</b>				
<b>NST000002</b>	ENST00000263967	94986	c.3140A>G	<b>p.H1047R</b>
<b>63967</b>				
<b>PIK3CA_E</b>				
<b>NST000002</b>	ENST00000263967	94987	c.3140A>T	<b>p.H1047L</b>
<b>63967</b>				
<b>PTEN</b>	NM_000314.4	13135	c.323T>G	<b>p.L108R</b>
<b>PTEN</b>	NM_000314.4	133713	c.780_780delA	<b>p.K260fs*6</b>
<b>PTEN</b>	NM_000314.4	13452	c.863delA	<b>p.E288fs*3</b>
<b>PTEN</b>	NM_000314.4	13981	c.752G>A	<b>p.G251D</b>
<b>PTEN</b>	NM_000314.4	14087	c.165_209del45	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	17564	c.766G>A	<b>p.E256K</b>
<b>PTEN</b>	NM_000314.4	18663	c.385G>T	<b>p.G129*</b>
<b>PTEN</b>	NM_000314.4	19564	c.1026+1G>T	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	23626	c.962_963insA	<b>p.N323fs*2</b>
<b>PTEN</b>	NM_000314.4	23643	c.315T>G	<b>p.C105W</b>
<b>PTEN</b>	NM_000314.4	23644	c.743C>G	<b>p.P248?</b>
<b>PTEN</b>	NM_000314.4	23657	c.1015C>T	<b>p.P339S</b>
<b>PTEN</b>	NM_000314.4	26404	c.723_724insT	<b>p.E242fs*1</b>
<b>PTEN</b>	NM_000314.4	28884	c.377C>A	<b>p.A126D</b>
<b>PTEN</b>	NM_000314.4	28897	c.520T>G	<b>p.Y174D</b>
<b>PTEN</b>	NM_000314.4	28906	c.871G>T	<b>p.E291*</b>
<b>PTEN</b>	NM_000314.4	28914	c.878delG	<b>p.G293fs*14</b>
<b>PTEN</b>	NM_000314.4	30622	c.795delA	<b>p.K267fs*9</b>
<b>PTEN</b>	NM_000314.4	33702	c.530A>G	<b>p.Y177C</b>
<b>PTEN</b>	NM_000314.4	39615	c.950_953delTACT	<b>p.L318fs*2</b>

<b>PTEN</b>	NM_000314.4	41768	c.179_179delA	<b>p.K60fs*39</b>
<b>PTEN</b>	NM_000314.4	43075	c.787A>T	<b>p.K263*</b>
<b>PTEN</b>	NM_000314.4	43077	c.203A>G	<b>p.Y68C</b>
<b>PTEN</b>	NM_000314.4	43098	c.969delT	<b>p.N323fs*21</b>
<b>PTEN</b>	NM_000314.4	4885	c.1011_1014delTTCT	<b>p.F337fs*6</b>
<b>PTEN</b>	NM_000314.4	4889	c.202_203delTA	<b>p.Y68fs*5</b>
<b>PTEN</b>	NM_000314.4	4894	c.952_955delCTTA	<b>p.L318fs*2</b>
<b>PTEN</b>	NM_000314.4	4896	c.956_959delCTTT	<b>p.T319fs*24</b>
<b>PTEN</b>	NM_000314.4	4898	c.950_953delTACT	<b>p.V317fs*3</b>
<b>PTEN</b>	NM_000314.4	4899	c.951_954delACTT	<b>p.V317fs*3</b>
<b>PTEN</b>	NM_000314.4	4903	c.954_957delTACT	<b>p.L318fs*2</b>
<b>PTEN</b>	NM_000314.4	4907	c.364_368delATTCA	<b>p.I122fs*2</b>
<b>PTEN</b>	NM_000314.4	4908	c.760_764delAAAGT	<b>p.K254fs*42</b>
<b>PTEN</b>	NM_000314.4	4912	c.750_751delTG	<b>p.C250fs*2</b>
<b>PTEN</b>	NM_000314.4	4916	c.953_956delTTAC	<b>p.L318fs*2</b>
<b>PTEN</b>	NM_000314.4	4929	c.17_18delAA	<b>p.K6fs*4</b>
<b>PTEN</b>	NM_000314.4	4931	c.881_885delGTCTA	<b>p.S294fs*2</b>
<b>PTEN</b>	NM_000314.4	4932	c.987_990delTAAA	<b>p.N329fs*14</b>
<b>PTEN</b>	NM_000314.4	4937	c.16_17delAA	<b>p.K6fs*4</b>
<b>PTEN</b>	NM_000314.4	4942	c.187_188delAA	<b>p.N63fs*10</b>
<b>PTEN</b>	NM_000314.4	4943	c.950_954delTACTT	<b>p.V317fs*6</b>
<b>PTEN</b>	NM_000314.4	4958	c.955_958delACTT	<b>p.T319fs*1</b>
<b>PTEN</b>	NM_000314.4	4969	c.526_528delTAT	<b>p.Y176del</b>
<b>PTEN</b>	NM_000314.4	4976	c.49_51delCAA	<b>p.Q17del</b>
<b>PTEN</b>	NM_000314.4	4982	c.955_957delACT	<b>p.T319del</b>
<b>PTEN</b>	NM_000314.4	4986	c.741_742insA	<b>p.P248fs*5</b>
<b>PTEN</b>	NM_000314.4	4990	c.968_969insA	<b>p.N323fs*2</b>
<b>PTEN</b>	NM_000314.4	4994	c.963_964insA	<b>p.T321fs*3</b>
<b>PTEN</b>	NM_000314.4	5000	c.170_171insT	<b>p.L57fs*6</b>
<b>PTEN</b>	NM_000314.4	5008	c.955_956insA	<b>p.T319fs*6</b>
<b>PTEN</b>	NM_000314.4	5025	c.742_743insC	<b>p.P248fs*5</b>
<b>PTEN</b>	NM_000314.4	5026	c.742_743insA	<b>p.P248fs*5</b>
<b>PTEN</b>	NM_000314.4	5032	c.394G>A	<b>p.G132S</b>
<b>PTEN</b>	NM_000314.4	5033	c.389G>A	<b>p.R130Q</b>
<b>PTEN</b>	NM_000314.4	5036	c.202T>C	<b>p.Y68H</b>
<b>PTEN</b>	NM_000314.4	5037	c.37A>G	<b>p.K13E</b>
<b>PTEN</b>	NM_000314.4	5039	c.518G>A	<b>p.R173H</b>
<b>PTEN</b>	NM_000314.4	5041	c.377C>T	<b>p.A126V</b>
<b>PTEN</b>	NM_000314.4	5042	c.182A>G	<b>p.H61R</b>
<b>PTEN</b>	NM_000314.4	5044	c.397G>A	<b>p.V133I</b>
<b>PTEN</b>	NM_000314.4	5045	c.509G>A	<b>p.S170N</b>
<b>PTEN</b>	NM_000314.4	5048	c.196A>G	<b>p.K66E</b>
<b>PTEN</b>	NM_000314.4	5049	c.29G>A	<b>p.S10N</b>
<b>PTEN</b>	NM_000314.4	5051	c.376G>A	<b>p.A126T</b>
<b>PTEN</b>	NM_000314.4	5052	c.499A>G	<b>p.T167A</b>
<b>PTEN</b>	NM_000314.4	5078	c.367C>T	<b>p.H123Y</b>
<b>PTEN</b>	NM_000314.4	5082	c.373A>G	<b>p.K125E</b>
<b>PTEN</b>	NM_000314.4	5089	c.517C>T	<b>p.R173C</b>
<b>PTEN</b>	NM_000314.4	5091	c.493G>A	<b>p.G165R</b>
<b>PTEN</b>	NM_000314.4	5092	c.385G>A	<b>p.G129R</b>
<b>PTEN</b>	NM_000314.4	5093	c.992A>G	<b>p.D331G</b>
<b>PTEN</b>	NM_000314.4	5101	c.40A>G	<b>p.R14G</b>
<b>PTEN</b>	NM_000314.4	5106	c.335T>C	<b>p.L112P</b>
<b>PTEN</b>	NM_000314.4	5111	c.737C>T	<b>p.P246L</b>
<b>PTEN</b>	NM_000314.4	5113	c.314G>A	<b>p.C105Y</b>
<b>PTEN</b>	NM_000314.4	5114	c.494G>A	<b>p.G165E</b>

<b>PTEN</b>	NM_000314.4	5121	c.331T>C	<b>p.W111R</b>
<b>PTEN</b>	NM_000314.4	5123	c.395G>A	<b>p.G132D</b>
<b>PTEN</b>	NM_000314.4	5125	c.755A>G	<b>p.D252G</b>
<b>PTEN</b>	NM_000314.4	5127	c.170T>C	<b>p.L57S</b>
<b>PTEN</b>	NM_000314.4	5133	c.47A>G	<b>p.Y16C</b>
<b>PTEN</b>	NM_000314.4	5143	c.380G>A	<b>p.G127E</b>
<b>PTEN</b>	NM_000314.4	5149	c.511C>T	<b>p.Q171*</b>
<b>PTEN</b>	NM_000314.4	5150	c.640C>T	<b>p.Q214*</b>
<b>PTEN</b>	NM_000314.4	5151	c.1003C>T	<b>p.R335*</b>
<b>PTEN</b>	NM_000314.4	5152	c.388C>T	<b>p.R130*</b>
<b>PTEN</b>	NM_000314.4	5153	c.49C>T	<b>p.Q17*</b>
<b>PTEN</b>	NM_000314.4	5156	c.892C>T	<b>p.Q298*</b>
<b>PTEN</b>	NM_000314.4	5157	c.332G>A	<b>p.W111*</b>
<b>PTEN</b>	NM_000314.4	5159	c.733C>T	<b>p.Q245*</b>
<b>PTEN</b>	NM_000314.4	5160	c.781C>T	<b>p.Q261*</b>
<b>PTEN</b>	NM_000314.4	5161	c.328C>T	<b>p.Q110*</b>
<b>PTEN</b>	NM_000314.4	5191	c.198G>T	<b>p.K66N</b>
<b>PTEN</b>	NM_000314.4	5193	c.384G>T	<b>p.K128N</b>
<b>PTEN</b>	NM_000314.4	5199	c.334C>G	<b>p.L112V</b>
<b>PTEN</b>	NM_000314.4	5200	c.511C>G	<b>p.Q171E</b>
<b>PTEN</b>	NM_000314.4	5211	c.376G>C	<b>p.A126P</b>
<b>PTEN</b>	NM_000314.4	5212	c.319G>T	<b>p.D107Y</b>
<b>PTEN</b>	NM_000314.4	5214	c.361G>C	<b>p.A121P</b>
<b>PTEN</b>	NM_000314.4	5216	c.389G>T	<b>p.R130L</b>
<b>PTEN</b>	NM_000314.4	5218	c.509G>T	<b>p.S170I</b>
<b>PTEN</b>	NM_000314.4	5219	c.388C>G	<b>p.R130G</b>
<b>PTEN</b>	NM_000314.4	5220	c.751G>T	<b>p.G251C</b>
<b>PTEN</b>	NM_000314.4	5224	c.370T>A	<b>p.C124S</b>
<b>PTEN</b>	NM_000314.4	5230	c.758T>A	<b>p.I253N</b>
<b>PTEN</b>	NM_000314.4	5232	c.44G>T	<b>p.R15I</b>
<b>PTEN</b>	NM_000314.4	5244	c.512A>C	<b>p.Q171P</b>
<b>PTEN</b>	NM_000314.4	5246	c.754G>T	<b>p.D252Y</b>
<b>PTEN</b>	NM_000314.4	5253	c.170T>G	<b>p.L57W</b>
<b>PTEN</b>	NM_000314.4	5255	c.1021T>G	<b>p.F341V</b>
<b>PTEN</b>	NM_000314.4	5257	c.166T>G	<b>p.F56V</b>
<b>PTEN</b>	NM_000314.4	5266	c.314G>T	<b>p.C105F</b>
<b>PTEN</b>	NM_000314.4	5270	c.45A>T	<b>p.R15S</b>
<b>PTEN</b>	NM_000314.4	5271	c.371G>C	<b>p.C124S</b>
<b>PTEN</b>	NM_000314.4	5273	c.362C>A	<b>p.A121E</b>
<b>PTEN</b>	NM_000314.4	5277	c.389G>C	<b>p.R130P</b>
<b>PTEN</b>	NM_000314.4	5290	c.1008C>G	<b>p.Y336*</b>
<b>PTEN</b>	NM_000314.4	5292	c.703G>T	<b>p.E235*</b>
<b>PTEN</b>	NM_000314.4	5296	c.195C>A	<b>p.Y65*</b>
<b>PTEN</b>	NM_000314.4	5298	c.19G>T	<b>p.E7*</b>
<b>PTEN</b>	NM_000314.4	5313	c.176C>A	<b>p.S59*</b>
<b>PTEN</b>	NM_000314.4	5314	c.862G>T	<b>p.E288*</b>
<b>PTEN</b>	NM_000314.4	5317	c.195C>G	<b>p.Y65*</b>
<b>PTEN</b>	NM_000314.4	53243	c.964_964delA	<b>p.N323fs*21</b>
<b>PTEN</b>	NM_000314.4	5775	c.1002_1003CC>TT	<b>p.R335*</b>
<b>PTEN</b>	NM_000314.4	5801	c.968delA	<b>p.N323fs*21</b>
<b>PTEN</b>	NM_000314.4	5811	c.188delA	<b>p.N63fs*36</b>
<b>PTEN</b>	NM_000314.4	5812	c.391delA	<b>p.T131fs*3</b>
<b>PTEN</b>	NM_000314.4	5814	c.993delC	<b>p.D331fs*13</b>
<b>PTEN</b>	NM_000314.4	5816	c.867delA	<b>p.V290fs*1</b>
<b>PTEN</b>	NM_000314.4	5817	c.389delG	<b>p.R130fs*4</b>
<b>PTEN</b>	NM_000314.4	5822	c.738delG	<b>p.P246fs*10</b>

