ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
B19-04468	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-Function	COSM521	11,4	43,0	p.Gly12Asp	379	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
B19-04468	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,3	33,0	p.Leu114Val	524	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
B19-04468	TP53	chr17:7578499	T/A	SNV	1			COSM43783	5,5	51,0	p.Gln144Leu	931	5	NM_000546,5	c.431A>T	missense	0,67	0,98(COSM43783)	Likely pathogenic	0,00001
B19-06245	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-Function	COSM521	5,6	13,0	p.Gly12Asp	232	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,01242
B19-09926	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	5,9	90,0	p.Leu114Val	1523	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
B19-09926	PTEN	chr10:89717767	G/A	SNV	1			COSM5351742	5,6	34,0	p.Met264Ile	603	7	NM_000314,6	c.792G>A	missense	0,007	0,99(COSM5351742)		0,00001
B20-00103	APC	chr5:112175769	GGAA/GAA	INDEL	1	Deleterious	Loss-of-Function	COSM19626	9,7	35,0	p.Glu1494LysfsTer13	360	16	NM_000038,5	c.4480delG	frameshiftDeletion		1,00COSM19626		0,00001
B20-00103	APC	chr5:112175558	C/T	SNV	1			COSM6196801	5,1	14,0	p.Leu1423Phe	273	16	NM_000038,5	c.4267C>T	missense	0,999	0,92(COSM6196801)		0,00471
B20-00103	ATM	chr11:108236204	G/A	SNV	1			COSM1351063	7,2	32,0	p.Arg3047Gln	445	63	NM_000051,3	c.9140G>A	missense	0,65	0,96(COSM1351063)	Uncertain significance	0,00001
B20-00103	CDH1	chr16:68849586	G/A	SNV	1			COSM1247778	5,2	42,0	p.Glu497Lys	805	10	NM_004360,4	c.1489G>A	missense	1	1,00(COSM1,00247778)		0,00001
B20-00103	CDKN2A	chr9:21971116	G/C	SNV	1			COSM6985959	10,1	36,0	p.Pro81Arg	358	2	NM_001195132,1	c.242C>G	missense	1	0,98(COSM6985959)	Uncertain significance	0,00001
B20-00103	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-Function	COSM521	11,9	21,0	p.Gly12Asp	177	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
B20-00103	KRAS	chr12:25398267	C/T	SNV	1			COSM541	6,1	11,0	p.Ala18Thr	180	2	NM_033360,3	c.52G>A	missense	0,995	0,98(COSM541)		0,00268
B20-00103	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	5,8	29,0	p.Leu114Val	503	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00002
B20-00103	PIK3CA	chr3:178937004	C/T	SNV	1			COSM9630050	6,4	29,0	p.Pro562Leu	456	11	NM_006218,3	c.1685C>T	missense	1	0,97(COSM9630050)		0,00001
B20-00103	RB1	chr13:49039236	G/T	SNV	1			COSM348849	6,0	34,0	p.Ala772Ser	569	22	NM_000321,2	c.2314G>T	missense	0,686	0,98(COSM348849)		0,00001
B20-02060	PIK3CA	chr3:178936091	G/A	SNV	1	Hotspot	Gain-of-Function	COSM763	6,4	128,0	p.Glu545Lys	2000	10	NM_006218,3	c.1633G>A	missense	0,991	0,97(COSM763)	Pathogenic/Likely pathogenic	0,00001
B20-02240	KRAS	chr12:25398284	CC/AC	SNV	1	Hotspot	Gain-of-Function	COSM520	8,6	17,0	p.Gly12Val	197	2	NM_033360,3	c.35G>T	missense	0,999	0,98(COSM520)	Pathogenic	0,00005
B20-02240	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	5,1	15,0	p.Leu114Val	292	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00363
B20-02240	POLE	chr12:133220098	CCA/C	INDEL	2	Deleterious	Loss-of-Function	COSM1745059	6,7	21,0	p.Val1446GlyfsTer3	315	34	NM_006231,3	c.4337_4338delTG	frameshiftDeletion		1,00(COSM1745059)	Uncertain significance	0,00027
S14-00921	APC	chr5:112173848	G/A	SNV	1			COSM6475562	20,2	21,0	p.Glu853Lys	104	16	NM_000038,5	c.2557G>A	missense	0,094	0,99(COSM6475562)	Uncertain significance	0,00001
S14-00921	APC	chr5:112175174	G/A	SNV	1			COSM7134556	6,9	17,0	p.Glu1295Lys	247	16	NM_000038,5	c.3883G>A	missense	0,029	0,82(COSM7134556)		0,00008
S14-00921	APC	chr5:112174047	G/T	SNV	1			COSM4166215	8,5	11,0	p.Arg919Ile	129	16	NM_000038,5	c.2756G>T	missense	0,991	0,90(COSM4166215)		0,00017
S14-00921	ARID2	chr12:46215212	C/T	SNV	1			COSM3460961	5,9	28,0	p.Ser216Phe	478	6	NM_152641,3	c.647C>T	missense	0,998	0,96(COSM3460961)		0,00002
S14-00921	ARID2	chr12:46287447	G/A	SNV	1			COSM4663274	14,7	28,0	p.Arg1769Gln	191	20	NM_152641,3	c.5306G>A	missense	1	0,96(COSM4663274)		0,00001
S14-00921	ARID2	chr12:46245720	C/T	SNV	1	Deleterious	Loss-of-function	COSM4041992	8,8	23,0	p.Arg1272Ter	261	15	NM_152641,3	c.3814C>T	nonsense		0,94(COSM4041992)		0,00001
S14-00921	ARID2	chr12:46287315	C/T	SNV	1	Deleterious	Loss-of-function	COSM1628614	11,9	17,0	p.Arg1754Ter	143	19	NM_152641,3	c.5260C>T	nonsense		0,90(COSM1628614)		0,00001
S14-00921	ARID2	chr12:46205217	G/A	SNV	1			COSM6939540	9,9	10,0	p.Glu101Lys	101	4	NM_152641,3	c.301G>A	missense	1	1,00(COSM6939540)		0,00012
S14-00921	ATM	chr11:108106519	G/A	SNV	1			COSM9118690	12,2	34,0	p.Val152Met	278	5	NM_000051,3	c.454G>A	missense	1	0,99(COSM9118690)		0,00001
S14-00921	ATM	chr11:108196911	C/T	SNV	1			COSM1235407	6,4	27,0	p.Leu2312Phe	422	47	NM_000051,3	c.6934C>T	missense	1	0,99(COSM1235407)		0,00001
S14-00921	ATM	chr11:108186557	T/C	SNV	1			COSM7351415	8,4	24,0	p.Leu2005Pro	286	41	NM_000051,3	c.6014T>C	missense	1	0,98(COSM7351415)		0,00001
S14-00921	ATM	chr11:108141816	C/T	SNV	1			COSM1492404	9,8	19,0	p.Pro955Leu	193	19	NM_000051,3	c.2864C>T	missense	0,314	0,99(COSM1492404)		0,00001
S14-00921	ATM	chr11:108201089	C/T	SNV	1	Deleterious	Loss-of-function	COSM1351002	6,3	13,0	p.Arg2486Ter	206	50	NM_000051,3	c.7456C>T	nonsense		0,94(COSM1351002)	Pathogenic/Likely pathogenic	0,00098
S14-00921	BRAF	chr7:140453109	T/C	SNV	1			COSM21613	7,6	30,0	p.Gln609Arg	393	15	NM_004333,5	c.1826A>G	missense	0,017	0,98(COSM21613)		0,00001
S14-00921	BRAF	chr7:140481401	TCC/TTC	SNV	1	Hotspot	Gain-of-function	COSM461	6,5	20,0	p.Gly469Glu	306	11	NM_004333,5	c.1406G>A	missense	0,999	0,99(COSM461)	Pathogenic	0,00052
S14-00921	CDH1	chr16:68862194	G/A	SNV	1			COSM4824743	8,3	36,0	p.Gly761Glu	436	14	NM_004360,4	c.2282G>A	missense	1	0,99(COSM4824743)	Uncertain significance	0,00001
S14-00921	CTNNB1	chr3:41266073	C/T	SNV	1			COSM5748	5,5	22,0	p.His24Tyr	400	3	NM_001904,3	c.70C>T	missense	0,035	0,95(COSM5748)		0,00028
S14-00921	FANCD2	chr3:10081030	G/A	SNV	1			COSM5805919	17,0	17,0	p.Val187Met	100	8	NM_033084,4	c.559G>A	missense	0,973	0,91(COSM5805919)		0,00001
S14-00921	KIT	chr4:55599308	G/A	SNV	1			COSM7335268	10,0	23,0	p.Gly812Ser	229	17	NM_000222,2	c.2434G>A	missense	1	0,99(COSM7335268)		0,00001
S14-00921	KIT	chr4:55602667	C/T	SNV	1			COSM28588	8,4	16,0	p.Arg830Ter	191	18	NM_000222,2	c.2488C>T	nonsense		0,97(COSM28588)		0,00001
S14-00921	KRAS	chr12:25380285	G/A	SNV	1			COSM87288	15,0	41,0	p.Thr58Ile	274	3	NM_033360,3	c.173C>T	missense	1	0,99(COSM87288)	Pathogenic	0,00001
S14-00921	KRAS	chr12:25380283	C/A	SNV	1	Hotspot	Gain-of-function	COSM1235389	6,9	19,0	p.Ala59Ser	274	3	NM_033360,3	c.175G>T	missense	0,745	0,98(COSM1235389)	Likely pathogenic	0,00033
S14-00921	MLH1	chr3:37090086	C/T	SNV	1	Deleterious	Loss-of-function	COSM1692535	21,1	28,0	p.Arg659Ter	133	17	NM_000249,3	c.1975C>T	nonsense		0,97(COSM1692535)	Pathogenic	0,00001
S14-00921	MLH1	chr3:37056023	C/T	SNV	1			COSM9361837	5,5	19,0	p.Leu260Phe	347	9	NM_000249,3	c.778C>T	missense	0,971	0,99(COSM9361837)	Uncertain significance	0,00068
S14-00921	MSH2	chr2:47643501	C/T	SNV	1	Deleterious	Loss-of-function	COSM1215558	14,4	18,0	p.Gln337Ter	125	6	NM_000251,2	c.1009C>T	nonsense		0,99(COSM1215558)	Pathogenic	0,00001
S14-00921	MSH6	chr2:48026963	C/T	SNV	1			COSM6973078	28,6	32,0	p.Ser614Phe	112	4	NM_000179,2	c.1841C>T	missense	0,205	0,96(COSM6973078)		0,00001
S14-00921	NF1	chr17:29654820	G/A	SNV	1			COSM71825	6,5	29,0	p.Ala1858Thr	449	38	NM_001042492,2	c.5572G>A	missense	0,824	0,99(COSM71825)	Uncertain significance	0,00001