<b>PTEN</b>	NM_000314.4	5823	c.963delA	<b>p.T321fs*23</b>
<b>PTEN</b>	NM_000314.4	5824	c.370delT	<b>p.C124fs*10</b>
<b>PTEN</b>	NM_000314.4	5825	c.517delC	<b>p.R173fs*10</b>
<b>PTEN</b>	NM_000314.4	5840	c.321_326delTCTGA	<b>p.L108_D109del</b>
<b>PTEN</b>	NM_000314.4	5841	c.348delC	<b>p.D116fs*18</b>
<b>PTEN</b>	NM_000314.4	5842	c.357delT	<b>p.V119fs*15</b>
<b>PTEN</b>	NM_000314.4	5844	c.383_391del9	<b>p.K128_R130del</b>
<b>PTEN</b>	NM_000314.4	5869	c.1009delT	<b>p.F337fs*7</b>
<b>PTEN</b>	NM_000314.4	5878	c.46_47insT	<b>p.Y16fs*28</b>
<b>PTEN</b>	NM_000314.4	5885	c.353_354insA	<b>p.H118fs*8</b>
<b>PTEN</b>	NM_000314.4	5887	c.711_712insAA	<b>p.K237fs*19</b>
<b>PTEN</b>	NM_000314.4	5888	c.723_724insTT	<b>p.E242fs*15</b>
<b>PTEN</b>	NM_000314.4	5907	c.493-12delT	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5915	c.1-9C>G	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5916	c.209+5G>A	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5957	c.1026+1G>T	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5958	c.165-1G>T	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5959	c.165-2A>C	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5960	c.165-1G>A	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5961	c.493-1G>A	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5974	c.209+1G>C	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5975	c.209+1delGT	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5976	c.209+1G>T	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	5979	c.209+1delGTAA	<b>p.?</b>
<b>PTEN</b>	NM_000314.4	6206	c.314G>C	<b>p.C105S</b>
<b>PTEN</b>	NM_000314.4	87314	c.797_797delA	<b>p.K267fs*9</b>
<b>PTEN</b>	NM_000314.4	88109	c.724G>T	<b>p.E242*</b>
<b>PTPN11</b>	NM_002834.3	13000	c.226G>A	<b>p.E76K</b>
<b>PTPN11</b>	NM_002834.3	13010	c.178G>C	<b>p.G60R</b>
<b>PTPN11</b>	NM_002834.3	13011	c.181G>T	<b>p.D61Y</b>
<b>PTPN11</b>	NM_002834.3	13012	c.181G>A	<b>p.D61N</b>
<b>PTPN11</b>	NM_002834.3	13013	c.205G>A	<b>p.E69K</b>
<b>PTPN11</b>	NM_002834.3	13014	c.214G>A	<b>p.A72T</b>
<b>PTPN11</b>	NM_002834.3	13015	c.215C>T	<b>p.A72V</b>
<b>PTPN11</b>	NM_002834.3	13016	c.226G>C	<b>p.E76Q</b>
<b>PTPN11</b>	NM_002834.3	13017	c.227A>G	<b>p.E76G</b>
<b>PTPN11</b>	NM_002834.3	13019	c.218C>T	<b>p.T73I</b>
<b>PTPN11</b>	NM_002834.3	13020	c.1504T>C	<b>p.S502P</b>
<b>PTPN11</b>	NM_002834.3	13021	c.1508G>A	<b>p.G503E</b>
<b>PTPN11</b>	NM_002834.3	13022	c.182A>T	<b>p.D61V</b>
<b>PTPN11</b>	NM_002834.3	13023	c.1505C>T	<b>p.S502L</b>
<b>PTPN11</b>	NM_002834.3	13025	c.227A>T	<b>p.E76V</b>
<b>PTPN11</b>	NM_002834.3	13026	c.227A>C	<b>p.E76A</b>
<b>PTPN11</b>	NM_002834.3	13027	c.1508G>C	<b>p.G503A</b>
<b>PTPN11</b>	NM_002834.3	13028	c.179G>T	<b>p.G60V</b>
<b>PTPN11</b>	NM_002834.3	13029	c.213T>A	<b>p.F71L</b>
<b>PTPN11</b>	NM_002834.3	13031	c.1528C>A	<b>p.Q510K</b>
<b>PTPN11</b>	NM_002834.3	13032	c.172A>T	<b>p.N58Y</b>
<b>PTPN11</b>	NM_002834.3	13034	c.1472C>T	<b>p.P491L</b>
<b>PTPN11</b>	NM_002834.3	13035	c.215C>A	<b>p.A72D</b>
<b>PTPN11</b>	NM_002834.3	13039	c.211T>C	<b>p.F71L</b>
<b>PTPN11</b>	NM_002834.3	13993	c.155C>G	<b>p.T52S</b>
<b>PTPN11</b>	NM_002834.3	14269	c.182A>G	<b>p.D61G</b>
<b>PTPN11</b>	NM_002834.3	14271	c.1508G>T	<b>p.G503V</b>
<b>PTPN11</b>	NM_002834.3	20900	c.181G>C	<b>p.D61H</b>
<b>RB1</b>	NM_000321	1042	c.2107-2A>G	<b>p.?</b>

<b>RB1</b>	NM_000321	13117	c.2053C>T	<b>p.Q685*</b>
<b>RB1</b>	NM_000321	28816	c.940-2A>T	<b>p.?</b>
<b>RB1</b>	NM_000321	861	c.1981C>T	<b>p.R661W</b>
<b>RB1</b>	NM_000321	868	c.2242G>T	<b>p.E748*</b>
<b>RB1</b>	NM_000321	869	c.1980_1983delCCGG	<b>p.L660fs*2</b>
<b>RB1</b>	NM_000321	870	c.2028_2040del13	<b>p.L676fs*16</b>
<b>RB1</b>	NM_000321	879	c.1072C>T	<b>p.R358*</b>
<b>RB1</b>	NM_000321	883	c.2117G>T	<b>p.C706F</b>
<b>RB1</b>	NM_000321	887	c.1654C>T	<b>p.R552*</b>
<b>RB1</b>	NM_000321	888	c.1666C>T	<b>p.R556*</b>
<b>RB1</b>	NM_000321	890	c.409G>T	<b>p.E137*</b>
<b>RB1</b>	NM_000321	891	c.958C>T	<b>p.R320*</b>
<b>RB1</b>	NM_000321	892	c.1735C>T	<b>p.R579*</b>
<b>RB1</b>	NM_000321	895	c.1363C>T	<b>p.R455*</b>
<b>RB1</b>	NM_000321	915	c.596T>A	<b>p.L199*</b>
<b>RB1</b>	NM_000321	916	c.2261T>G	<b>p.V754G</b>
<b>RB1</b>	NM_000321	940	c.2143A>T	<b>p.K715*</b>
<b>RET</b>	NM_020975	133167	c.2647G>T	<b>p.A883S</b>
<b>RET</b>	NM_020975	21338	c.2304G>C	<b>p.E768D</b>
<b>RET</b>	NM_020975	27040	c.1886_1891delITGTGCG	<b>p.L629_D631&gt;H</b>
<b>RET</b>	NM_020975	29803	c.1852T>C	<b>p.C618R</b>
<b>RET</b>	NM_020975	29804	c.1858T>C	<b>p.C620R</b>
<b>RET</b>	NM_020975	964	c.1888T>C	<b>p.C630R</b>
<b>RET</b>	NM_020975	965	c.2753T>C	<b>p.M918T</b>
<b>RET</b>	NM_020975	966	c.1900T>C	<b>p.C634R</b>
<b>RET</b>	NM_020975	968	c.1894_1899delGAGCTG	<b>p.E632_L633del</b>
<b>RET</b>	NM_020975	974	c.1901G>A	<b>p.C634Y</b>
<b>RET</b>	NM_020975	975	c.1902C>G	<b>p.C634W</b>
<b>RET</b>	NM_020975	977	c.2647_2648GC>TT	<b>p.A883F</b>
<b>RET</b>	NM_020975	978	c.1892A>G	<b>p.D631G</b>
<b>RET</b>	NM_020975	981	c.2646_2648AGC>TTT	<b>p.A883F</b>
<b>RET</b>	NM_020975	982	c.1895_1897delAGC	<b>p.E632_L633&gt;V</b>
<b>RET</b>	NM_020975	983	c.1893_1898delCGAGCT	<b>p.D631_L633&gt;E</b>
<b>RET</b>	NM_020975	984	c.1834_1860del127	<b>p.F612_C620del</b>
<b>SMAD4</b>	NM_005359.3	13115	c.431C>G	<b>p.S144*</b>
<b>SMAD4</b>	NM_005359.3	14057	c.733C>T	<b>p.Q245*</b>
<b>SMAD4</b>	NM_005359.3	14096	c.1333C>T	<b>p.R445*</b>
<b>SMAD4</b>	NM_005359.3	14105	c.1394_1395insT	<b>p.A466fs*28</b>
<b>SMAD4</b>	NM_005359.3	14110	c.989A>C	<b>p.E330A</b>
<b>SMAD4</b>	NM_005359.3	14111	c.1028C>G	<b>p.S343*</b>
<b>SMAD4</b>	NM_005359.3	14113	c.1490G>A	<b>p.R497H</b>
<b>SMAD4</b>	NM_005359.3	14115	c.1569C>G	<b>p.C523W</b>
<b>SMAD4</b>	NM_005359.3	14118	c.502G>T	<b>p.G168*</b>
<b>SMAD4</b>	NM_005359.3	14121	c.1015_1029del15	<b>p.F339_S343del</b>
<b>SMAD4</b>	NM_005359.3	14122	c.1082G>A	<b>p.R361H</b>
<b>SMAD4</b>	NM_005359.3	14124	c.1341_1365del25	<b>p.Q448fs*20</b>
<b>SMAD4</b>	NM_005359.3	14126	c.1519A>C	<b>p.K507Q</b>
<b>SMAD4</b>	NM_005359.3	14129	c.1543A>T	<b>p.R515*</b>
<b>SMAD4</b>	NM_005359.3	14134	c.1576G>T	<b>p.E526*</b>
<b>SMAD4</b>	NM_005359.3	14135	c.1051G>C	<b>p.D351H</b>
<b>SMAD4</b>	NM_005359.3	14140	c.1081C>T	<b>p.R361C</b>
<b>SMAD4</b>	NM_005359.3	14163	c.931C>T	<b>p.Q311*</b>
<b>SMAD4</b>	NM_005359.3	14167	c.955+5G>C	<b>p.?</b>
<b>SMAD4</b>	NM_005359.3	14174	c.1072G>T	<b>p.G358*</b>
<b>SMAD4</b>	NM_005359.3	14175	c.1236C>G	<b>p.Y412*</b>
<b>SMAD4</b>	NM_005359.3	14177	c.1546_1553delCAGAGCAT	<b>p.S517fs*7</b>

<b>SMAD4</b>	NM_005359.3	14215	c.353C>T	<b>p.A118V</b>
<b>SMAD4</b>	NM_005359.3	14216	c.363_364insA	<b>p.C123fs*2</b>
<b>SMAD4</b>	NM_005359.3	14217	c.776_777delCT	<b>p.T259fs*4</b>
<b>SMAD4</b>	NM_005359.3	14220	c.1058A>G	<b>p.Y353C</b>
<b>SMAD4</b>	NM_005359.3	14221	c.1496G>A	<b>p.C499Y</b>
<b>SMAD4</b>	NM_005359.3	14223	c.1229_1230insCA	<b>p.Q410fs*6</b>
<b>SMAD4</b>	NM_005359.3	14232	c.1064A>G	<b>p.D355G</b>
<b>SMAD4</b>	NM_005359.3	14249	c.1156G>C	<b>p.G386R</b>
<b>SMAD4</b>	NM_005359.3	25274	c.366_367insA	<b>p.C123fs*2</b>
<b>SMARCB1</b>	NM_003073.2	1002	c.118C>T	<b>p.R40*</b>
<b>SMARCB1</b>	NM_003073.2	1057	c.1148delC	<b>p.P383fs</b>
<b>SMARCB1</b>	NM_003073.2	1060	c.1144delG	<b>p.A382fs*4</b>
<b>SMARCB1</b>	NM_003073.2	1090	c.1119-41G>A	<b>p.?</b>
<b>SMARCB1</b>	NM_003073.2	24595	c.157C>T	<b>p.R53*</b>
<b>SMARCB1</b>	NM_003073.2	29382	c.1143delG	<b>p.A382fs*5</b>
<b>SMARCB1</b>	NM_003073.2	29495	c.1145delC	<b>p.P383fs*4</b>
<b>SMARCB1</b>	NM_003073.2	989	c.1130G>A	<b>p.R377H</b>
<b>SMARCB1</b>	NM_003073.2	991	c.141C>A	<b>p.Y47*</b>
<b>SMARCB1</b>	NM_003073.2	992	c.472C>T	<b>p.R158*</b>
<b>SMARCB1</b>	NM_003073.2	993	c.601C>T	<b>p.R201*</b>
<b>SMO</b>	NM_005631.3	13145	c.595C>T	<b>p.R199W</b>
<b>SMO</b>	NM_005631.3	13146	c.1604G>T	<b>p.W535L</b>
<b>SMO</b>	NM_005631.3	13147	c.970G>A	<b>p.A324T</b>
<b>SMO</b>	NM_005631.3	13148	c.1210G>A	<b>p.V404M</b>
<b>SMO</b>	NM_005631.3	13150	c.1918A>G	<b>p.T640A</b>
<b>SRC</b>	NM_005417	1369	c.1591C>T	<b>p.Q531*</b>
<b>STK11</b>	NM_000455	12924	c.842delC	<b>p.P281fs*6</b>
<b>STK11</b>	NM_000455	12925	c.109C>T	<b>p.Q37*</b>
<b>STK11</b>	NM_000455	18652	c.996G>A	<b>p.W332*</b>
<b>STK11</b>	NM_000455	20857	c.787_790delTTGT	<b>p.F264fs*22</b>
<b>STK11</b>	NM_000455	20871	c.837delC	<b>p.P281fs*6</b>
<b>STK11</b>	NM_000455	20874	c.180C>G	<b>p.Y60*</b>
<b>STK11</b>	NM_000455	20943	c.508C>T	<b>p.Q170*</b>
<b>STK11</b>	NM_000455	20944	c.580G>T	<b>p.D194Y</b>
<b>STK11</b>	NM_000455	20957	c.581A>T	<b>p.D194V</b>
<b>STK11</b>	NM_000455	21212	c.169delG	<b>p.E57fs*7</b>
<b>STK11</b>	NM_000455	21354	c.511G>A	<b>p.G171S</b>
<b>STK11</b>	NM_000455	21355	c.842C>T	<b>p.P281L</b>
<b>STK11</b>	NM_000455	21359	c.595G>A	<b>p.E199K</b>
<b>STK11</b>	NM_000455	21360	c.1062C>G	<b>p.F354L</b>
<b>STK11</b>	NM_000455	21378	c.96C>G	<b>p.T32T</b>
<b>STK11</b>	NM_000455	25229	c.595G>T	<b>p.E199*</b>
<b>STK11</b>	NM_000455	25847	c.580G>A	<b>p.D194N</b>
<b>STK11</b>	NM_000455	25851	c.842_843insC	<b>p.L282fs*3</b>
<b>STK11</b>	NM_000455	27316	c.475C>T	<b>p.Q159*</b>
<b>STK11</b>	NM_000455	27322	c.180delC	<b>p.Y60fs*1</b>
<b>STK11</b>	NM_000455	28298	c.841_842>T	<b>p.P281fs*6</b>
<b>STK11</b>	NM_000455	29005	c.816C>T	<b>p.Y272Y</b>
<b>STK11</b>	NM_000455	48786	c.587G>T	<b>p.G196V</b>
<b>TP53</b>	NM_000546	10645	c.527G>T	<b>p.C176F</b>
<b>TP53</b>	NM_000546	10646	c.725G>A	<b>p.C242Y</b>
<b>TP53</b>	NM_000546	10647	c.404G>T	<b>p.C135F</b>
<b>TP53</b>	NM_000546	10648	c.524G>A	<b>p.R175H</b>
<b>TP53</b>	NM_000546	10650	c.529C>T	<b>p.P177S</b>
<b>TP53</b>	NM_000546	10651	c.530C>G	<b>p.P177R</b>
<b>TP53</b>	NM_000546	10654	c.637C>T	<b>p.R213*</b>