S14-00921	NF1	chr17:29576112	G/A	SNV	1			COSM6947513	12,6	24,0	p.Arg1362Gln	190	30	NM_001042492,2	c.4085G>A	missense	0,999	0,88(COSM6947513)	Uncertain significance	0,00001
S14-00921	NF1	chr17:29576111	C/T	SNV	1	Deleterious	Loss-of-function	COSM24443	9,0	17,0	p.Arg1362Ter	189	30	NM_001042492,2	c.4084C>T	nonsense		1,00(COSM24443)	Pathogenic	0,00003
S14-00921	NRAS	chr1:115256542	C/T	SNV	1			COSM6438073	11,1	13,0	p.Asp57Asn	117	3	NM_002524,4	c.169G>A	missense	0,999	0,99(COSM6438073)		0,00001
S14-00921	PALB2	chr16:23637618	G/A	SNV	1			COSM9310492	5,6	19,0	p.Ser896Phe	342	7	NM_024675,3	c.2687C>T	missense	1	0,98(COSM9310492)		0,00057
S14-00921	PIK3CA	chr3:178951971	G/A	SNV	1			COSM28544	13,8	35,0	p.Gly1009Glu	253	21	NM_006218,3	c.3026G>A	missense	1	0,99(COSM28544)		0,00001
S14-00921	PIK3CA	chr3:178921548	G/A	SNV	1	Hotspot	Gain-of-function	COSM253279	7,0	26,0	p.Val344Met	372	5	NM_006218,3	c.1030G>A	missense	1	0,99(COSM253279)	Pathogenic/Likely pathogenic	0,00004
S14-00921	PIK3CA	chr3:178919314	C/A	SNV	1			COSM7909985	10,6	11,0	p.Leu267Met	104	4	NM_006218,3	c.799C>A	missense	0,82	0,90(COSM7909985)		0,00004
S14-00921	PIK3CA	chr3:178952141	G/A	SNV	1			COSM6941467	6,8	11,0	p.Ala1066Thr	161	21	NM_006218,3	c.3196G>A	missense	0,141	0,95(COSM6941467)		0,00109
S14-00921	POLE	chr12:133249314	C/A	SNV	1			COSM430778	13,0	13,0	p.Asp529Tyr	100	15	NM_006231,3	c.1585G>T	missense	0,773	0,84(COSM430778)		0,00001
S14-00921	POLE	chr12:133212542	C/A	SNV	1			COSM385240	8,1	12,0	p.Trp1916Leu	149	42	NM_006231,3	c.5747G>T	missense	0,996	0,99(COSM385240)		0,00027
S14-00921	PTEN	chr10:89717652	C/T	SNV	1			COSM1702738	15,9	21,0	p.Ser226Phe	132	7	NM_000314,6	c.677C>T	missense	0,773	0,98(COSM1702738)		0,00001
S14-00921	PTEN	chr10:89717749	C/A	SNV	1			COSM3807906	9,5	20,0	p.Phe258Leu	210	7	NM_000314,6	c.774C>A	missense	0,896	0,97(COSM3807906)		0,00001
S14-00921	RB1	chr13:49027196	C/T	SNV	1			COSM5674798	5,3	33,0	p.Ser588Phe	620	18	NM_000321,2	c.1763C>T	missense	0,246	0,77(COSM5674798)	Uncertain significance	0,00003
S14-00921	RB1	chr13:48921966	G/A	SNV	1			COSM6366319	6,8	29,0	p.Cys169Tyr	427	5	NM_000321,2	c.506G>A	missense	0,493	0,93(COSM6366319)		0,00001
S14-00921	SMAD4	chr18:48584572	C/T	SNV	1	Deleterious	Loss-of-function	COSM4728228	10,1	22,0	p.Gln249Ter	217	6	NM_005359,5	c.745C>T	nonsense		0,89(COSM4728228)		0,00001
S14-00921	TP53	chr17:7579844	C/T	SNV	1	Deleterious	Loss-of-function	COSM4556687	11,7	16,0	p.Trp23Ter	137	2	NM_000546,5	c.69G>A	nonsense		0,91(COSM4556687)		0,00001
S14-00921	VHL	chr3:10191501	T/A	SNV	1			COSM17785	6,0	10,0	p.Val165Asp	168	3	NM_000551,3	c.494T>A	missense	1	0,91(COSM17785)		0,00445
S14-04316	CDKN2A	chr9:21971169	TCCGC/C	INDEL	11	Deleterious	Loss-of-function	COSM12516	12,3	241,0	p.Glu61AlafsTer55	1956	2	NM_001195132,1	c.178_188delGCGGAGCTGCT	frameshiftDeletion		1,00(COSM12516)		0,00001
S14-04316	KRAS	chr12:25398284	CC/CG	SNV	1	Hotspot	Gain-of-function	COSM518	7,4	91,0	p.Gly12Arg	1233	2	NM_033360,3	c.34G>C	missense	0,741	0,98 (COSM518)	Pathogenic	0,00001
S14-04316	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	8,6	86,0	p.Leu114Val	999	2	NM_002467,5	c.340C>G	missense	0,855	0,96 (COSM6209969)		0,00001
S14-04316	SMAD4	chr18:48593406	G/A	SNV	1	Hotspot	Loss-of-function	COSM1150895	10,1	201,0	p.Gly386Asp	2000	10	NM_005359,5	c.1157G>A	missense	1	0,99 (COSM1150895)	Pathogenic/Likely pathogenic	0,00001
S14-06208	ALK	chr2:29445408	G/T	SNV	1			COSM7848119	7,2	27,0	p.Pro1142Gln	377	21	NM_004304,4	c.3425C>A	missense	0,996	0,98(COSM7848119)		0,00001
S14-06208	APC	chr5:112175521	TGG/TGA	SNV	1			COSM6602036	18,4	75,0	p.Gly1412Glu	408	16	NM_000038,5	c.4235G>A	missense	0,994	0,85(COSM19592)		0,00001
S14-06208	APC	chr5:112154942	C/T	SNV	1	Deleterious	Loss-of-function	COSM19209	6,4	63,0	p.Arg405Ter	980	10	NM_000038,5	c.1213C>T	nonsense		0,96(COSM19209)	Pathogenic	0,00001