<b>TP53</b>	NM_000546	10656	c.742C>T	<b>p.R248W</b>
<b>TP53</b>	NM_000546	10659	c.817C>T	<b>p.R273C</b>
<b>TP53</b>	NM_000546	10660	c.818G>A	<b>p.R273H</b>
<b>TP53</b>	NM_000546	10662	c.743G>A	<b>p.R248Q</b>
<b>TP53</b>	NM_000546	10663	c.916C>T	<b>p.R306*</b>
<b>TP53</b>	NM_000546	10667	c.646G>A	<b>p.V216M</b>
<b>TP53</b>	NM_000546	10668	c.745A>G	<b>p.R249G</b>
<b>TP53</b>	NM_000546	10670	c.469G>T	<b>p.V157F</b>
<b>TP53</b>	NM_000546	10672	c.577C>T	<b>p.H193Y</b>
<b>TP53</b>	NM_000546	10684	c.403T>C	<b>p.C135R</b>
<b>TP53</b>	NM_000546	10687	c.527G>A	<b>p.C176Y</b>
<b>TP53</b>	NM_000546	10690	c.473G>A	<b>p.R158H</b>
<b>TP53</b>	NM_000546	10701	c.824G>T	<b>p.C275F</b>
<b>TP53</b>	NM_000546	10704	c.844C>T	<b>p.R282W</b>
<b>TP53</b>	NM_000546	10705	c.586C>T	<b>p.R196*</b>
<b>TP53</b>	NM_000546	10706	c.548C>G	<b>p.S183*</b>
<b>TP53</b>	NM_000546	10709	c.722C>G	<b>p.S241C</b>
<b>TP53</b>	NM_000546	10710	c.892G>T	<b>p.E298*</b>
<b>TP53</b>	NM_000546	10714	c.473G>T	<b>p.R158L</b>
<b>TP53</b>	NM_000546	10715	c.695T>A	<b>p.I232N</b>
<b>TP53</b>	NM_000546	10716	c.329G>T	<b>p.R110L</b>
<b>TP53</b>	NM_000546	10718	c.524G>T	<b>p.R175L</b>
<b>TP53</b>	NM_000546	10719	c.811G>A	<b>p.E271K</b>
<b>TP53</b>	NM_000546	10722	c.853G>A	<b>p.E285K</b>
<b>TP53</b>	NM_000546	10724	c.839G>C	<b>p.R280T</b>
<b>TP53</b>	NM_000546	10725	c.701A>G	<b>p.Y234C</b>
<b>TP53</b>	NM_000546	10726	c.856G>A	<b>p.E286K</b>
<b>TP53</b>	NM_000546	10728	c.839G>A	<b>p.R280K</b>
<b>TP53</b>	NM_000546	10731	c.707A>G	<b>p.Y236C</b>
<b>TP53</b>	NM_000546	10733	c.574C>T	<b>p.Q192*</b>
<b>TP53</b>	NM_000546	10735	c.638G>A	<b>p.R213Q</b>
<b>TP53</b>	NM_000546	10738	c.542G>A	<b>p.R181H</b>
<b>TP53</b>	NM_000546	10739	c.481G>A	<b>p.A161T</b>
<b>TP53</b>	NM_000546	10742	c.578A>G	<b>p.H193R</b>
<b>TP53</b>	NM_000546	10743	c.848G>C	<b>p.R283P</b>
<b>TP53</b>	NM_000546	10749	c.830G>T	<b>p.C277F</b>
<b>TP53</b>	NM_000546	10750	c.490A>T	<b>p.K164*</b>
<b>TP53</b>	NM_000546	10756	c.827C>T	<b>p.A276V</b>
<b>TP53</b>	NM_000546	10757	c.738G>C	<b>p.M246I</b>
<b>TP53</b>	NM_000546	10758	c.659A>G	<b>p.Y220C</b>
<b>TP53</b>	NM_000546	10760	c.467G>C	<b>p.R156P</b>
<b>TP53</b>	NM_000546	10762	c.490A>G	<b>p.K164E</b>
<b>TP53</b>	NM_000546	10768	c.535C>T	<b>p.H179Y</b>
<b>TP53</b>	NM_000546	10769	c.820G>T	<b>p.V274F</b>
<b>TP53</b>	NM_000546	10770	c.1045G>T	<b>p.E349*</b>
<b>TP53</b>	NM_000546	10771	c.749C>T	<b>p.P250L</b>
<b>TP53</b>	NM_000546	10777	c.715A>G	<b>p.N239D</b>
<b>TP53</b>	NM_000546	10779	c.818G>T	<b>p.R273L</b>
<b>TP53</b>	NM_000546	10785	c.747G>C	<b>p.R249S</b>
<b>TP53</b>	NM_000546	10788	c.764T>G	<b>p.I255S</b>
<b>TP53</b>	NM_000546	10790	c.455C>T	<b>p.P152L</b>
<b>TP53</b>	NM_000546	10794	c.796G>A	<b>p.G266R</b>
<b>TP53</b>	NM_000546	10801	c.404G>A	<b>p.C135Y</b>
<b>TP53</b>	NM_000546	10804	c.610G>T	<b>p.E204*</b>
<b>TP53</b>	NM_000546	10808	c.488A>G	<b>p.Y163C</b>
<b>TP53</b>	NM_000546	10810	c.725G>T	<b>p.C242F</b>

<b>TP53</b>	NM_000546	10812	c.722C>T	<b>p.S241F</b>
<b>TP53</b>	NM_000546	10813	c.394A>G	<b>p.K132E</b>
<b>TP53</b>	NM_000546	10814	c.832C>G	<b>p.P278A</b>
<b>TP53</b>	NM_000546	10817	c.747G>T	<b>p.R249S</b>
<b>TP53</b>	NM_000546	10834	c.711G>A	<b>p.M237I</b>
<b>TP53</b>	NM_000546	10856	c.880G>T	<b>p.E294*</b>
<b>TP53</b>	NM_000546	10859	c.814G>T	<b>p.V272L</b>
<b>TP53</b>	NM_000546	10862	c.378C>G	<b>p.Y126*</b>
<b>TP53</b>	NM_000546	10863	c.833C>T	<b>p.P278L</b>
<b>TP53</b>	NM_000546	10867	c.797G>A	<b>p.G266E</b>
<b>TP53</b>	NM_000546	10870	c.523C>G	<b>p.R175G</b>
<b>TP53</b>	NM_000546	10883	c.731G>A	<b>p.G244D</b>
<b>TP53</b>	NM_000546	10886	c.310C>T	<b>p.Q104*</b>
<b>TP53</b>	NM_000546	10887	c.833C>G	<b>p.P278R</b>
<b>TP53</b>	NM_000546	10888	c.378C>A	<b>p.Y126*</b>
<b>TP53</b>	NM_000546	10889	c.536A>G	<b>p.H179R</b>
<b>TP53</b>	NM_000546	10891	c.814G>A	<b>p.V272M</b>
<b>TP53</b>	NM_000546	10893	c.824G>A	<b>p.C275Y</b>
<b>TP53</b>	NM_000546	10911	c.847C>T	<b>p.R283C</b>
<b>TP53</b>	NM_000546	10912	c.463A>C	<b>p.T155P</b>
<b>TP53</b>	NM_000546	10931	c.751A>C	<b>p.I251L</b>
<b>TP53</b>	NM_000546	10935	c.722C>A	<b>p.S241Y</b>
<b>TP53</b>	NM_000546	10939	c.832C>T	<b>p.P278S</b>
<b>TP53</b>	NM_000546	10941	c.730G>A	<b>p.G244S</b>
<b>TP53</b>	NM_000546	10943	c.841G>C	<b>p.D281H</b>
<b>TP53</b>	NM_000546	10957	c.733G>C	<b>p.G245R</b>
<b>TP53</b>	NM_000546	10958	c.797G>T	<b>p.G266V</b>
<b>TP53</b>	NM_000546	10991	c.396G>T	<b>p.K132N</b>
<b>TP53</b>	NM_000546	10992	c.844C>G	<b>p.R282G</b>
<b>TP53</b>	NM_000546	10995	c.580C>T	<b>p.L194F</b>
<b>TP53</b>	NM_000546	10996	c.511G>T	<b>p.E171*</b>
<b>TP53</b>	NM_000546	11011	c.794T>C	<b>p.L265P</b>
<b>TP53</b>	NM_000546	11059	c.713G>A	<b>p.C238Y</b>
<b>TP53</b>	NM_000546	11063	c.711G>T	<b>p.M237I</b>
<b>TP53</b>	NM_000546	11066	c.578A>T	<b>p.H193L</b>
<b>TP53</b>	NM_000546	11071	c.1009C>T	<b>p.R337C</b>
<b>TP53</b>	NM_000546	11073	c.1024C>T	<b>p.R342*</b>
<b>TP53</b>	NM_000546	11078	c.1027G>T	<b>p.E343*</b>
<b>TP53</b>	NM_000546	11081	c.733G>T	<b>p.G245C</b>
<b>TP53</b>	NM_000546	11084	c.517G>A	<b>p.V173M</b>
<b>TP53</b>	NM_000546	11087	c.472C>G	<b>p.R158G</b>
<b>TP53</b>	NM_000546	11089	c.584T>C	<b>p.I195T</b>
<b>TP53</b>	NM_000546	11090	c.541C>T	<b>p.R181C</b>
<b>TP53</b>	NM_000546	11114	c.528C>G	<b>p.C176W</b>
<b>TP53</b>	NM_000546	11123	c.838A>G	<b>p.R280G</b>
<b>TP53</b>	NM_000546	11133	c.725G>C	<b>p.C242S</b>
<b>TP53</b>	NM_000546	11148	c.476C>T	<b>p.A159V</b>
<b>TP53</b>	NM_000546	11152	c.700T>C	<b>p.Y234H</b>
<b>TP53</b>	NM_000546	11166	c.406C>T	<b>p.Q136*</b>
<b>TP53</b>	NM_000546	11181	c.764T>C	<b>p.I255T</b>
<b>TP53</b>	NM_000546	11183	c.799C>T	<b>p.R267W</b>
<b>TP53</b>	NM_000546	11196	c.734G>T	<b>p.G245V</b>
<b>TP53</b>	NM_000546	11205	c.796G>C	<b>p.G266R</b>
<b>TP53</b>	NM_000546	11210	c.646G>T	<b>p.V216L</b>
<b>TP53</b>	NM_000546	11213	c.752T>C	<b>p.I251T</b>
<b>TP53</b>	NM_000546	11218	c.464C>A	<b>p.T155N</b>



TP53	NM_000546	11224	c.394A>C	p.K132Q
TP53	NM_000546	11232	c.842A>G	p.D281G
TP53	NM_000546	11244	c.764T>A	p.I255N
TP53	NM_000546	11249	c.537T>G	p.H179Q
TP53	NM_000546	11250	c.329G>C	p.R110P
TP53	NM_000546	11286	c.1015G>T	p.E339*
TP53	NM_000546	11287	c.839G>T	p.R280I
TP53	NM_000546	11290	c.625A>T	p.R209*
TP53	NM_000546	11291	c.1006G>T	p.E336*
TP53	NM_000546	11305	c.809T>C	p.F270S
TP53	NM_000546	11307	c.643A>T	p.S215C
TP53	NM_000546	11319	c.402T>G	p.F134L
TP53	NM_000546	11323	c.482C>A	p.A161D
TP53	NM_000546	11333	c.499C>T	p.Q167*
TP53	NM_000546	11351	c.614A>T	p.Y205F
TP53	NM_000546	11355	c.737T>C	p.M246T
TP53	NM_000546	11356	c.726C>G	p.C242W
TP53	NM_000546	11369	c.492G>T	p.K164N
TP53	NM_000546	11374	c.752T>A	p.I251N
TP53	NM_000546	11376	c.737T>G	p.M246R
TP53	NM_000546	11392	c.800G>C	p.R267P
TP53	NM_000546	11411	c.1010G>T	p.R337L
TP53	NM_000546	11448	c.321C>G	p.Y107*
TP53	NM_000546	11449	c.388C>T	p.L130F
TP53	NM_000546	11450	c.644G>T	p.S215I
TP53	NM_000546	11462	c.388C>G	p.L130V
TP53	NM_000546	11483	c.848G>A	p.R283H
TP53	NM_000546	11491	c.743G>C	p.R248P
TP53	NM_000546	11496	c.476C>A	p.A159D
TP53	NM_000546	11501	c.823T>G	p.C275G
TP53	NM_000546	11508	c.497C>A	p.S166*
TP53	NM_000546	11514	c.1001G>T	p.G334V
TP53	NM_000546	11516	c.841G>T	p.D281Y
TP53	NM_000546	11517	c.377A>G	p.Y126C
TP53	NM_000546	11524	c.730G>T	p.G244C
TP53	NM_000546	11542	c.703A>G	p.N235D
TP53	NM_000546	11564	c.742C>G	p.R248G
TP53	NM_000546	11582	c.395A>G	p.K132R
TP53	NM_000546	11606	c.31G>C	p.E11Q
TP53	NM_000546	11665	c.842A>C	p.D281A
TP53	NM_000546	11717	c.548C>A	p.S183*
TP53	NM_000546	11738	c.724T>C	p.C242R
TP53	NM_000546	11781	c.398T>A	p.M133K
TP53	NM_000546	11847	c.658T>G	p.Y220D
TP53	NM_000546	11860	c.638G>C	p.R213P
TP53	NM_000546	11929	c.760_761AT>GA	p.I254D
TP53	NM_000546	11966	c.485T>A	p.I162N
TP53	NM_000546	11998	c.534C>A	p.H178Q
TP53	NM_000546	12013	c.731G>C	p.G244A
TP53	NM_000546	12296	c.292C>T	p.P98S
TP53	NM_000546	13119	c.322_324delGGT	p.G108del
TP53	NM_000546	13120	c.626_627delGA	p.R209fs*6
TP53	NM_000546	13421	c.814delG	p.V272fs*73
TP53	NM_000546	146240	c.806_808delGCT	p.S269_F270>I
TP53	NM_000546	18597	c.1024delC	p.R342fs*3
TP53	NM_000546	18610	c.267delC	p.S90fs*33

TP53	NM_000546	18657	c.560-2A>G	p.?
TP53	NM_000546	21572	c.376-1G>A	p.?
TP53	NM_000546	22908	c.376-1G>T	p.?
TP53	NM_000546	249845	c.377_377delA	p.Y126fs*44
TP53	NM_000546	39293	c.734G>A	p.G245D
TP53	NM_000546	39455	c.569delC	p.P190fs*57
TP53	NM_000546	40942	c.380C>T	p.S127F
TP53	NM_000546	42811	c.641A>G	p.H214R
TP53	NM_000546	42813	c.313G>T	p.G105C
TP53	NM_000546	43054	c.518T>G	p.V173G
TP53	NM_000546	43533	c.391A>T	p.N131Y
TP53	NM_000546	43535	c.391A>C	p.N131H
TP53	NM_000546	43537	c.565G>A	p.A189T
TP53	NM_000546	43541	c.559+3G>C	p.?
TP53	NM_000546	43544	c.260C>A	p.P87Q
TP53	NM_000546	43545	c.503A>G	p.H168R
TP53	NM_000546	43548	c.467G>T	p.R156L
TP53	NM_000546	43550	c.694A>T	p.I232F
TP53	NM_000546	43555	c.736A>G	p.M246V
TP53	NM_000546	43559	c.517G>T	p.V173L
TP53	NM_000546	43564	c.708C>A	p.Y236*
TP53	NM_000546	43565	c.857A>G	p.E286G
TP53	NM_000546	43570	c.529_546del18	p.P177_C182delPH HERC
TP53	NM_000546	43582	c.454C>T	p.P152S
TP53	NM_000546	43584	c.534_535CC>TT	p.H179Y
TP53	NM_000546	43585	c.843_844CC>TT	p.R282W
TP53	NM_000546	43587	c.832_833CC>TT	p.P278F
TP53	NM_000546	43588	c.740A>C	p.N247T
TP53	NM_000546	43592	c.395A>T	p.K132M
TP53	NM_000546	43594	c.605G>A	p.R202H
TP53	NM_000546	43596	c.841G>A	p.D281N
TP53	NM_000546	43597	c.538G>T	p.E180*
TP53	NM_000546	43599	c.607G>A	p.V203M
TP53	NM_000546	43602	c.706T>G	p.Y236D
TP53	NM_000546	43606	c.734G>A	p.G245D
TP53	NM_000546	43608	c.605G>C	p.R202P
TP53	NM_000546	43614	c.854A>C	p.E285A
TP53	NM_000546	43615	c.473G>C	p.R158P
TP53	NM_000546	43616	c.704A>G	p.N235S
TP53	NM_000546	43621	c.809T>G	p.F270C
TP53	NM_000546	43623	c.581T>A	p.L194H
TP53	NM_000546	43624	c.875A>G	p.K292R
TP53	NM_000546	43625	c.469G>A	p.V157I
TP53	NM_000546	43626	c.475G>A	p.A159T
TP53	NM_000546	43629	c.745A>T	p.R249W
TP53	NM_000546	43632	c.493C>T	p.Q165*
TP53	NM_000546	43635	c.536A>T	p.H179L
TP53	NM_000546	43641	c.628delA	p.N210fs*37
TP53	NM_000546	43642	c.613T>C	p.Y205H
TP53	NM_000546	43645	c.721delT	p.S241fs*6
TP53	NM_000546	43648	c.685_686delTG	p.C229fs*10
TP53	NM_000546	43650	c.638G>T	p.R213L
TP53	NM_000546	43651	c.763A>T	p.I255F
TP53	NM_000546	43652	c.731G>T	p.G244V
TP53	NM_000546	43656	c.732C>G	p.G244G