S14-06208	ARID2	chr12:46242663	G/A	SNV	1			COSM4663267	7,1	106,0	p.Arg542Gln	1493	13	NM_152641,3	c.1625G>A	missense	0,999	0,99(COSM4663267)		0,00001
S14-06208	ARID2	chr12:46230406	G/A	SNV	1			COSM69715	7,5	82,0	p.Arg247His	1099	7	NM_152641,3	c.740G>A	missense	1	0,99(COSM69715)		0,00001
S14-06208	ARID2	chr12:46244724	G/A	SNV	1			COSM7339283	7,0	53,0	p.Ala940Thr	761	15	NM_152641,3	c.2818G>A	missense	0,996	0,91(COSM7339283)		0,00001
S14-06208	ARID2	chr12:46231437	C/T	SNV	1			COSM1361683	16,8	52,0	p.Thr426Met	309	10	NM_152641,3	c.1277C>T	missense	0,999	1,00(COSM1361683)		0,00001
S14-06208	ARID2	chr12:46244796	G/T	SNV	1	Deleterious	Loss-of-function	COSM3460972	10,5	33,0	p.Gly964Ter	314	15	NM_152641,3	c.2890G>T	nonsense		0,98(COSM3460972)		0,00001
S14-06208	ATM	chr11:108172385	C/T	SNV	1	Deleterious	Loss-of-function	COSM172204	10,8	100,0	p.Arg1730Ter	930	35	NM_000051,3	c.5188C>T	nonsense		0,85(COSM172204)	Pathogenic/Likely pathogenic	0,00001
S14-06208	ATM	chr11:108170548	G/A	SNV	1			COSM7167035	8,1	88,0	p.Asp1705Asn	1092	34	NM_000051,3	c.5113G>A	missense	0,034	0,94(COSM7167035)		0,00001

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S14-06208	ATM	chr11:108165729	C/T	SNV	1	Deleterious	Loss-of-function	COSM1350874	11,7	81,0	p.Arg1618Ter	693	32	NM_000051,3	c.4852C>T	nonsense		0,85(COSM1350874)	Pathogenic	0,00001
S14-06208	ATM	chr11:108178641	C/T	SNV	1	Deleterious	Loss-of-function	COSM6904314	9,6	62,0	p.Arg1898Ter	646	38	NM_000051,3	c.5692C>T	nonsense		0,74(COSM6904314)	Pathogenic	0,00001
S14-06208	ATM	chr11:108196825	C/A	SNV	1	Deleterious	Loss-of-function	COSM8854315	5,2	50,0	p.Ser2283Ter	965	47	NM_000051,3	c.6848C>A	nonsense		0,86(COSM8854315)		0,00001
S14-06208	ATM	chr11:108196197	G/T	SNV	1	Deleterious	Loss-of-function	COSM6946276	8,6	45,0	p.Glu2245Ter	522	46	NM_000051,3	c.6733G>T	nonsense		0,90(COSM6946276)		0,00001
S14-06208	ATM	chr11:108155074	G/T	SNV	1			COSM922719	5,8	42,0	p.Lys1289Asn	727	26	NM_000051,3	c.3867G>T	missense	0,995	0,98(COSM922719)		0,00001
S14-06208	ATM	chr11:108196789	C/A	SNV	1			COSM6519562	5,6	38,0	p.Pro2271His	681	47	NM_000051,3	c.6812C>A	missense	1	1,00(COSM6519562)		0,00001
S14-06208	BAP1	chr3:52442570	G/A	SNV	1			COSM5490570	11,7	181,0	p.Arg59Trp	1547	4	NM_004656,3	c.175C>T	missense	1	0,98(COSM5490570)		0,00001
S14-06208	BAP1	chr3:52441283	G/A	SNV	1			COSM6609923	7,7	60,0	p.Arg163Trp	782	7	NM_004656,3	c.487C>T	missense	1	0,98(COSM6609923)		0,00001
S14-06208	BAP1	chr3:52436392	C/T	SNV	1			COSM9231255	8,8	25,0	p.Arg701His	285	17	NM_004656,3	c.2102G>A	missense	0,995	0,96(COSM9231255)		0,00001
S14-06208	CTNNB1	chr3:41266888	G/A	SNV	1			COSM327070	5,1	62,0	p.Ala187Thr	1207	5	NM_001904,3	c.559G>A	missense	0,999	0,98(COSM327070)		0,00001
S14-06208	CTNNB1	chr3:41275179	C/T	SNV	1			COSM317204	11,3	43,0	p.Arg449Cys	380	9	NM_001904,3	c.1345C>T	missense	0,822	0,99(COSM317204)		0,00001
S14-06208	CTNNB1	chr3:41266097	G/T	SNV	1	Hotspot	Gain-of-function	COSM5661	6,8	22,0	p.Asp32Tyr	322	3	NM_001904,3	c.94G>T	missense	1	0,98(COSM5661)	Pathogenic/Likely pathogenic, ot	0,00017
S14-06208	EGFR	chr7:55266472	G/A	SNV	1			COSM3639753	10,5	52,0	p.Glu922Lys	494	23	NM_005228,4	c.2764G>A	missense	0,927	0,99(COSM3639753)		0,00001
S14-06208	EGFR	chr7:55268059	G/A	SNV	1			COSM5574310	10,6	52,0	p.Glu967Lys	493	24	NM_005228,4	c.2899G>A	missense	0,999	0,99(COSM5574310)		0,00001
S14-06208	GNAQ	chr9:80412542	C/T	SNV	1			COSM1253350	7,2	15,0	p.Val167Ile	209	4	NM_002072,4	c.499G>A	missense	0	0,80(COSM1253350)		0,00012
S14-06208	KIT	chr4:55599308	G/A	SNV	1			COSM7335268	8,0	89,9	p.Gly812Ser	1130	17	NM_000222,2	c.2434G>A	missense	1	0,99(COSM7335268)		0,00001
S14-06208	KIT	chr4:55593644	CAA/AAA	SNV	1			COSM133754	7,3	47,0	p.Pro573Gln	640	11	NM_000222,2	c.1718C>A	missense	0,991	0,90(COSM79375)		0,00001