<b>TP53</b>	NM_000546	43657	c.569C>T	<b>p.P190L</b>
<b>TP53</b>	NM_000546	43660	c.719G>T	<b>p.S240I</b>
<b>TP53</b>	NM_000546	43661	c.394delA	<b>p.K132fs*38</b>
<b>TP53</b>	NM_000546	43663	c.826G>C	<b>p.A276P</b>
<b>TP53</b>	NM_000546	43665	c.746G>C	<b>p.R249T</b>
<b>TP53</b>	NM_000546	43666	c.462C>T	<b>p.G154G</b>
<b>TP53</b>	NM_000546	43667	c.820G>A	<b>p.V274I</b>
<b>TP53</b>	NM_000546	43670	c.465C>T	<b>p.T155T</b>
<b>TP53</b>	NM_000546	43674	c.835G>T	<b>p.G279W</b>
<b>TP53</b>	NM_000546	43675	c.457C>T	<b>p.P153S</b>
<b>TP53</b>	NM_000546	43678	c.305C>T	<b>p.T102I</b>
<b>TP53</b>	NM_000546	43679	c.531C>T	<b>p.P177P</b>
<b>TP53</b>	NM_000546	43680	c.523C>T	<b>p.R175C</b>
<b>TP53</b>	NM_000546	43681	c.647T>G	<b>p.V216G</b>
<b>TP53</b>	NM_000546	43682	c.328C>T	<b>p.R110C</b>
<b>TP53</b>	NM_000546	43683	c.758C>T	<b>p.T253I</b>
<b>TP53</b>	NM_000546	43684	c.720T>G	<b>p.S240R</b>
<b>TP53</b>	NM_000546	43687	c.641A>G	<b>p.H214R</b>
<b>TP53</b>	NM_000546	43688	c.265C>T	<b>p.P89S</b>
<b>TP53</b>	NM_000546	43689	c.482C>T	<b>p.A161V</b>
<b>TP53</b>	NM_000546	43690	c.592G>A	<b>p.E198K</b>
<b>TP53</b>	NM_000546	43692	c.460G>A	<b>p.G154S</b>
<b>TP53</b>	NM_000546	43695	c.748C>T	<b>p.P250S</b>
<b>TP53</b>	NM_000546	43697	c.832C>A	<b>p.P278T</b>
<b>TP53</b>	NM_000546	43698	c.566C>G	<b>p.A189G</b>
<b>TP53</b>	NM_000546	43700	c.712T>A	<b>p.C238S</b>
<b>TP53</b>	NM_000546	43702	c.571C>T	<b>p.P191S</b>
<b>TP53</b>	NM_000546	43704	c.405C>T	<b>p.C135C</b>
<b>TP53</b>	NM_000546	43706	c.811G>C	<b>p.E271Q</b>
<b>TP53</b>	NM_000546	43709	c.500A>G	<b>p.Q167R</b>
<b>TP53</b>	NM_000546	43710	c.468delC	<b>p.V157fs*13</b>
<b>TP53</b>	NM_000546	43714	c.836G>A	<b>p.G279E</b>
<b>TP53</b>	NM_000546	43723	c.398T>C	<b>p.M133T</b>
<b>TP53</b>	NM_000546	43725	c.862A>T	<b>p.N288Y</b>
<b>TP53</b>	NM_000546	43726	c.727A>T	<b>p.M243L</b>
<b>TP53</b>	NM_000546	43728	c.543C>T	<b>p.R181R</b>
<b>TP53</b>	NM_000546	43730	c.398T>G	<b>p.M133R</b>
<b>TP53</b>	NM_000546	43732	c.517delG	<b>p.V173fs*1</b>
<b>TP53</b>	NM_000546	43734	c.528C>A	<b>p.C176*</b>
<b>TP53</b>	NM_000546	43737	c.830G>A	<b>p.C277Y</b>
<b>TP53</b>	NM_000546	43739	c.467G>A	<b>p.R156H</b>
<b>TP53</b>	NM_000546	43743	c.914A>G	<b>p.K305R</b>
<b>TP53</b>	NM_000546	43744	c.466C>A	<b>p.R156S</b>
<b>TP53</b>	NM_000546	43746	c.881A>G	<b>p.E294G</b>
<b>TP53</b>	NM_000546	43747	c.872A>G	<b>p.K291R</b>
<b>TP53</b>	NM_000546	43749	c.595G>A	<b>p.G199R</b>
<b>TP53</b>	NM_000546	43750	c.811G>T	<b>p.E271*</b>
<b>TP53</b>	NM_000546	43753	c.560-1G>A	<b>p.?</b>
<b>TP53</b>	NM_000546	43755	c.833C>A	<b>p.P278H</b>
<b>TP53</b>	NM_000546	43761	c.612G>A	<b>p.E204E</b>
<b>TP53</b>	NM_000546	43765	c.727A>C	<b>p.M243L</b>
<b>TP53</b>	NM_000546	43766	c.899C>T	<b>p.P300L</b>
<b>TP53</b>	NM_000546	43767	c.406C>G	<b>p.Q136E</b>
<b>TP53</b>	NM_000546	43768	c.700T>G	<b>p.Y234D</b>
<b>TP53</b>	NM_000546	43772	c.538G>A	<b>p.E180K</b>
<b>TP53</b>	NM_000546	43773	c.913A>T	<b>p.K305*</b>

<b>TP53</b>	NM_000546	43776	c.861G>A	<b>p.E287E</b>
<b>TP53</b>	NM_000546	43777	c.603G>C	<b>p.L201F</b>
<b>TP53</b>	NM_000546	43778	c.713G>T	<b>p.C238F</b>
<b>TP53</b>	NM_000546	43779	c.589G>A	<b>p.V197M</b>
<b>TP53</b>	NM_000546	43781	c.472delC	<b>p.R158fs*12</b>
<b>TP53</b>	NM_000546	43782	c.576G>A	<b>p.Q192Q</b>
<b>TP53</b>	NM_000546	43787	c.217G>A	<b>p.V73M</b>
<b>TP53</b>	NM_000546	43793	c.617T>A	<b>p.L206*</b>
<b>TP53</b>	NM_000546	43795	c.1023delC	<b>p.R342fs*3</b>
<b>TP53</b>	NM_000546	43797	c.550G>C	<b>p.D184H</b>
<b>TP53</b>	NM_000546	43801	c.716A>C	<b>p.N239T</b>
<b>TP53</b>	NM_000546	43806	c.689C>A	<b>p.T230N</b>
<b>TP53</b>	NM_000546	43807	c.637delC	<b>p.R213fs*34</b>
<b>TP53</b>	NM_000546	43809	c.808T>A	<b>p.F270I</b>
<b>TP53</b>	NM_000546	43814	c.587G>C	<b>p.R196P</b>
<b>TP53</b>	NM_000546	43820	c.489C>G	<b>p.Y163*</b>
<b>TP53</b>	NM_000546	43823	c.825T>G	<b>p.C275W</b>
<b>TP53</b>	NM_000546	43826	c.706T>A	<b>p.Y236N</b>
<b>TP53</b>	NM_000546	43827	c.581T>C	<b>p.L194P</b>
<b>TP53</b>	NM_000546	43828	c.544T>A	<b>p.C182S</b>
<b>TP53</b>	NM_000546	43829	c.752T>G	<b>p.I251S</b>
<b>TP53</b>	NM_000546	43831	c.472_475delCGCG	<b>p.R158fs*11</b>
<b>TP53</b>	NM_000546	43833	c.578A>C	<b>p.H193P</b>
<b>TP53</b>	NM_000546	43836	c.475G>C	<b>p.A159P</b>
<b>TP53</b>	NM_000546	43837	c.843C>G	<b>p.D281E</b>
<b>TP53</b>	NM_000546	43841	c.560-1G>T	<b>p.?</b>
<b>TP53</b>	NM_000546	43843	c.817C>G	<b>p.R273G</b>
<b>TP53</b>	NM_000546	43844	c.613T>G	<b>p.Y205D</b>
<b>TP53</b>	NM_000546	43846	c.487T>C	<b>p.Y163H</b>
<b>TP53</b>	NM_000546	43848	c.472C>T	<b>p.R158C</b>
<b>TP53</b>	NM_000546	43850	c.659A>C	<b>p.Y220S</b>
<b>TP53</b>	NM_000546	43851	c.506T>C	<b>p.M169T</b>
<b>TP53</b>	NM_000546	43853	c.684C>G	<b>p.D228E</b>
<b>TP53</b>	NM_000546	43859	c.598delA	<b>p.N200fs*47</b>
<b>TP53</b>	NM_000546	43860	c.704A>T	<b>p.N235I</b>
<b>TP53</b>	NM_000546	43861	c.502C>T	<b>p.H168Y</b>
<b>TP53</b>	NM_000546	43862	c.683A>C	<b>p.D228A</b>
<b>TP53</b>	NM_000546	43864	c.739A>T	<b>p.N247Y</b>
<b>TP53</b>	NM_000546	43865	c.701A>C	<b>p.Y234S</b>
<b>TP53</b>	NM_000546	43868	c.689C>T	<b>p.T230I</b>
<b>TP53</b>	NM_000546	43871	c.746G>T	<b>p.R249M</b>
<b>TP53</b>	NM_000546	43872	c.560-1G>C	<b>p.?</b>
<b>TP53</b>	NM_000546	43879	c.812A>G	<b>p.E271G</b>
<b>TP53</b>	NM_000546	43881	c.757A>T	<b>p.T253S</b>
<b>TP53</b>	NM_000546	43882	c.1010G>A	<b>p.R337H</b>
<b>TP53</b>	NM_000546	43889	c.691A>T	<b>p.T231S</b>
<b>TP53</b>	NM_000546	43891	c.480G>A	<b>p.M160I</b>
<b>TP53</b>	NM_000546	43896	c.818G>C	<b>p.R273P</b>
<b>TP53</b>	NM_000546	43898	c.485T>G	<b>p.I162S</b>
<b>TP53</b>	NM_000546	43900	c.376T>G	<b>p.Y126D</b>
<b>TP53</b>	NM_000546	43902	c.823T>C	<b>p.C275R</b>
<b>TP53</b>	NM_000546	43903	c.470T>G	<b>p.V157G</b>
<b>TP53</b>	NM_000546	43905	c.590T>G	<b>p.V197G</b>
<b>TP53</b>	NM_000546	43906	c.843C>A	<b>p.D281E</b>
<b>TP53</b>	NM_000546	43909	c.817C>A	<b>p.R273S</b>
<b>TP53</b>	NM_000546	43910	c.245C>T	<b>p.P82L</b>

TP53	NM_000546	43912	c.395A>C	p.K132T
TP53	NM_000546	43915	c.886C>T	p.H296Y
TP53	NM_000546	43918	c.809T>A	p.F270Y
TP53	NM_000546	43919	c.856G>T	p.E286*
TP53	NM_000546	43920	c.680C>T	p.S227F
TP53	NM_000546	43923	c.800G>A	p.R267Q
TP53	NM_000546	43927	c.559+9C>T	p.?
TP53	NM_000546	43928	c.615T>A	p.Y205*
TP53	NM_000546	43929	c.582T>C	p.L194L
TP53	NM_000546	43931	c.523C>A	p.R175S
TP53	NM_000546	43934	c.471C>A	p.V157V
TP53	NM_000546	43935	c.577C>A	p.H193N
TP53	NM_000546	43936	c.857A>T	p.E286V
TP53	NM_000546	43939	c.632C>T	p.T211I
TP53	NM_000546	43940	c.474C>T	p.R158R
TP53	NM_000546	43941	c.400T>G	p.F134V
TP53	NM_000546	43945	c.821T>G	p.V274G
TP53	NM_000546	43947	c.614A>G	p.Y205C
TP53	NM_000546	43949	c.401T>G	p.F134C
TP53	NM_000546	43951	c.643A>G	p.S215G
TP53	NM_000546	43952	c.710T>A	p.M237K
TP53	NM_000546	43955	c.514G>A	p.V172I
TP53	NM_000546	43956	c.700T>A	p.Y234N
TP53	NM_000546	43957	c.750C>T	p.P250P
TP53	NM_000546	43958	c.843C>T	p.D281D
TP53	NM_000546	43960	c.683A>G	p.D228G
TP53	NM_000546	43962	c.805A>G	p.S269G
TP53	NM_000546	43963	c.396G>C	p.K132N
TP53	NM_000546	43964	c.459C>T	p.P153P
TP53	NM_000546	43965	c.734G>C	p.G245A
TP53	NM_000546	43967	c.751A>T	p.I251F
TP53	NM_000546	43968	c.866T>C	p.L289P
TP53	NM_000546	43970	c.380C>A	p.S127Y
TP53	NM_000546	43973	c.718A>G	p.S240G
TP53	NM_000546	43977	c.849C>T	p.R283R
TP53	NM_000546	43978	c.529delC	p.H178fs*69
TP53	NM_000546	43979	c.802A>C	p.N268H
TP53	NM_000546	43980	c.691A>G	p.T231A
TP53	NM_000546	43986	c.908G>A	p.S303N
TP53	NM_000546	43987	c.622G>A	p.D208N
TP53	NM_000546	43988	c.905G>A	p.G302E
TP53	NM_000546	43989	c.596G>A	p.G199E
TP53	NM_000546	43990	c.610G>A	p.E204K
TP53	NM_000546	43995	c.740A>T	p.N247I
TP53	NM_000546	44002	c.577C>G	p.H193D
TP53	NM_000546	44004	c.569C>G	p.P190R
TP53	NM_000546	44005	c.835delG	p.R280fs*65
TP53	NM_000546	44009	c.463_470delACCCGCGT	p.T155fs*23
TP53	NM_000546	44011	c.610delG	p.E204fs*43
TP53	NM_000546	44017	c.869G>A	p.R290H
TP53	NM_000546	44018	c.214C>T	p.R72C
TP53	NM_000546	44019	c.226_270del45	p.A76_S90del15
TP53	NM_000546	44023	c.560G>A	p.G187D
TP53	NM_000546	44026	c.559G>A	p.G187S
TP53	NM_000546	44029	c.550G>A	p.D184N
TP53	NM_000546	44030	c.760A>G	p.I254V

TP53	NM_000546	44032	c.298C>T	p.Q100*
TP53	NM_000546	44033	c.464C>T	p.T155I
TP53	NM_000546	44035	c.496T>C	p.S166P
TP53	NM_000546	44036	c.296C>T	p.S99F
TP53	NM_000546	44037	c.322G>A	p.G108S
TP53	NM_000546	44048	c.280T>A	p.S94T
TP53	NM_000546	44054	c.754C>T	p.L252F
TP53	NM_000546	44057	c.517G>C	p.V173L
TP53	NM_000546	44058	c.761T>C	p.I254T
TP53	NM_000546	44061	c.456G>A	p.P152P
TP53	NM_000546	44063	c.389T>G	p.L130R
TP53	NM_000546	44064	c.748delC	p.I251fs*94
TP53	NM_000546	44067	c.721T>A	p.S241T
TP53	NM_000546	44068	c.532C>A	p.H178N
TP53	NM_000546	44070	c.1031T>C	p.L344P
TP53	NM_000546	44072	c.706_708delTAC	p.Y236del
TP53	NM_000546	44074	c.605_606GT>CG	p.R202P
TP53	NM_000546	44075	c.251C>G	p.A84G
TP53	NM_000546	44076	c.655C>T	p.P219S
TP53	NM_000546	44091	c.746G>A	p.R249K
TP53	NM_000546	44092	c.794T>G	p.L265R
TP53	NM_000546	44093	c.644G>A	p.S215N
TP53	NM_000546	44094	c.716A>G	p.N239S
TP53	NM_000546	44096	c.748C>G	p.P250A
TP53	NM_000546	44097	c.530C>T	p.P177L
TP53	NM_000546	44102	c.637C>G	p.R213G
TP53	NM_000546	44103	c.737T>A	p.M246K
TP53	NM_000546	44112	c.640C>T	p.H214Y
TP53	NM_000546	44113	c.693C>T	p.T231T
TP53	NM_000546	44114	c.826G>A	p.A276T
TP53	NM_000546	44119	c.483C>T	p.A161A
TP53	NM_000546	44120	c.532C>T	p.H178Y
TP53	NM_000546	44124	c.751delA	p.I251fs*94
TP53	NM_000546	44125	c.486C>G	p.I162M
TP53	NM_000546	44126	c.507G>A	p.M169I
TP53	NM_000546	44127	c.880G>A	p.E294K
TP53	NM_000546	44128	c.879G>A	p.G293G
TP53	NM_000546	44129	c.729G>A	p.M243I
TP53	NM_000546	44130	c.477C>T	p.A159A
TP53	NM_000546	44131	c.879G>C	p.G293G
TP53	NM_000546	44132	c.708C>T	p.Y236Y
TP53	NM_000546	44133	c.859G>T	p.E287*
TP53	NM_000546	44134	c.528delC	p.H178fs*69
TP53	NM_000546	44135	c.724T>G	p.C242G
TP53	NM_000546	44140	c.596G>T	p.G199V
TP53	NM_000546	44142	c.377A>C	p.Y126S
TP53	NM_000546	44146	c.526T>A	p.C176S
TP53	NM_000546	44151	c.535C>A	p.H179N
TP53	NM_000546	44152	c.542G>T	p.R181L
TP53	NM_000546	44156	c.810T>A	p.F270L
TP53	NM_000546	44157	c.601delT	p.L201fs*46
TP53	NM_000546	44162	c.635_636delTT	p.F212fs*3
TP53	NM_000546	44165	c.903A>G	p.P301P
TP53	NM_000546	44167	c.908G>C	p.S303T
TP53	NM_000546	44169	c.614A>C	p.Y205S
TP53	NM_000546	44171	c.840A>T	p.R280S

TP53	NM_000546	44172	c.572C>G	p.P191R
TP53	NM_000546	44174	c.604C>A	p.R202S
TP53	NM_000546	44175	c.644G>C	p.S215T
TP53	NM_000546	44183	c.715delA	p.N239fs*8
TP53	NM_000546	44185	c.555C>A	p.S185R
TP53	NM_000546	44192	c.272G>A	p.W91*
TP53	NM_000546	44194	c.251C>T	p.A84V
TP53	NM_000546	44198	c.653T>G	p.V218G
TP53	NM_000546	44200	c.242C>T	p.T81I
TP53	NM_000546	44202	c.550G>T	p.D184Y
TP53	NM_000546	44206	c.399G>T	p.M133I
TP53	NM_000546	44207	c.874delA	p.E294fs*51
TP53	NM_000546	44212	c.391_393delAAC	p.N131del
TP53	NM_000546	44214	c.537T>A	p.H179Q
TP53	NM_000546	44215	c.533A>C	p.H178P
TP53	NM_000546	44216	c.487T>G	p.Y163D
TP53	NM_000546	44217	c.718delA	p.S240fs*7
TP53	NM_000546	44218	c.536A>C	p.H179P
TP53	NM_000546	44219	c.405C>G	p.C135W
TP53	NM_000546	44221	c.730G>C	p.G244R
TP53	NM_000546	44224	c.721T>G	p.S241A
TP53	NM_000546	44225	c.859G>A	p.E287K
TP53	NM_000546	44226	c.380C>T	p.S127F
TP53	NM_000546	44227	c.854A>T	p.E285V
TP53	NM_000546	44229	c.515T>A	p.V172D
TP53	NM_000546	44230	c.481delG	p.A161fs*9
TP53	NM_000546	44231	c.262delG	p.A88fs*35
TP53	NM_000546	44233	c.840A>C	p.R280S
TP53	NM_000546	44234	c.571_573delCCT	p.P191del
TP53	NM_000546	44236	c.806G>A	p.S269N
TP53	NM_000546	44237	c.904delG	p.S303fs*42
TP53	NM_000546	44238	c.631A>G	p.T211A
TP53	NM_000546	44239	c.647delT	p.V216fs*31
TP53	NM_000546	44240	c.514G>T	p.V172F
TP53	NM_000546	44241	c.592G>T	p.E198*
TP53	NM_000546	44247	c.754_756delCTC	p.L252del
TP53	NM_000546	44249	c.623A>T	p.D208V
TP53	NM_000546	44250	c.856G>C	p.E286Q
TP53	NM_000546	44257	c.301delA	p.T102fs*21
TP53	NM_000546	44262	c.808T>C	p.F270L
TP53	NM_000546	44267	c.472_477delCGCGCC	p.R158_A159delRA
TP53	NM_000546	44268	c.559+1G>T	p.?
TP53	NM_000546	44271	c.688A>C	p.T230P
TP53	NM_000546	44274	c.647T>A	p.V216E
TP53	NM_000546	44275	c.499_500delCA	p.Q167fs*13
TP53	NM_000546	44282	c.496T>G	p.S166A
TP53	NM_000546	44287	c.229C>G	p.P77A
TP53	NM_000546	44289	c.497C>T	p.S166L
TP53	NM_000546	44290	c.763A>G	p.I255V
TP53	NM_000546	44292	c.858A>G	p.E286E
TP53	NM_000546	44294	c.815T>C	p.V272A
TP53	NM_000546	44297	c.376-3C>T	p.?
TP53	NM_000546	44298	c.462C>A	p.G154G
TP53	NM_000546	44299	c.501G>A	p.Q167Q
TP53	NM_000546	44300	c.548C>T	p.S183L
TP53	NM_000546	44301	c.468C>G	p.R156R

<b>TP53</b>	NM_000546	44303	c.463A>G	<b>p.T155A</b>
<b>TP53</b>	NM_000546	44305	c.479T>A	<b>p.M160K</b>
<b>TP53</b>	NM_000546	44306	c.845G>C	<b>p.R282P</b>
<b>TP53</b>	NM_000546	44308	c.494A>G	<b>p.Q165R</b>
<b>TP53</b>	NM_000546	44310	c.738G>A	<b>p.M246I</b>
<b>TP53</b>	NM_000546	44312	c.511G>A	<b>p.E171K</b>
<b>TP53</b>	NM_000546	44313	c.686G>A	<b>p.C229Y</b>
<b>TP53</b>	NM_000546	44317	c.653T>A	<b>p.V218E</b>
<b>TP53</b>	NM_000546	44319	c.405C>A	<b>p.C135*</b>
<b>TP53</b>	NM_000546	44320	c.484A>T	<b>p.I162F</b>
<b>TP53</b>	NM_000546	44321	c.712T>C	<b>p.C238R</b>
<b>TP53</b>	NM_000546	44322	c.728T>A	<b>p.M243K</b>
<b>TP53</b>	NM_000546	44326	c.706T>C	<b>p.Y236H</b>
<b>TP53</b>	NM_000546	44327	c.518T>C	<b>p.V173A</b>
<b>TP53</b>	NM_000546	44328	c.478A>G	<b>p.M160V</b>
<b>TP53</b>	NM_000546	44329	c.470T>A	<b>p.V157D</b>
<b>TP53</b>	NM_000546	44334	c.649G>T	<b>p.V217L</b>
<b>TP53</b>	NM_000546	44336	c.499delC	<b>p.Q167fs*3</b>
<b>TP53</b>	NM_000546	44338	c.845G>A	<b>p.R282Q</b>
<b>TP53</b>	NM_000546	44343	c.547T>C	<b>p.S183P</b>
<b>TP53</b>	NM_000546	44345	c.915G>T	<b>p.K305N</b>
<b>TP53</b>	NM_000546	44346	c.875A>C	<b>p.K292T</b>
<b>TP53</b>	NM_000546	44349	c.566C>T	<b>p.A189V</b>
<b>TP53</b>	NM_000546	44350	c.699C>G	<b>p.H233Q</b>
<b>TP53</b>	NM_000546	44351	c.572C>T	<b>p.P191L</b>
<b>TP53</b>	NM_000546	44352	c.850A>C	<b>p.T284P</b>
<b>TP53</b>	NM_000546	44358	c.634delT	<b>p.R213fs*34</b>
<b>TP53</b>	NM_000546	44360	c.686_687delGT	<b>p.C229fs*10</b>
<b>TP53</b>	NM_000546	44365	c.607G>T	<b>p.V203L</b>
<b>TP53</b>	NM_000546	44367	c.458C>T	<b>p.P153L</b>
<b>TP53</b>	NM_000546	44371	c.631delA	<b>p.T211fs*36</b>
<b>TP53</b>	NM_000546	44372	c.640delC	<b>p.H214fs*33</b>
<b>TP53</b>	NM_000546	44375	c.650T>G	<b>p.V217G</b>
<b>TP53</b>	NM_000546	44378	c.726C>A	<b>p.C242*</b>
<b>TP53</b>	NM_000546	44380	c.376T>A	<b>p.Y126N</b>
<b>TP53</b>	NM_000546	44383	c.518T>G	<b>p.V173G</b>
<b>TP53</b>	NM_000546	44384	c.510G>A	<b>p.T170T</b>
<b>TP53</b>	NM_000546	44387	c.491A>C	<b>p.K164T</b>
<b>TP53</b>	NM_000546	44388	c.853G>T	<b>p.E285*</b>
<b>TP53</b>	NM_000546	44390	c.838A>T	<b>p.R280*</b>
<b>TP53</b>	NM_000546	44391	c.489C>T	<b>p.Y163Y</b>
<b>TP53</b>	NM_000546	44393	c.821T>C	<b>p.V274A</b>
<b>TP53</b>	NM_000546	44396	c.382delC	<b>p.P128fs*42</b>
<b>TP53</b>	NM_000546	44397	c.382C>T	<b>p.P128S</b>
<b>TP53</b>	NM_000546	44398	c.682G>A	<b>p.D228N</b>
<b>TP53</b>	NM_000546	44399	c.677G>T	<b>p.G226V</b>
<b>TP53</b>	NM_000546	44405	c.376_396del21	<b>p.Y126_K132delYS</b>
<b>TP53</b>	NM_000546	44407	c.642T>G	<b>PALNK</b>
<b>TP53</b>	NM_000546	44411	c.608T>A	<b>p.H214Q</b>
<b>TP53</b>	NM_000546	44412	c.882G>A	<b>p.V203E</b>
<b>TP53</b>	NM_000546	44413	c.484A>G	<b>p.E294E</b>
<b>TP53</b>	NM_000546	44415	c.711G>C	<b>p.I162V</b>
<b>TP53</b>	NM_000546	44416	c.459C>A	<b>p.M237I</b>
<b>TP53</b>	NM_000546	44417	c.910delA	<b>p.P153P</b>
<b>TP53</b>	NM_000546	44424	c.590T>A	<b>p.T304fs*41</b>
<b>TP53</b>	NM_000546			<b>p.V197E</b>



TP53	NM_000546	44426	c.568C>G	p.P190A
TP53	NM_000546	44428	c.741C>T	p.N247N
TP53	NM_000546	44431	c.505A>G	p.M169V
TP53	NM_000546	44433	c.872A>C	p.K291T
TP53	NM_000546	44438	c.568C>A	p.P190T
TP53	NM_000546	44439	c.656C>T	p.P219L
TP53	NM_000546	44441	c.813G>C	p.E271D
TP53	NM_000546	44443	c.820G>C	p.V274L
TP53	NM_000546	44446	c.873G>C	p.K291N
TP53	NM_000546	44447	c.287C>T	p.S96F
TP53	NM_000546	44448	c.821T>A	p.V274D
TP53	NM_000546	44451	c.874A>G	p.K292E
TP53	NM_000546	44453	c.309C>G	p.Y103*
TP53	NM_000546	44457	c.751_759delATCCTCACC	p.I251_T253delILLT
TP53	NM_000546	44458	c.688_698del11	p.T230fs*6
TP53	NM_000546	44460	c.757_760delACCA	p.T253fs*91
TP53	NM_000546	44463	c.848G>T	p.R283L
TP53	NM_000546	44464	c.749_750CC>AG	p.P250Q
TP53	NM_000546	44467	c.497C>G	p.S166*
TP53	NM_000546	44469	c.812A>T	p.E271V
TP53	NM_000546	44470	c.845G>T	p.R282L
TP53	NM_000546	44474	c.392A>G	p.N131S
TP53	NM_000546	44475	c.871A>T	p.K291*
TP53	NM_000546	44476	c.749C>A	p.P250H
TP53	NM_000546	44481	c.313G>T	p.G105C
TP53	NM_000546	44492	c.273G>A	p.W91*
TP53	NM_000546	44495	c.559+2T>A	p.?
TP53	NM_000546	44502	c.599A>G	p.N200S
TP53	NM_000546	44505	c.660T>G	p.Y220*
TP53	NM_000546	44506	c.401T>C	p.F134S
TP53	NM_000546	44510	c.717C>G	p.N239K
TP53	NM_000546	44511	c.753C>A	p.I251I
TP53	NM_000546	44512	c.740A>G	p.N247S
TP53	NM_000546	44513	c.732C>A	p.G244G
TP53	NM_000546	44514	c.728T>G	p.M243R
TP53	NM_000546	44517	c.519G>A	p.V173V
TP53	NM_000546	44518	c.522G>A	p.R174R
TP53	NM_000546	44521	c.490A>C	p.K164Q
TP53	NM_000546	44522	c.887A>T	p.H296L
TP53	NM_000546	44523	c.863A>G	p.N288S
TP53	NM_000546	44524	c.521G>A	p.R174K
TP53	NM_000546	44525	c.709A>G	p.M237V
TP53	NM_000546	44526	c.471C>T	p.V157V
TP53	NM_000546	44535	c.761T>A	p.I254N
TP53	NM_000546	44536	c.728T>C	p.M243T
TP53	NM_000546	44537	c.595G>T	p.G199*
TP53	NM_000546	44539	c.584T>G	p.I195S
TP53	NM_000546	44541	c.754delC	p.L252fs*93
TP53	NM_000546	44544	c.766A>G	p.T256A
TP53	NM_000546	44546	c.545G>A	p.C182Y
TP53	NM_000546	44547	c.677G>A	p.G226D
TP53	NM_000546	44550	c.386C>T	p.A129V
TP53	NM_000546	44552	c.509C>T	p.T170M
TP53	NM_000546	44561	c.454C>A	p.P152T
TP53	NM_000546	44563	c.544T>C	p.C182R
TP53	NM_000546	44565	c.907A>T	p.S303C