S14-06208	KIT	chr4:55597518	G/A	SNV	1			COSM6909331	12,9	41,0	p.Met722Ile	318	15	NM_000222,2	c.2166G>A	missense	0,363	0,99(COSM6909331)		0,00001
S14-06208	KRAS	chr12:25398300	C/T	SNV	1			COSM30620	6,7	20,0	p.Val7Met	299	2	NM_033360,3	c.19G>A	missense	1	0,98(COSM30620)		0,00004
S14-06208	KRAS	chr12:25398219	G/A	SNV	1			COSM27637	5,1	15,0	p.Pro34Ser	295	2	NM_033360,3	c.100C>T	missense	1	0,99(COSM27637)		0,00401
S14-06208	NF1	chr17:29653016	G/A	SNV	1			COSM4706551	7,6	94,0	p.Asp1672Asn	1238	37	NM_001042492,2	c.5014G>A	missense	0,002	0,99(COSM4706551)	Uncertain significance	0,00001
S14-06208	NF1	chr17:29585404	G/A	SNV	1			COSM7463365	6,2	83,1	p.Gly1406Arg	1331	32	NM_001042492,2	c.4216G>A	missense	1	0,99(COSM7463365)		0,00001
S14-06208	NF1	chr17:29654857	G/A	SNV	1			COSM977479	6,2	78,1	p.Arg1870Gln	1261	38	NM_001042492,2	c.5609G>A	missense	0,998	0,90(COSM977479)	Pathogenic	0,00001
S14-06208	NF1	chr17:29587481	C/T	SNV	1			COSM977443	8,7	74,0	p.Arg1509Cys	855	34	NM_001042492,2	c.4525C>T	missense	1	0,95(COSM977443)	Uncertain significance	0,00001
S14-06208	NF1	chr17:29687626	C/T	SNV	1			COSM4990967	24,9	61,0	p.Pro2761Leu	245	57	NM_001042492,2	c.8282C>T	missense	0,998	0,98(COSM4990967)		0,00001
S14-06208	NF1	chr17:29559810	G/A	SNV	1			COSM1610050	6,4	34,0	p.Arg1136Gln	528	26	NM_001042492,2	c.3407G>A	missense	0,094	0,99(COSM1610050)		0,00001
S14-06208	PALB2	chr16:23646627	G/A	SNV	1	Deleterious	Loss-of-function	COSM6912572	10,2	76,0	p.Arg414Ter	748	4	NM_024675,3	c.1240C>T	nonsense		0,97(COSM6912572)	Pathogenic	0,00001
S14-06208	PIK3CA	chr3:178952097	G/A	SNV	1			COSM308549	19,5	101,0	p.Trp1051Ter	518	21	NM_006218,3	c.3152G>A	nonsense		0,97(COSM308549)		0,00001
S14-06208	PIK3CA	chr3:178952078	G/A	SNV	1	Hotspot	Gain-of-function	COSM25086	13,1	68,0	p.Asp1045Asn	518	21	NM_006218,3	c.3133G>A	missense	0,418	0,97(COSM25086)		0,00001
S14-06208	PIK3CA	chr3:178942501	C/T	SNV	1			COSM6191611	8,9	67,0	p.Arg770Ter	750	16	NM_006218,3	c.2308C>T	nonsense		0,94(COSM6191611)		0,00001
S14-06208	PIK3CA	chr3:178952100	C/A	SNV	1			COSM17447	6,8	35,0	p.Thr1052Lys	516	21	NM_006218,3	c.3155C>A	missense	0,305	0,96(COSM17447)		0,00001
S14-06208	POLD1	chr19:50909557	G/A	SNV	1			COSM6751939	15,6	66,0	p.Arg454His	424	11	NM_001256849,1	c.1361G>A	missense	1	0,99(COSM6751939)	Uncertain significance	0,00001
S14-06208	POLD1	chr19:50906355	C/T	SNV	1			COSM4456631	11,6	33,0	p.Ser339Leu	285	9	NM_001256849,1	c.1016C>T	missense	0,41	0,91(COSM4456631)		0,00001
S14-06208	POLE	chr12:133219425	C/T	SNV	1			COSM6909663	15,7	69,0	p.Arg1570Gln	439	36	NM_006231,3	c.4709G>A	missense	0,977	1,00(COSM6909663)		0,00001
S14-06208	POLE	chr12:133220551	G/T	SNV	1			COSM4040365	10,0	48,0	p.Leu1388Ile	480	33	NM_006231,3	c.4162C>A	missense	0,999	0,99(COSM4040365)		0,00001
S14-06208	POLE	chr12:133249803	C/T	SNV	1			COSM4040381	6,5	41,0	p.Val474Ile	631	14	NM_006231,3	c.1420G>A	missense	0,987	0,99(COSM4040381)	Uncertain significance	0,00001
S14-06208	PTEN	chr10:89717672	C/T	SNV	1	Deleterious	Loss-of-function	COSM5154	11,3	70,0	p.Arg233Ter	619	7	NM_000314,6	c.697C>T	nonsense		0,82(COSM5154)	Pathogenic	0,00001
S14-06208	RAD51C	chr17:56787223	C/T	SNV	1	Deleterious	Loss-of-function	COSM212455	8,5	35,0	p.Arg237Ter	411	5	NM_058216,2	c.709C>T	nonsense		0,78(COSM212455)	Pathogenic	0,00001
S14-06208	RB1	chr13:49054142	C/T	SNV	1	Deleterious	Loss-of-function	COSM7685017	18,3	97,0	p.Arg908Ter	531	27	NM_000321,2	c.2722C>T	nonsense		0,89(COSM7685017)		0,00001
S14-06208	SMAD4	chr18:48593519	G/A	SNV	1			COSM6917021	13,9	84,0	p.Asp424Asn	604	10	NM_005359,5	c.1270G>A	missense	0,575	1,00(COSM6917021)		0,00001
S14-06208	SMAD4	chr18:48593543	A/G	SNV	1			COSM14192	5,7	22,0	p.Ser432Gly	383	10	NM_005359,5	c.1294A>G	missense	0,217	0,97(COSM14192)		0,00016
S14-06208	TP53	chr17:7579361	A/G	SNV	1			COSM45169	7,5	78,0	p.Phe109Ser	1041	4	NM_000546,5	c.326T>C	missense	1	0,99(COSM45169)	Uncertain significance	0,00001
S14-07541	KRAS	chr12:25380275	TT/GT	SNV	1	Hotspot	Gain-of-function	COSM554	7,9	156,9	p.Gln61His	1989	3	NM_033360,3	c.183A>C	missense	0,09	0,93(COSM554)	Pathogenic/Likely pathogenic	0,00001
S14-07541	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,5	70,0	p.Leu114Val	1076	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S14-07541	TP53	chr17:7577022	G/A	SNV	1	Deleterious	Loss-of-function	COSM10663	11,4	201,0	p.Arg306Ter	1771	8	NM_000546,5	c.916C>T	nonsense		0,95(COSM10663)	Pathogenic	0,00001
S14-08491	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	8,0	144,1	p.Leu114Val	1810	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S14-08566	APC	chr5:112175891	G/A	SNV	1			COSM18840	5,6	54,0	p.Gly1534Arg	960	16	NM_000038,5	c.4600G>A	missense	0,7	0,90(COSM18840)		0,00001
S14-08566	APC	chr5:112173704	C/T	SNV	1	Deleterious	Loss-of-function	COSM19058	12,2	36,0	p.Arg805Ter	295	16	NM_000038,5	c.2413C>T	nonsense		0,83(COSM19058)	Pathogenic	0,00001
S14-08566	APC	chr5:112151204	C/T	SNV	1	Deleterious	Loss-of-function	COSM19679	11,0	31,0	p.Arg283Ter	281	9	NM_000038,5	c.847C>T	nonsense		0,98(COSM19679)	Pathogenic	0,00001
S14-08566	APC	chr5:112177049	C/T	SNV	1	Deleterious	Loss-of-function	COSM1059619	6,7	25,0	p.Arg1920Ter	376	16	NM_000038,5	c.5758C>T	nonsense		0,87(COSM1059619)		0,00001
S14-08566	ARID2	chr12:46211569	G/A	SNV	1			COSM4041981	6,7	61,0	p.Val179Ile	906	5	NM_152641,3	c.535G>A	missense	0,999	0,99(COSM4041981)		0,00001
S14-08566	ARID2	chr12:46246629	C/T	SNV	1	Deleterious	Loss-of-function	COSM5607878	6,4	30,0	p.Gln1575Ter	468	15	NM_152641,3	c.4723C>T	nonsense		0,99(COSM5607878)		0,00001
S14-08566	ARID2	chr12:46245210	G/T	SNV	1			COSM6981296	6,4	26,0	p.Ala1102Ser	404	15	NM_152641,3	c.3304G>T	missense	0,001	0,89(COSM6981296)		0,00001
S14-08566	ATM	chr11:108175528	C/T	SNV	1	Deleterious	Loss-of-function	COSM1350896	5,6	33,0	p.Arg1875Ter	591	37	NM_000051,3	c.5623C>T	nonsense		0,86(COSM1350896)	Pathogenic	0,00001
S14-08566	BRAF	chr7:140453149	C/T	SNV	1	Hotspot	Gain-of-function	COSM7807516	8,7	69,0	p.Gly596Ser	798	15	NM_004333,5	c.1786G>A	missense	1	0,98(COSM7807516)	Likely pathogenic	0,00001
S14-08566	FGFR2	chr10:123298200	C/T	SNV	1			COSM6956507	12,2	33,0	p.Met218Ile	270	6	NM_000141,4	c.654G>A	missense	0,99	0,99(COSM6956507)		0,00001
S14-08566	GNAQ	chr9:80430566	G/A	SNV	1			COSM3908208	7,4	89,0	p.Arg148Ter	1198	3	NM_002072,4	c.442C>T	nonsense		0,90(COSM3908208)		0,00001
S14-08566	KIT	chr4:55595622	G/T	SNV	1			COSM6980630	6,3	21,0	p.Lys704Asn	333	14	NM_000222,2	c.2112G>T	missense	0,999	0,95(COSM6980630)		0,00006
S14-08566	MLH1	chr3:37038192	G/A	SNV	1			COSM1422567	5,9	115,1	p.Gly67Arg	1947	2	NM_000249,3	c.199G>A	missense	1	0,98(COSM1422567)	Pathogenic	0,00001
S14-08566	MSH2	chr2:47705472	G/A	SNV	1			COSM3581877	6,9	23,0	p.Asp758Asn	335	14	NM_000251,2	c.2272G>A	missense	1	0,99(COSM3581877)	Uncertain significance	0,00001
S14-08566	MSH2	chr2:47702409	G/T	SNV	1			COSM6269155	5,4	18,0	p.Gly669Cys	332	12	NM_000251,2	c.2005G>T	missense	1	1,00(COSM6269155)	Conflicting interpretations of pat	0,00098
S14-08566	MSH6	chr2:48018188	G/A	SNV	1			COSM4094430	11,7	29,0	p.Arg128His	248	2	NM_000179,2	c.383G>A	missense	0,606	0,94(COSM4094430)	Uncertain significance	0,00001
S14-08566	MSH6	chr2:48030612	C/T	SNV	1			COSM6715816	5,2	24,0	p.Arg1076Cys	464	5	NM_000179,2	c.3226C>T	missense	0,991	0,92(COSM6715816)	Likely pathogenic	0,00041
S14-08566	MSH6	chr2:48026896	G/C	SNV	1			COSM6978171	6,1	22,0	p.Val592Leu	360	4	NM_000179,2	c.1774G>C	missense	0,277	0,99(COSM6978171)		0,00006