<b>TP53</b>	NM_000546	44566	c.525C>G	<b>p.R175R</b>
<b>TP53</b>	NM_000546	44567	c.647T>C	<b>p.V216A</b>
<b>TP53</b>	NM_000546	44568	c.840A>G	<b>p.R280R</b>
<b>TP53</b>	NM_000546	44569	c.588A>G	<b>p.R196R</b>
<b>TP53</b>	NM_000546	44571	c.581T>G	<b>p.L194R</b>
<b>TP53</b>	NM_000546	44578	c.721T>C	<b>p.S241P</b>
<b>TP53</b>	NM_000546	44580	c.815T>A	<b>p.V272E</b>
<b>TP53</b>	NM_000546	44585	c.655delC	<b>p.Y220fs*27</b>
<b>TP53</b>	NM_000546	44589	c.393_395delCAA	<b>p.N131del</b>
<b>TP53</b>	NM_000546	44599	c.587G>A	<b>p.R196Q</b>
<b>TP53</b>	NM_000546	44601	c.695T>C	<b>p.I232T</b>
<b>TP53</b>	NM_000546	44603	c.835G>A	<b>p.G279R</b>
<b>TP53</b>	NM_000546	44607	c.646_648delGTG	<b>p.V216del</b>
<b>TP53</b>	NM_000546	44609	c.748_749CC>TT	<b>p.P250F</b>
<b>TP53</b>	NM_000546	44613	c.455C>A	<b>p.P152Q</b>
<b>TP53</b>	NM_000546	44615	c.586C>A	<b>p.R196R</b>
<b>TP53</b>	NM_000546	44621	c.718A>T	<b>p.S240C</b>
<b>TP53</b>	NM_000546	44622	c.694A>G	<b>p.I232V</b>
<b>TP53</b>	NM_000546	44623	c.487T>A	<b>p.Y163N</b>
<b>TP53</b>	NM_000546	44625	c.747G>A	<b>p.R249R</b>
<b>TP53</b>	NM_000546	44633	c.583A>T	<b>p.I195F</b>
<b>TP53</b>	NM_000546	44637	c.658T>C	<b>p.Y220H</b>
<b>TP53</b>	NM_000546	44638	c.640_647delCATAGTGT	<b>p.H214fs*5</b>
<b>TP53</b>	NM_000546	44639	c.869G>T	<b>p.R290L</b>
<b>TP53</b>	NM_000546	44641	c.394A>T	<b>p.K132*</b>
<b>TP53</b>	NM_000546	44642	c.733delG	<b>p.G245fs*2</b>
<b>TP53</b>	NM_000546	44643	c.404G>C	<b>p.C135S</b>
<b>TP53</b>	NM_000546	44645	c.527G>C	<b>p.C176S</b>
<b>TP53</b>	NM_000546	44647	c.717C>A	<b>p.N239K</b>
<b>TP53</b>	NM_000546	44650	c.751_753delATC	<b>p.I251del</b>
<b>TP53</b>	NM_000546	44651	c.856_863delGAAGAGAA	<b>p.E286fs*17</b>
<b>TP53</b>	NM_000546	44653	c.713G>C	<b>p.C238S</b>
<b>TP53</b>	NM_000546	44654	c.400T>C	<b>p.F134L</b>
<b>TP53</b>	NM_000546	44657	c.722delC	<b>p.C242fs*5</b>
<b>TP53</b>	NM_000546	44659	c.532delC	<b>p.H178fs*69</b>
<b>TP53</b>	NM_000546	44661	c.632C>A	<b>p.T211N</b>
<b>TP53</b>	NM_000546	44662	c.766A>T	<b>p.T256S</b>
<b>TP53</b>	NM_000546	44664	c.736_750delI15	<b>p.M246_P250delIM</b>
<b>TP53</b>	NM_000546	44665	c.568_570delCCT	<b>NRRP</b>
<b>TP53</b>	NM_000546	44670	c.400delT	<b>p.P190del</b>
<b>TP53</b>	NM_000546	44672	c.658T>A	<b>p.C135fs*35</b>
<b>TP53</b>	NM_000546	44673	c.284C>T	<b>p.Y220N</b>
<b>TP53</b>	NM_000546	44676	c.714T>G	<b>p.S95F</b>
<b>TP53</b>	NM_000546	44681	c.293C>T	<b>p.C238W</b>
<b>TP53</b>	NM_000546	44682	c.568C>T	<b>p.P98L</b>
<b>TP53</b>	NM_000546	44683	c.652G>A	<b>p.P190S</b>
<b>TP53</b>	NM_000546	44687	c.379T>C	<b>p.V218M</b>
<b>TP53</b>	NM_000546	44689	c.657C>T	<b>p.S127P</b>
<b>TP53</b>	NM_000546	44692	c.526T>G	<b>p.P219P</b>
<b>TP53</b>	NM_000546	44693	c.707A>C	<b>p.C176G</b>
<b>TP53</b>	NM_000546	44694	c.486C>A	<b>p.Y236S</b>
<b>TP53</b>	NM_000546	44695	c.634_635delTT	<b>p.I162I</b>
<b>TP53</b>	NM_000546	44700	c.556G>A	<b>p.F212fs*3</b>
<b>TP53</b>	NM_000546	44701	c.817delC	<b>p.D186N</b>
<b>TP53</b>	NM_000546	44705	c.697C>T	<b>p.R273fs*72</b>
				<b>p.H233Y</b>

TP53	NM_000546	44707	c.609G>A	p.V203V
TP53	NM_000546	44709	c.855G>A	p.E285E
TP53	NM_000546	44714	c.553A>G	p.S185G
TP53	NM_000546	44715	c.460G>T	p.G154C
TP53	NM_000546	44724	c.846G>A	p.R282R
TP53	NM_000546	44725	c.522delG	p.R174fs*73
TP53	NM_000546	44726	c.460_466delGGCACCC	p.G154fs*14
TP53	NM_000546	44729	c.898C>T	p.P300S
TP53	NM_000546	44730	c.529_545del17	p.P177fs*3
TP53	NM_000546	44732	c.512A>G	p.E171G
TP53	NM_000546	44735	c.825T>C	p.C275C
TP53	NM_000546	44737	c.860A>G	p.E287G
TP53	NM_000546	44742	c.523_540del18	p.R175_E180delIRC PHHE
TP53	NM_000546	44749	c.453C>T	p.P151P
TP53	NM_000546	44750	c.883C>T	p.P295S
TP53	NM_000546	44753	c.901C>T	p.P301S
TP53	NM_000546	44757	c.586delC	p.R196fs*51
TP53	NM_000546	44759	c.526delT	p.C176fs*71
TP53	NM_000546	44769	c.755T>C	p.L252P
TP53	NM_000546	44774	c.376_393del18	p.Y126_N131delYS PALN
TP53	NM_000546	44776	c.535C>G	p.H179D
TP53	NM_000546	44782	c.520A>T	p.R174W
TP53	NM_000546	44784	c.703_705delAAC	p.N235del
TP53	NM_000546	44787	c.732C>T	p.G244G
TP53	NM_000546	44788	c.454C>G	p.P152A
TP53	NM_000546	44793	c.537T>C	p.H179H
TP53	NM_000546	44794	c.392A>T	p.N131I
TP53	NM_000546	44801	c.503A>T	p.H168L
TP53	NM_000546	44808	c.503A>C	p.H168P
TP53	NM_000546	44817	c.661G>T	p.E221*
TP53	NM_000546	44818	c.531C>G	p.P177P
TP53	NM_000546	44820	c.692C>T	p.T231I
TP53	NM_000546	44829	c.403T>G	p.C135G
TP53	NM_000546	44830	c.1066G>T	p.G356W
TP53	NM_000546	44832	c.1096T>G	p.S366A
TP53	NM_000546	44835	c.852A>T	p.T284T
TP53	NM_000546	44837	c.556G>C	p.D186H
TP53	NM_000546	44838	c.720T>C	p.S240S
TP53	NM_000546	44841	c.491A>T	p.K164M
TP53	NM_000546	44842	c.478A>C	p.M160L
TP53	NM_000546	44843	c.759C>T	p.T253T
TP53	NM_000546	44844	c.727A>G	p.M243V
TP53	NM_000546	44845	c.591G>A	p.V197V
TP53	NM_000546	44846	c.636T>A	p.F212L
TP53	NM_000546	44848	c.579T>C	p.H193H
TP53	NM_000546	44849	c.575A>G	p.Q192R
TP53	NM_000546	44850	c.494A>T	p.Q165L
TP53	NM_000546	44851	c.494A>C	p.Q165P
TP53	NM_000546	44852	c.617delT	p.L206fs*41
TP53	NM_000546	44853	c.661G>A	p.E221K
TP53	NM_000546	44854	c.655C>A	p.P219T
TP53	NM_000546	44861	c.490delA	p.K164fs*6
TP53	NM_000546	44868	c.804C>T	p.N268N
TP53	NM_000546	44870	c.815T>G	p.V272G

TP53	NM_000546	44871	c.833delC	p.P278fs*67
TP53	NM_000546	44877	c.584T>A	p.I195N
TP53	NM_000546	44879	c.1033delA	p.N345fs*25
TP53	NM_000546	44886	c.807C>T	p.S269S
TP53	NM_000546	44887	c.644delG	p.S215fs*32
TP53	NM_000546	44891	c.796G>T	p.G266*
TP53	NM_000546	44896	c.835_838delGGGA	p.G279fs*65
TP53	NM_000546	44897	c.871_889del19	p.K291fs*48
TP53	NM_000546	44900	c.735C>T	p.G245G
TP53	NM_000546	44901	c.532C>G	p.H178D
TP53	NM_000546	44903	c.736delA	p.M246fs*1
TP53	NM_000546	44908	c.743_744GG>AA	p.R248Q
TP53	NM_000546	44910	c.403T>A	p.C135S
TP53	NM_000546	44916	c.746delG	p.R249fs*96
TP53	NM_000546	44918	c.844C>A	p.R282R
TP53	NM_000546	44920	c.742C>A	p.R248R
TP53	NM_000546	44921	c.748_756delCCCATCCTC	p.P250_L252delPIL
TP53	NM_000546	44923	c.565G>C	p.A189P
TP53	NM_000546	44924	c.615T>G	p.Y205*
TP53	NM_000546	44925	c.605G>T	p.R202L
TP53	NM_000546	44929	c.650T>A	p.V217E
TP53	NM_000546	44930	c.653T>C	p.V218A
TP53	NM_000546	44933	c.376-4A>G	p.?
TP53	NM_000546	44935	c.724T>A	p.C242S
TP53	NM_000546	44940	c.730delG	p.G244fs*3
TP53	NM_000546	44948	c.526T>C	p.C176R
TP53	NM_000546	44953	c.700_702delTAC	p.Y234del
TP53	NM_000546	44956	c.808T>G	p.F270V
TP53	NM_000546	44960	c.708C>G	p.Y236*
TP53	NM_000546	44964	c.719G>C	p.S240T
TP53	NM_000546	44965	c.709A>T	p.M237L
TP53	NM_000546	44966	c.385G>A	p.A129T
TP53	NM_000546	44971	c.534C>T	p.H178H
TP53	NM_000546	44972	c.831T>A	p.C277*
TP53	NM_000546	44973	c.516T>C	p.V172V
TP53	NM_000546	44979	c.645T>G	p.S215R
TP53	NM_000546	44986	c.302A>G	p.K101R
TP53	NM_000546	44996	c.515T>C	p.V172A
TP53	NM_000546	45005	c.739A>G	p.N247D
TP53	NM_000546	45015	c.380_381CC>TT	p.S127F
TP53	NM_000546	45017	c.722_723CC>TT	p.S241F
TP53	NM_000546	45019	c.471_472CC>TT	p.R158C
TP53	NM_000546	45021	c.585_586CC>TT	p.R196*
TP53	NM_000546	45025	c.488A>C	p.Y163S
TP53	NM_000546	45026	c.560-2A>T	p.?
TP53	NM_000546	45028	c.684C>T	p.D228D
TP53	NM_000546	45029	c.565_591del27	p.A189_V197delAP
TP53	NM_000546	45032	c.710T>G	PQHILRV
TP53	NM_000546	45034	c.748_749CC>AA	p.M237R
TP53	NM_000546	45035	c.761T>G	p.P250N
TP53	NM_000546	45040	c.321C>A	p.I254S
TP53	NM_000546	45044	c.576G>T	p.Y107*
TP53	NM_000546	45045	c.695T>G	p.Q192H
TP53	NM_000546	45046	c.542G>C	p.I232S
TP53	NM_000546	45047	c.515T>G	p.R181P
TP53	NM_000546	45047	c.515T>G	p.V172G

TP53	NM_000546	45050	c.871A>G	p.K291E
TP53	NM_000546	45051	c.597A>G	p.G199G
TP53	NM_000546	45055	c.715_720delAACAGT	p.N239_S240delINS
TP53	NM_000546	45057	c.475delG	p.A159fs*11
TP53	NM_000546	45069	c.886delC	p.H296fs*49
TP53	NM_000546	45074	c.829T>G	p.C277G
TP53	NM_000546	45077	c.390C>T	p.L130L
TP53	NM_000546	45084	c.744G>A	p.R248R
TP53	NM_000546	45089	c.407A>C	p.Q136P
TP53	NM_000546	45091	c.755T>A	p.L252H
TP53	NM_000546	45101	c.913_915AAG>TAA	p.K305*
TP53	NM_000546	45103	c.492G>A	p.K164K
TP53	NM_000546	45109	c.831T>C	p.C277C
TP53	NM_000546	45110	c.650T>C	p.V217A
TP53	NM_000546	45111	c.469_473delGTCCG	p.V157fs*22
TP53	NM_000546	45114	c.702C>A	p.Y234*
TP53	NM_000546	45115	c.640C>G	p.H214D
TP53	NM_000546	45116	c.742delC	p.R248fs*97
TP53	NM_000546	45120	c.469G>C	p.V157L
TP53	NM_000546	45122	c.645T>A	p.S215R
TP53	NM_000546	45128	c.911C>T	p.T304I
TP53	NM_000546	45131	c.383C>T	p.P128L
TP53	NM_000546	45134	c.715_726del12	p.N239_C242delINS SC
TP53	NM_000546	45138	c.853G>C	p.E285Q
TP53	NM_000546	45140	c.572_574delCTC	p.P191del
TP53	NM_000546	45154	c.466C>G	p.R156G
TP53	NM_000546	45157	c.688delA	p.T230fs*17
TP53	NM_000546	45162	c.709delA	p.M237fs*10
TP53	NM_000546	45168	c.722_724delCCT	p.S241del
TP53	NM_000546	45169	c.326T>C	p.F109S
TP53	NM_000546	45172	c.703A>T	p.N235Y
TP53	NM_000546	45178	c.832delC	p.P278fs*67
TP53	NM_000546	45179	c.313G>C	p.G105R
TP53	NM_000546	45184	c.902delC	p.P301fs*44
TP53	NM_000546	45187	c.490_499del10	p.K164fs*3
TP53	NM_000546	45188	c.847delC	p.R283fs*62
TP53	NM_000546	45194	c.487delT	p.Y163fs*7
TP53	NM_000546	45198	c.555C>T	p.S185S
TP53	NM_000546	45200	c.233C>T	p.A78V
TP53	NM_000546	45233	c.884C>T	p.P295L
TP53	NM_000546	45240	c.560G>T	p.G187V
TP53	NM_000546	45248	c.805A>T	p.S269C
TP53	NM_000546	45253	c.611A>G	p.E204G
TP53	NM_000546	45257	c.626G>C	p.R209T
TP53	NM_000546	45261	c.720T>A	p.S240R
TP53	NM_000546	45268	c.827C>A	p.A276D
TP53	NM_000546	45275	c.559G>T	p.G187C
TP53	NM_000546	45276	c.1025G>C	p.R342P
TP53	NM_000546	45277	c.856delG	p.E286fs*59
TP53	NM_000546	45278	c.1025G>A	p.R342Q
TP53	NM_000546	45284	c.813G>A	p.E271E
TP53	NM_000546	45286	c.475G>T	p.A159S
TP53	NM_000546	45288	c.217G>C	p.V73L
TP53	NM_000546	45293	c.407A>G	p.Q136R
TP53	NM_000546	45297	c.810T>G	p.F270L