S14-08566	MYC	chr8:128750687	C/A	SNV	1			COSM3316887	17,5	35,0	p.Pro75His	200	2	NM_002467,5	c.224C>A	missense	1	0,99(COSM3316887)		0,00001
S14-08566	MYC	chr8:128750695	C/A	SNV	1			COSM6206287	8,0	16,0	p.Pro78Thr	200	2	NM_002467,5	c.232C>A	missense	1	0,99(COSM6206287)		0,00002
S14-08566	NF1	chr17:29585374	C/T	SNV	1			COSM6952368	7,4	53,0	p.Arg1396Cys	713	32	NM_001042492,2	c.4186C>T	missense	1	0,94(COSM6952368)	Uncertain significance	0,00001
S14-08566	NF1	chr17:29556323	G/A	SNV	1			COSM6264621	9,4	38,0	p.Arg897Gln	406	21	NM_001042492,2	c.2690G>A	missense	0,288	0,99(COSM6264621)	Uncertain significance	0,00001
S14-08566	PIK3CA	chr3:178947088	G/A	SNV	1			COSM9494939	6,5	66,0	p.Gly842Ser	1020	18	NM_006218,3	c.2524G>A	missense	1	0,99(COSM9494939)		0,00001
S14-08566	PIK3CA	chr3:178952115	G/A	SNV	1			COSM6475611	14,7	49,0	p.Trp1057Ter	334	21	NM_006218,3	c.3170G>A	nonsense		0,97(COSM6475611)		0,00001
S14-08566	PIK3CA	chr3:178936068	G/A	SNV	1			COSM1732635	7,0	48,0	p.Arg537Gln	687	10	NM_006218,3	c.1610G>A	missense	0,564	0,97(COSM1732635)		0,00001
S14-08566	PIK3CA	chr3:178952102	A/G	SNV	1			COSM3724544	5,4	18,0	p.Thr1053Ala	334	21	NM_006218,3	c.3157A>G	missense	0,993	0,96(COSM3724544)		0,00105
S14-08566	PMS2	chr7:6029581	C/T	SNV	1			COSM1091091	6,9	46,0	p.Val332Ile	663	10	NM_000535,6	c.994G>A	missense	0,387	0,91(COSM1091091)	Uncertain significance	0,00001
S14-08566	PMS2	chr7:6038848	C/T	SNV	1			COSM6971277	12,4	44,0	p.Arg199His	355	6	NM_000535,6	c.596G>A	missense	1	0,99(COSM6971277)	Uncertain significance	0,00001
S14-08566	POLD1	chr19:50909698	C/T	SNV	1			COSM3743064	28,9	59,0	p.Thr473Met	204	12	NM_001256849,1	c.1418C>T	missense	1	0,86(COSM3743064)		0,00001
S14-08566	POLD1	chr19:50906355	C/T	SNV	1			COSM4456631	17,2	37,0	p.Ser339Leu	215	9	NM_001256849,1	c.1016C>T	missense	0,41	0,91(COSM4456631)		0,00001
S14-08566	POLD1	chr19:50912904	C/T	SNV	1			COSM6751917	16,5	26,0	p.Pro712Leu	158	17	NM_001256849,1	c.2135C>T	missense	1	0,93(COSM6751917)		0,00001
S14-08566	POLD1	chr19:50906795	G/A	SNV	1			COSM8615946	7,4	17,0	p.Gly395Ser	231	10	NM_001256849,1	c.1183G>A	missense	1	0,91(COSM8615946)	Uncertain significance	0,00004

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S14-08566	POLD1	chr19:50902651	G/C	SNV	1			COSM6933956	5,3	15,0	p.Asp76His	281	3	NM_001256849,1	c.226G>C	missense	0,906	0,93(COSM6933956)		0,00254
S14-08566	POLE	chr12:133202801	G/A	SNV	1	Deleterious	Loss-of-function	COSM4503587	5,3	35,0	p.Arg2145Ter	659	46	NM_006231,3	c.6433C>T	nonsense		0,92(COSM4503587)		0,00002
S14-08566	POLE	chr12:133220556	C/T	SNV	1			COSM8861111	5,1	23,0	p.Arg1386Gln	453	33	NM_006231,3	c.4157G>A	missense	0,992	0,99(COSM8861111)	Uncertain significance	0,00065
S14-08566	POLE	chr12:133254219	C/T	SNV	1			COSM5704365	10,8	11,0	p.Arg222His	102	7	NM_006231,3	c.665G>A	missense	1	0,99(COSM5704365)	Uncertain significance	0,00003
S14-08566	PTEN	chr10:89711918	G/T	SNV	1			COSM5249	5,3	31,0	p.Ser179Ile	587	6	NM_000314,6	c.536G>T	missense	0,612	0,94(COSM5249)		0,00006
S14-08566	PTEN	chr10:89711888	C/A	SNV	1			COSM5252	5,2	23,0	p.Pro169His	439	6	NM_000314,6	c.506C>A	missense	1	0,96(COSM5252)		0,00043
S14-08566	SMAD4	chr18:48593465	G/A	SNV	1			COSM14103	10,1	39,0	p.Ala406Thr	386	10	NM_005359,5	c.1216G>A	missense	1	0,99(COSM14103)	Uncertain significance	0,00001
S14-08566	TP53	chr17:7578211	C/A	SNV	1	Hotspot	Loss-of-function	COSM43650	7,4	51,0	p.Arg213Leu	687	6	NM_000546,5	c.638G>T	missense	1	0,99(COSM43650)	Likely pathogenic	0,00001
S14-08566	TP53	chr17:7577539	G/A	SNV	1	Hotspot	Loss-of-function	COSM10656	9,5	43,0	p.Arg248Trp	454	7	NM_000546,5	c.742C>T	missense	1	0,94(COSM10656)	Pathogenic	0,00001
S14-09082	KRAS	chr12:25398284	CC/CG	SNV	1	Hotspot	Gain-of-function	COSM518	10,7	111,0	p.Gly12Arg	1036	2	NM_033360,3	c.34G>C	missense	0,741	0,98 (COSM518)	Pathogenic	0,00001