<b>TP53</b>	NM_000546	45299	c.831T>G	<b>p.C277W</b>
<b>TP53</b>	NM_000546	45306	c.886C>A	<b>p.H296N</b>
<b>TP53</b>	NM_000546	45307	c.309C>A	<b>p.Y103*</b>
<b>TP53</b>	NM_000546	45308	c.607delG	<b>p.V203fs*44</b>
<b>TP53</b>	NM_000546	45311	c.898C>G	<b>p.P300A</b>
<b>TP53</b>	NM_000546	45314	c.553delA	<b>p.S185fs*62</b>
<b>TP53</b>	NM_000546	45320	c.569delC	<b>p.P190fs*57</b>
<b>TP53</b>	NM_000546	45322	c.757A>G	<b>p.T253A</b>
<b>TP53</b>	NM_000546	45326	c.530C>A	<b>p.P177H</b>
<b>TP53</b>	NM_000546	45329	c.710T>C	<b>p.M237T</b>
<b>TP53</b>	NM_000546	45332	c.885T>C	<b>p.P295P</b>
<b>TP53</b>	NM_000546	45338	c.552T>C	<b>p.D184D</b>
<b>TP53</b>	NM_000546	45341	c.571delC	<b>p.P191fs*56</b>
<b>TP53</b>	NM_000546	45342	c.500A>T	<b>p.Q167L</b>
<b>TP53</b>	NM_000546	45364	c.376-1delG	<b>p.?</b>
<b>TP53</b>	NM_000546	45372	c.540G>T	<b>p.E180D</b>
<b>TP53</b>	NM_000546	45393	c.793C>A	<b>p.L265M</b>
<b>TP53</b>	NM_000546	45394	c.687T>A	<b>p.C229*</b>
<b>TP53</b>	NM_000546	45399	c.526_543del18	<b>p.C176_R181delCP HHER</b>
<b>TP53</b>	NM_000546	45407	c.751A>G	<b>p.I251V</b>
<b>TP53</b>	NM_000546	45410	c.733_734GG>AA	<b>p.G245N</b>
<b>TP53</b>	NM_000546	45411	c.489C>A	<b>p.Y163*</b>
<b>TP53</b>	NM_000546	45413	c.824G>C	<b>p.C275S</b>
<b>TP53</b>	NM_000546	45416	c.524G>C	<b>p.R175P</b>
<b>TP53</b>	NM_000546	45417	c.877G>A	<b>p.G293R</b>
<b>TP53</b>	NM_000546	45438	c.626delG	<b>p.R209fs*38</b>
<b>TP53</b>	NM_000546	45440	c.567C>T	<b>p.A189A</b>
<b>TP53</b>	NM_000546	45441	c.629A>G	<b>p.N210S</b>
<b>TP53</b>	NM_000546	45446	c.865C>T	<b>p.L289F</b>
<b>TP53</b>	NM_000546	45449	c.592G>C	<b>p.E198Q</b>
<b>TP53</b>	NM_000546	45459	c.862delA	<b>p.N288fs*57</b>
<b>TP53</b>	NM_000546	45467	c.826G>T	<b>p.A276S</b>
<b>TP53</b>	NM_000546	45479	c.504C>T	<b>p.H168H</b>
<b>TP53</b>	NM_000546	45487	c.898delC	<b>p.P301fs*44</b>
<b>TP53</b>	NM_000546	45488	c.797G>C	<b>p.G266A</b>
<b>TP53</b>	NM_000546	45489	c.603G>T	<b>p.L201F</b>
<b>TP53</b>	NM_000546	45490	c.507G>T	<b>p.M169I</b>
<b>TP53</b>	NM_000546	45491	c.822T>G	<b>p.V274V</b>
<b>TP53</b>	NM_000546	45494	c.888_889CC>TT	<b>p.H297Y</b>
<b>TP53</b>	NM_000546	45500	c.281C>A	<b>p.S94*</b>
<b>TP53</b>	NM_000546	45505	c.455C>G	<b>p.P152R</b>
<b>TP53</b>	NM_000546	45506	c.460_461GG>AT	<b>p.G154I</b>
<b>TP53</b>	NM_000546	45507	c.806G>C	<b>p.S269T</b>
<b>TP53</b>	NM_000546	45509	c.321C>T	<b>p.Y107Y</b>
<b>TP53</b>	NM_000546	45511	c.645T>C	<b>p.S215S</b>
<b>TP53</b>	NM_000546	45515	c.525C>T	<b>p.R175R</b>
<b>TP53</b>	NM_000546	45516	c.662A>G	<b>p.E221G</b>
<b>TP53</b>	NM_000546	45519	c.620A>G	<b>p.D207G</b>
<b>TP53</b>	NM_000546	45529	c.683A>T	<b>p.D228V</b>
<b>TP53</b>	NM_000546	45534	c.882G>T	<b>p.E294D</b>
<b>TP53</b>	NM_000546	45536	c.1061A>G	<b>p.Q354R</b>
<b>TP53</b>	NM_000546	45541	c.510G>T	<b>p.T170T</b>
<b>TP53</b>	NM_000546	45543	c.743_744GG>TT	<b>p.R248L</b>
<b>TP53</b>	NM_000546	45546	c.901delC	<b>p.P301fs*44</b>
<b>TP53</b>	NM_000546	45548	c.721_723delTCC	<b>p.S241del</b>

TP53	NM_000546	45551	c.469_471delGTC	p.V157del
TP53	NM_000546	45562	c.546C>A	p.C182*
TP53	NM_000546	45583	c.514_559del46	p.V173fs*59
TP53	NM_000546	45586	c.397delA	p.M133fs*37
TP53	NM_000546	45594	c.453C>G	p.P151P
TP53	NM_000546	45607	c.676G>A	p.G226S
TP53	NM_000546	45611	c.876A>C	p.K292N
TP53	NM_000546	45612	c.685T>C	p.C229R
TP53	NM_000546	45620	c.704A>C	p.N235T
TP53	NM_000546	45622	c.461G>A	p.G154D
TP53	NM_000546	45626	c.501G>T	p.Q167H
TP53	NM_000546	45627	c.486C>T	p.I162I
TP53	NM_000546	45631	c.688A>T	p.T230S
TP53	NM_000546	45632	c.741C>A	p.N247K
TP53	NM_000546	45639	c.1024delC	p.R342fs*3
TP53	NM_000546	45647	c.760A>T	p.I254F
TP53	NM_000546	45649	c.854A>G	p.E285G
TP53	NM_000546	45654	c.685_699del15	p.C229_H233delICT TIH
TP53	NM_000546	45660	c.457C>A	p.P153T
TP53	NM_000546	45670	c.877delG	p.E294fs*51
TP53	NM_000546	45671	c.521G>T	p.R174M
TP53	NM_000546	45672	c.376-2A>G	p.?
TP53	NM_000546	45674	c.480G>T	p.M160I
TP53	NM_000546	45677	c.714T>A	p.C238*
TP53	NM_000546	45679	c.868C>T	p.R290C
TP53	NM_000546	45685	c.613T>A	p.Y205N
TP53	NM_000546	45688	c.867C>T	p.L289L
TP53	NM_000546	45691	c.726C>T	p.C242C
TP53	NM_000546	45695	c.827C>G	p.A276G
TP53	NM_000546	45703	c.634T>A	p.F212I
TP53	NM_000546	45706	c.801G>T	p.R267R
TP53	NM_000546	45707	c.624C>A	p.D208E
TP53	NM_000546	45711	c.559+2T>G	p.?
TP53	NM_000546	45728	c.850A>G	p.T284A
TP53	NM_000546	45729	c.842A>T	p.D281V
TP53	NM_000546	45735	c.744G>C	p.R248R
TP53	NM_000546	45739	c.677G>C	p.G226A
TP53	NM_000546	45751	c.511G>C	p.E171Q
TP53	NM_000546	45777	c.633delT	p.R213fs*34
TP53	NM_000546	45784	c.691delA	p.T231fs*16
TP53	NM_000546	45786	c.682G>T	p.D228Y
TP53	NM_000546	45796	c.623A>G	p.D208G
TP53	NM_000546	45801	c.312delG	p.G105fs*18
TP53	NM_000546	45803	c.889C>T	p.H297Y
TP53	NM_000546	45809	c.376-1G>C	p.?
TP53	NM_000546	45820	c.893A>T	p.E298V
TP53	NM_000546	45823	c.558T>C	p.D186D
TP53	NM_000546	45824	c.880G>C	p.E294Q
TP53	NM_000546	45838	c.556delG	p.D186fs*61
TP53	NM_000546	45843	c.838_843delAGAGAC	p.R280_D281delRD
TP53	NM_000546	45851	c.624C>G	p.D208E
TP53	NM_000546	45862	c.710delT	p.M237fs*10
TP53	NM_000546	45868	c.678C>T	p.G226G
TP53	NM_000546	45870	c.715A>T	p.N239Y
TP53	NM_000546	45882	c.391delA	p.N131fs*39

TP53	NM_000546	45891	c.847_866del20	p.R283fs*16
TP53	NM_000546	45896	c.466delC	p.R156fs*14
TP53	NM_000546	45898	c.814G>C	p.V272L
TP53	NM_000546	45906	c.514delG	p.V172fs*2
TP53	NM_000546	45918	c.253C>T	p.P85S
TP53	NM_000546	45944	c.318C>G	p.S106R
TP53	NM_000546	45959	c.698A>T	p.H233L
TP53	NM_000546	45980	c.757A>C	p.T253P
TP53	NM_000546	45985	c.215G>A	p.R72H
TP53	NM_000546	45992	c.736A>T	p.M246L
TP53	NM_000546	45995	c.626G>A	p.R209K
TP53	NM_000546	45998	c.906G>C	p.G302G
TP53	NM_000546	46000	c.643A>C	p.S215R
TP53	NM_000546	46001	c.466_486del21	p.R156_I162delRVR AMAI
TP53	NM_000546	46015	c.1043T>A	p.L348*
TP53	NM_000546	46031	c.697C>G	p.H233D
TP53	NM_000546	46032	c.836G>T	p.G279V
TP53	NM_000546	46035	c.847C>G	p.R283G
TP53	NM_000546	46049	c.376-2A>C	p.?
TP53	NM_000546	46059	c.560-3T>G	p.?
TP53	NM_000546	46074	c.604C>T	p.R202C
TP53	NM_000546	46095	c.511delG	p.E171fs*3
TP53	NM_000546	46103	c.319T>G	p.Y107D
TP53	NM_000546	46107	c.599A>T	p.N200I
TP53	NM_000546	46114	c.389T>A	p.L130H
TP53	NM_000546	46115	c.329G>A	p.R110H
TP53	NM_000546	46124	c.466C>T	p.R156C
TP53	NM_000546	46131	c.380delC	p.P128fs*42
TP53	NM_000546	46136	c.738G>T	p.M246I
TP53	NM_000546	46163	c.534C>G	p.H178Q
TP53	NM_000546	46207	c.910A>G	p.T304A
TP53	NM_000546	46208	c.859_872del14	p.N288fs*13
TP53	NM_000546	46211	c.633T>C	p.T211T
TP53	NM_000546	46212	c.589G>T	p.V197L
TP53	NM_000546	46214	c.635T>C	p.F212S
TP53	NM_000546	46224	c.873G>A	p.K291K
TP53	NM_000546	46228	c.729G>C	p.M243I
TP53	NM_000546	46265	c.224C>G	p.P75R
TP53	NM_000546	46284	c.837G>A	p.G279G
TP53	NM_000546	46288	c.546C>T	p.C182C
TP53	NM_000546	46336	c.712T>G	p.C238G
TP53	NM_000546	46348	c.1044G>T	p.L348F
TP53	NM_000546	46393	c.520_536del17	p.R174fs*1
TP53	NM_000546	51646	c.498_499insC	p.Q167fs*14
TP53	NM_000546	53285	c.379T>A	p.S127T
TP53	NM_000546	6482	c.625_626delAG	p.R209fs*6
TP53	NM_000546	6496	c.652_654delGTG	p.V218del
TP53	NM_000546	6530	c.723delC	p.C242fs*5
TP53	NM_000546	6545	c.741_742CC>TT	p.R248W
TP53	NM_000546	6546	c.741_742CC>AT	p.N247_R248>KW
TP53	NM_000546	6549	c.743G>T	p.R248L
TP53	NM_000546	6621	c.880delG	p.E294fs*51
TP53	NM_000546	6815	c.461G>T	p.G154V
TP53	NM_000546	6900	c.376-1G>A	p.?
TP53	NM_000546	6901	c.559+1G>A	p.?



<b>TP53</b>	NM_000546	69195	c.714_715insT	<b>p.N239fs*1</b>
<b>TP53</b>	NM_000546	6932	c.733G>A	<b>p.G245S</b>
<b>TP53</b>	NM_000546	85574	c.291_295delCCCTT	<b>p.S99fs*48</b>
<b>TP53</b>	NM_000546	87513	c.902_903insC	<b>p.G302fs*4</b>
<b>TP53</b>	NM_000546	96575	c.625_634del10	<b>p.R209fs*35</b>
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	111498	c.532delC	<b>p.H178fs*69</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	111724	c.572_574delCTC	<b>p.P191delP</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	116674	c.707A>G	<b>p.Y236C</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	117398	c.527G>T	<b>p.C176F</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	117949	c.574C>T	<b>p.Q192*</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	118013	c.592G>T	<b>p.E198*</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	120007	c.742C>T	<b>p.R248W</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	121035	c.733G>A	<b>p.G245S</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	121042	c.517G>C	<b>p.V173L</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	126981	c.880G>T	<b>p.E294*</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	129830	c.839G>A	<b>p.R280K</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	129831	c.833C>T	<b>p.P278L</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	129848	c.535C>T	<b>p.H179Y</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	129852	c.488A>G	<b>p.Y163C</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	129856	c.455C>T	<b>p.P152L</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	131478	c.747G>T	<b>p.R249S</b>
<b>05</b>				
<b>TP53_ENST</b>				
<b>000002693</b>	ENST00000269305	131480	c.469G>T	<b>p.V157F</b>
<b>05</b>				

TP53_ENST 000002693 05	ENST00000269305	131534	c.559+1G>A	p.?
TP53_ENST 000002693 05	ENST00000269305	137087	c.853G>A	p.E285K
TP53_ENST 000002693 05	ENST00000269305	139044	c.832C>T	p.P278S
TP53_ENST 000002693 05	ENST00000269305	165073	c.701A>G	p.Y234C
TP53_ENST 000002693 05	ENST00000269305	165075	c.820G>T	p.V274F
TP53_ENST 000002693 05	ENST00000269305	165084	c.824G>A	p.C275Y
TP53_ENST 000002693 05	ENST00000269305	179804	c.799C>T	p.R267W
TP53_ENST 000002693 05	ENST00000269305	179806	c.734G>A	p.G245D
TP53_ENST 000002693 05	ENST00000269305	179823	c.528C>A	p.C176*
TP53_ENST 000002693 05	ENST00000269305	220766	c.319T>G	p.Y107D
TP53_ENST 000002693 05	ENST00000269305	220779	c.473G>A	p.R158H
TP53_ENST 000002693 05	ENST00000269305	220783	c.376T>G	p.Y126D
TP53_ENST 000002693 05	ENST00000269305	241998	c.638G>T	p.R213L
TP53_ENST 000002693 05	ENST00000269305	99601	c.404G>A	p.C135Y
TP53_ENST 000002693 05	ENST00000269305	99602	c.743G>A	p.R248Q
TP53_ENST 000002693 05	ENST00000269305	99618	c.637C>T	p.R213*
TP53_ENST 000002693 05	ENST00000269305	99626	c.713G>T	p.C238F
TP53_ENST 000002693 05	ENST00000269305	99641	c.517G>T	p.V173L
TP53_ENST 000002693	ENST00000269305	99648	c.711G>A	p.M237I

05	TP53_ENST	000002693	ENST00000269305	99668	c.586C>T	p.R196*
05	TP53_ENST	000002693	ENST00000269305	99720	c.659A>G	p.Y220C
05	TP53_ENST	000002693	ENST00000269305	99721	c.1024C>T	p.R342*
05	TP53_ENST	000002693	ENST00000269305	99725	c.832C>G	p.P278A
05	TP53_ENST	000002693	ENST00000269305	99729	c.818G>A	p.R273H
05	TP53_ENST	000002693	ENST00000269305	99914	c.524G>A	p.R175H
05	TP53_ENST	000002693	ENST00000269305	99919	c.578A>T	p.H193L
05	TP53_ENST	000002693	ENST00000269305	99924	c.856G>A	p.E286K
05	TP53_ENST	000002693	ENST00000269305	99925	c.844C>T	p.R282W
05	TP53_ENST	000002693	ENST00000269305	99929	c.329G>T	p.R110L
05	TP53_ENST	000002693	ENST00000269305	99932	c.824G>T	p.C275F
05	TP53_ENST	000002693	ENST00000269305	99933	c.817C>T	p.R273C
05	TP53_ENST	000002693	ENST00000269305	99946	c.378C>G	p.Y126*
05	TP53_ENST	000002693	ENST00000269305	99947	c.916C>T	p.R306*
05	TP53_ENST	000002693	ENST00000269305	99950	c.814G>A	p.V272M
05	TP53_ENST	000002693	ENST00000269305	99952	c.797G>T	p.G266V
65	TP53_ENST	000004134	ENST00000413465	111495	c.532delC	p.H178fs*69
65	TP53_ENST	000004134	ENST00000413465	111721	c.572_574delCTC	p.P191delP
65	TP53_ENST	000004134	ENST00000413465	116672	c.707A>G	p.Y236C

000004134 65 TP53_ENST	ENST00000413465	117395	c.527G>T	p.C176F
000004134 65 TP53_ENST	ENST00000413465	117946	c.574C>T	p.Q192*
000004134 65 TP53_ENST	ENST00000413465	118010	c.592G>T	p.E198*
000004134 65 TP53_ENST	ENST00000413465	120005	c.742C>T	p.R248W
000004134 65 TP53_ENST	ENST00000413465	121036	c.733G>A	p.G245S
000004134 65 TP53_ENST	ENST00000413465	121043	c.517G>C	p.V173L
000004134 65 TP53_ENST	ENST00000413465	129849	c.535C>T	p.H179Y
000004134 65 TP53_ENST	ENST00000413465	129853	c.488A>G	p.Y163C
000004134 65 TP53_ENST	ENST00000413465	129857	c.455C>T	p.P152L
000004134 65 TP53_ENST	ENST00000413465	131479	c.747G>T	p.R249S
000004134 65 TP53_ENST	ENST00000413465	131481	c.469G>T	p.V157F
000004134 65 TP53_ENST	ENST00000413465	131535	c.559+1G>A	p.?
000004134 65 TP53_ENST	ENST00000413465	165072	c.701A>G	p.Y234C
000004134 65 TP53_ENST	ENST00000413465	179805	c.734G>A	p.G245D
000004134 65 TP53_ENST	ENST00000413465	179822	c.528C>A	p.C176*
000004134 65 TP53_ENST	ENST00000413465	220765	c.319T>G	p.Y107D
000004134 65 TP53_ENST	ENST00000413465	220778	c.473G>A	p.R158H
000004134 65 TP53_ENST	ENST00000413465	220782	c.376T>G	p.Y126D

<b>TP53_ENST 000004134 65</b>	ENST00000413465	241997	c.638G>T	<b>p.R213L</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	98964	c.517G>A	<b>p.V173M</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99020	c.743G>A	<b>p.R248Q</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99022	c.524G>A	<b>p.R175H</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99598	c.404G>A	<b>p.C135Y</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99615	c.637C>T	<b>p.R213*</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99624	c.713G>T	<b>p.C238F</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99638	c.517G>T	<b>p.V173L</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99646	c.711G>A	<b>p.M237I</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99665	c.586C>T	<b>p.R196*</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99718	c.659A>G	<b>p.Y220C</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99916	c.578A>T	<b>p.H193L</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99928	c.329G>T	<b>p.R110L</b>
<b>TP53_ENST 000004134 65</b>	ENST00000413465	99944	c.378C>G	<b>p.Y126*</b>
<b>TP53_ENST 000004143 15</b>	ENST00000414315	111496	c.136delC	<b>p.H46fs*&gt;45</b>
<b>TP53_ENST 000004143 15</b>	ENST00000414315	111722	c.176_178delCTC	<b>p.P59delP</b>
<b>TP53_ENST 000004143 15</b>	ENST00000414315	117396	c.131G>T	<b>p.C44F</b>
<b>TP53_ENST 000004143 15</b>	ENST00000414315	117947	c.178C>T	<b>p.Q60*</b>
<b>TP53_ENST 000004143</b>	ENST00000414315	118011	c.196G>T	<b>p.E66*</b>

15	TP53_ENST				
000004143	ENST00000414315	121045	c.121G>C		<b>p.V41L</b>
15	TP53_ENST				
000004143	ENST00000414315	129851	c.139C>T		<b>p.H47Y</b>
15	TP53_ENST				
000004143	ENST00000414315	129855	c.92A>G		<b>p.Y31C</b>
15	TP53_ENST				
000004143	ENST00000414315	129859	c.59C>T		<b>p.P20L</b>
15	TP53_ENST				
000004143	ENST00000414315	131483	c.73G>T		<b>p.V25F</b>
15	TP53_ENST				
000004143	ENST00000414315	131537	c.163+1G>A		<b>p.?</b>
15	TP53_ENST				
000004143	ENST00000414315	179824	c.132C>A		<b>p.C44*</b>
15	TP53_ENST				
000004143	ENST00000414315	220780	c.77G>A		<b>p.R26H</b>
15	TP53_ENST				
000004143	ENST00000414315	241999	c.242G>T		<b>p.R81L</b>
15	TP53_ENST				
000004143	ENST00000414315	98965	c.121G>A		<b>p.V41M</b>
15	TP53_ENST				
000004143	ENST00000414315	99023	c.128G>A		<b>p.R43H</b>
15	TP53_ENST				
000004143	ENST00000414315	99599	c.8G>A		<b>p.C3Y</b>
15	TP53_ENST				
000004143	ENST00000414315	99616	c.241C>T		<b>p.R81*</b>
15	TP53_ENST				
000004143	ENST00000414315	99639	c.121G>T		<b>p.V41L</b>
15	TP53_ENST				
000004143	ENST00000414315	99666	c.190C>T		<b>p.R64*</b>
15	TP53_ENST				
000004143	ENST00000414315	99917	c.182A>T		<b>p.H61L</b>
15	TP53_ENST				
000005458	ENST00000545858	111497	c.253delC		<b>p.H85fs*69</b>
58	TP53_ENST				
000005458	ENST00000545858	111723	c.293_295delCTC		<b>p.P98delP</b>
58	TP53_ENST				
000005458	ENST00000545858	116673	c.428A>G		<b>p.Y143C</b>

000005458 58 TP53_ENST	ENST00000545858	117397	c.248G>T	p.C83F
000005458 58 TP53_ENST	ENST00000545858	117948	c.295C>T	p.Q99*
000005458 58 TP53_ENST	ENST00000545858	118012	c.313G>T	p.E105*
000005458 58 TP53_ENST	ENST00000545858	120006	c.463C>T	p.R155W
000005458 58 TP53_ENST	ENST00000545858	121037	c.454G>A	p.G152S
000005458 58 TP53_ENST	ENST00000545858	121044	c.238G>C	p.V80L
000005458 58 TP53_ENST	ENST00000545858	129850	c.256C>T	p.H86Y
000005458 58 TP53_ENST	ENST00000545858	129854	c.209A>G	p.Y70C
000005458 58 TP53_ENST	ENST00000545858	129858	c.176C>T	p.P59L
000005458 58 TP53_ENST	ENST00000545858	131482	c.190G>T	p.V64F
000005458 58 TP53_ENST	ENST00000545858	131536	c.280+1G>A	p.?
000005458 58 TP53_ENST	ENST00000545858	165074	c.422A>G	p.Y141C
000005458 58 TP53_ENST	ENST00000545858	179807	c.455G>A	p.G152D
000005458 58 TP53_ENST	ENST00000545858	179825	c.249C>A	p.C83*
000005458 58 TP53_ENST	ENST00000545858	220781	c.194G>A	p.R65H
000005458 58 TP53_ENST	ENST00000545858	220784	c.97T>G	p.Y33D
000005458 58 TP53_ENST	ENST00000545858	242000	c.359G>T	p.R120L
000005458 58 TP53_ENST	ENST00000545858	98966	c.238G>A	p.V80M

<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99021	c.464G>A	<b>p.R155Q</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99024	c.245G>A	<b>p.R82H</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99600	c.125G>A	<b>p.C42Y</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99617	c.358C>T	<b>p.R120*</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99625	c.434G>T	<b>p.C145F</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99640	c.238G>T	<b>p.V80L</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99647	c.432G>A	<b>p.M144I</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99667	c.307C>T	<b>p.R103*</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99719	c.380A>G	<b>p.Y127C</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99918	c.299A>T	<b>p.H100L</b>
<b>TP53_ENST</b> <b>000005458</b> <b>58</b>	ENST00000545858	99945	c.99C>G	<b>p.Y33*</b>
<b>VHL</b>	NM_000551.2	14279	c.405delA	<b>p.L135fs*24</b>
<b>VHL</b>	NM_000551.2	14284	c.429C>G	<b>p.D143E</b>
<b>VHL</b>	NM_000551.2	14302	c.391delA	<b>p.N131fs*28</b>
<b>VHL</b>	NM_000551.2	14305	c.266T>A	<b>p.L89H</b>
<b>VHL</b>	NM_000551.2	14307	c.496G>A	<b>p.V166I</b>
<b>VHL</b>	NM_000551.2	14309	c.478G>A	<b>p.E160K</b>
<b>VHL</b>	NM_000551.2	14310	c.349T>C	<b>p.W117R</b>
<b>VHL</b>	NM_000551.2	14311	c.499C>T	<b>p.R167W</b>
<b>VHL</b>	NM_000551.2	14312	c.353T>C	<b>p.L118P</b>
<b>VHL</b>	NM_000551.2	14325	c.294C>G	<b>p.Y98*</b>
<b>VHL</b>	NM_000551.2	14328	c.351G>T	<b>p.W117C</b>
<b>VHL</b>	NM_000551.2	14346	c.266T>C	<b>p.L89P</b>
<b>VHL</b>	NM_000551.2	14348	c.301C>T	<b>p.L101L</b>
<b>VHL</b>	NM_000551.2	14349	c.259_264delGTATGG	<b>p.V87_W88del</b>
<b>VHL</b>	NM_000551.2	14355	c.488T>C	<b>p.L163P</b>
<b>VHL</b>	NM_000551.2	14356	c.394C>T	<b>p.Q132*</b>
<b>VHL</b>	NM_000551.2	14362	c.383T>G	<b>p.L128R</b>
<b>VHL</b>	NM_000551.2	14368	c.473T>A	<b>p.L158Q</b>
<b>VHL</b>	NM_000551.2	14373	c.400G>T	<b>p.E134*</b>
<b>VHL</b>	NM_000551.2	14374	c.513G>C	<b>p.K171N</b>
<b>VHL</b>	NM_000551.2	14375	c.343C>T	<b>p.H115Y</b>
<b>VHL</b>	NM_000551.2	14376	c.464-1G>A	<b>p.?</b>
<b>VHL</b>	NM_000551.2	14382	c.245G>C	<b>p.R82P</b>



VHL	NM_000551.2	14383	c.413C>G	p.P138R
VHL	NM_000551.2	14386	c.309delT	p.G104fs*55
VHL	NM_000551.2	14387	c.473T>C	p.L158P
VHL	NM_000551.2	14390	c.269A>T	p.N90I
VHL	NM_000551.2	14391	c.469delA	p.T157fs*2
VHL	NM_000551.2	14392	c.377A>G	p.D126G
VHL	NM_000551.2	14393	c.311delG	p.G104fs*55
VHL	NM_000551.2	14397	c.490C>T	p.Q164*
VHL	NM_000551.2	14399	c.351G>A	p.W117*
VHL	NM_000551.2	14404	c.266T>G	p.L89R
VHL	NM_000551.2	14405	c.257C>A	p.P86H
VHL	NM_000551.2	14406	c.404delT	p.L135fs*24
VHL	NM_000551.2	14407	c.388G>C	p.V130L
VHL	NM_000551.2	14408	c.485G>A	p.C162Y
VHL	NM_000551.2	14410	c.440delT	p.F148fs*11
VHL	NM_000551.2	14412	c.431delG	p.G144fs*15
VHL	NM_000551.2	14413	c.426_429delTGAC	p.G144fs*14
VHL	NM_000551.2	14414	c.310delG	p.G104fs*55
VHL	NM_000551.2	14415	c.381delG	p.L128fs*31
VHL	NM_000551.2	14419	c.488delT	p.L163fs*7
VHL	NM_000551.2	14437	c.464-1G>C	p.?
VHL	NM_000551.2	144971	c.244C>G	p.R82G
VHL	NM_000551.2	17612	c.481C>T	p.R161*
VHL	NM_000551.2	17644	c.363T>G	p.D121E
VHL	NM_000551.2	17647	c.414delA	p.S139fs*20
VHL	NM_000551.2	17648	c.423delT	p.N141fs*18
VHL	NM_000551.2	17649	c.436delC	p.P146fs*13
VHL	NM_000551.2	17657	c.472C>G	p.L158V
VHL	NM_000551.2	17658	c.286C>T	p.Q96*
VHL	NM_000551.2	17662	c.492G>T	p.Q164H
VHL	NM_000551.2	17676	c.498delC	p.R167fs*3
VHL	NM_000551.2	17678	c.344delA	p.H115fs*44
VHL	NM_000551.2	17699	c.284C>G	p.P95R
VHL	NM_000551.2	17721	c.241C>T	p.P81S
VHL	NM_000551.2	17735	c.444delT	p.F148fs*11
VHL	NM_000551.2	17752	c.343C>A	p.H115N
VHL	NM_000551.2	17757	c.390delT	p.N131fs*28
VHL	NM_000551.2	17759	c.393_396delCCAA	p.N131fs*27
VHL	NM_000551.2	17764	c.408delT	p.F136fs*23
VHL	NM_000551.2	17765	c.409delG	p.V137fs*22
VHL	NM_000551.2	17767	c.417T>A	p.S139S
VHL	NM_000551.2	17769	c.437delC	p.P146fs*13
VHL	NM_000551.2	17770	c.501delG	p.S168fs*2
VHL	NM_000551.2	17786	c.497T>G	p.V166G
VHL	NM_000551.2	17805	c.471T>A	p.T157T
VHL	NM_000551.2	17807	c.264G>C	p.W88C
VHL	NM_000551.2	17837	c.506T>C	p.L169P
VHL	NM_000551.2	17844	c.464delT	p.V155fs*4
VHL	NM_000551.2	17857	c.395delA	p.T133fs*26
VHL	NM_000551.2	17859	c.254T>C	p.L85P
VHL	NM_000551.2	17862	c.350G>A	p.W117*
VHL	NM_000551.2	17881	c.262T>A	p.W88R
VHL	NM_000551.2	17882	c.269delA	p.N90fs*69
VHL	NM_000551.2	17885	c.293A>T	p.Y98F
VHL	NM_000551.2	17886	c.296delC	p.P99fs*60
VHL	NM_000551.2	17895	c.369delG	p.T124fs*35

VHL	NM_000551.2	17904	c.422_423insA	p.N141fs*3
VHL	NM_000551.2	17909	c.482G>C	p.R161P
VHL	NM_000551.2	17913	c.497T>A	p.V166D
VHL	NM_000551.2	17953	c.262T>C	p.W88R
VHL	NM_000551.2	17956	c.291delC	p.Y98fs*61
VHL	NM_000551.2	17958	c.294C>A	p.Y98*
VHL	NM_000551.2	17967	c.365C>A	p.A122E
VHL	NM_000551.2	17974	c.438T>C	p.P146P
VHL	NM_000551.2	17982	c.496G>T	p.V166F
VHL	NM_000551.2	17983	c.500G>A	p.R167Q
VHL	NM_000551.2	17988	c.341-1G>T	p.?
VHL	NM_000551.2	18009	c.362A>G	p.D121G
VHL	NM_000551.2	18014	c.405_406insT	p.V137fs*7
VHL	NM_000551.2	18022	c.357C>G	p.F119L
VHL	NM_000551.2	18023	c.486C>G	p.C162W
VHL	NM_000551.2	18025	c.470C>T	p.T157I
VHL	NM_000551.2	18028	c.257C>T	p.P86L
VHL	NM_000551.2	18051	c.424delG	p.V142fs*17
VHL	NM_000551.2	18059	c.406delT	p.F136fs*23
VHL	NM_000551.2	18070	c.263G>A	p.W88*
VHL	NM_000551.2	18073	c.484T>C	p.C162R
VHL	NM_000551.2	18075	c.478G>T	p.E160*
VHL	NM_000551.2	18080	c.277G>C	p.G93R
VHL	NM_000551.2	18192	c.350G>T	p.W117L
VHL	NM_000551.2	18212	c.491A>C	p.Q164P
VHL	NM_000551.2	18215	c.426delT	p.V142fs*17
VHL	NM_000551.2	18255	c.302T>C	p.L101P
VHL	NM_000551.2	18276	c.406T>G	p.F136V
VHL	NM_000551.2	18286	c.390_391insT	p.N131fs*2
VHL	NM_000551.2	18290	c.341-1G>A	p.?
VHL	NM_000551.2	18346	c.341G>C	p.G114A
VHL	NM_000551.2	18350	c.256C>T	p.P86S
VHL	NM_000551.2	18379	c.505C>T	p.L169L
VHL	NM_000551.2	18415	c.263G>C	p.W88S
VHL	NM_000551.2	22469	c.467delA	p.Y156fs*3
VHL	NM_000551.2	249586	c.412_425delCCATCTCTCAAT GT	p.P138fs*1
VHL	NM_000551.2	25675	c.464-1G>T	p.?
VHL	NM_000551.2	25676	c.485G>T	p.C162F
VHL	NM_000551.2	25682	c.430G>T	p.G144*
VHL	NM_000551.2	25719	c.383T>C	p.L128P
VHL	NM_000551.2	25720	c.393C>G	p.N131K
VHL	NM_000551.2	26785	c.263delG	p.W88fs*71
VHL	NM_000551.2	30295	c.341-2A>G	p.?
VHL	NM_000551.2	34019	c.361G>T	p.D121Y
VHL	NM_000551.2	34030	c.477delA	p.E160fs*10