S14-09082	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	5,9	105,0	p.Leu114Val	1777	2	NM_002467,5	c.340C>G	missense	0,855	0,96 (COSM6209969)		0,00001
S15-01661	APC	chr5:112164587	G/A	SNV	1			COSM6602007	8,8	20,0	p.Arg554Gln	228	14	NM_000038,5	c.1661G>A	missense	0,427	0,99(COSM6602007)		0,00001
S15-01661	APC	chr5:112162834	C/T	SNV	1	Deleterious	Loss-of-function	COSM201292	5,6	14,0	p.Gln480Ter	252	12	NM_000038,5	c.1438C>T	nonsense		0,99(COSM201292)		0,00229
S15-01661	ARID2	chr12:46230405	C/A	SNV	1			COSM939495	15,3	20,0	p.Arg247Ser	131	7	NM_152641,3	c.739C>A	missense	0,997	0,90(COSM939495)		0,00001
S15-01661	ATM	chr11:108196917	C/T	SNV	1	Deleterious	Loss-of-function	COSM4433762	7,8	19,0	p.Gln2314Ter	243	47	NM_000051,3	c.6940C>T	nonsense		0,97(COSM4433762)		0,00001
S15-01661	ATM	chr11:108173586	G/T	SNV	1	Deleterious	Loss-of-function	COSM6947860	6,7	13,0	p.Glu1776Ter	194	36	NM_000051,3	c.5326G>T	nonsense		0,93(COSM6947860)	Pathogenic	0,00059
S15-01661	ATM	chr11:108201105	G/A	SNV	1	Deleterious	Loss-of-function	COSM6519564	8,5	11,0	p.Trp2491Ter	129	50	NM_000051,3	c.7472G>A	nonsense		0,99(COSM6519564)		0,00017
S15-01661	CDH1	chr16:68847282	G/A	SNV	1			COSM19750	20,7	24,0	p.Asp402Asn	116	9	NM_004360,4	c.1204G>A	missense	1	0,99(COSM19750)		0,00001
S15-01661	CTNNB1	chr3:41266046	G/A	SNV	1			COSM49161	7,0	21,0	p.Glu15Lys	301	3	NM_001904,3	c.43G>A	missense	0,113	0,98(COSM49161)		0,00001
S15-01661	NF1	chr17:29562668	C/T	SNV	1			COSM436322	19,1	21,0	p.Arg1250Trp	110	28	NM_001042492,2	c.3748C>T	missense	1	0,96(COSM436322)	Uncertain significance	0,00001
S15-01661	NRAS	chr1:115251226	C/T	SNV	1			COSM6729412	7,0	23,0	p.Arg167Gln	329	5	NM_002524,4	c.500G>A	missense	0,012	0,91(COSM6729412)		0,00001
S15-01661	PTEN	chr10:89717741	G/T	SNV	1	Deleterious	Loss-of-function	COSM5326	5,8	13,0	p.Glu256Ter	224	7	NM_000314,6	c.766G>T	nonsense		0,99(COSM5326)	Pathogenic	0,00213
S15-01661	RB1	chr13:48881438	G/A	SNV	1			COSM6946312	13,4	24,0	p.Glu54Lys	179	2	NM_000321,2	c.160G>A	missense	0,181	0,72(COSM6946312)		0,00001
S15-01661	RB1	chr13:48937061	C/A	SNV	1			COSM6763478	7,7	16,0	p.Leu277Ile	207	8	NM_000321,2	c.829C>A	missense	0,993	0,94(COSM6763478)		0,00003
S15-01661	SMAD4	chr18:48603021	G/A	SNV	1			COSM6784682	6,5	21,0	p.Arg441His	321	11	NM_005359,5	c.1322G>A	missense	0,054	0,99(COSM6784682)		0,00003
S15-01661	TP53	chr17:7574003	G/A	SNV	1	Deleterious	Loss-of-function	COSM11073	21,3	77,0	p.Arg342Ter	362	10	NM_000546,5	c.1024C>T	nonsense		0,73(COSM11073)	Pathogenic	0,00001
S15-02745	APC	chr5:112177508	G/A	SNV	1			COSM8312420	11,4	28,0	p.Gly2073Ser	246	16	NM_000038,5	c.6217G>A	missense	0	0,98(COSM8312420)		0,00001
S15-02745	APC	chr5:112175996	G/A	SNV	1			COSM5990842	10,7	21,0	p.Asp1569Asn	197	16	NM_000038,5	c.4705G>A	missense	0,978	0,98(COSM5990842)	Uncertain significance	0,00001
S15-02745	ARID2	chr12:46242711	G/A	SNV	1			COSM2067816	13,7	34,0	p.Arg558His	249	13	NM_152641,3	c.1673G>A	missense	1	0,99(COSM2067816)		0,00001
S15-02745	ARID2	chr12:46287446	C/T	SNV	1	Deleterious	Loss-of-function	COSM1628616	16,8	28,0	p.Arg1769Ter	167	20	NM_152641,3	c.5305C>T	nonsense		0,87(COSM1628616)	Pathogenic	0,00001
S15-02745	ATM	chr11:108106466	G/A	SNV	1			COSM7343605	6,6	18,0	p.Gly134Asp	275	5	NM_000051,3	c.401G>A	missense	0,119	0,91(COSM7343605)	Uncertain significance	0,00011
S15-02745	BAP1	chr3:52440906	C/T	SNV	1			COSM5025953	5,6	13,0	p.Glu200Lys	232	8	NM_004656,3	c.598G>A	missense	0,998	0,99(COSM5025953)		0,00288
S15-02745	BAP1	chr3:52443592	C/A	SNV	1			COSM6945443	6,5	10,0	p.Asp34Tyr	153	3	NM_004656,3	c.100G>T. c.-3304C>A	missense, unknown	1	0,98(COSM6945443)		0,0024
S15-02745	BRIP1	chr17:59770824	G/A	SNV	1			COSM6452095	6,2	28,0	p.Arg848Cys	449	18	NM_032043,2	c.2542C>T	missense	1	0,97(COSM6452095)	Uncertain significance	0,00001
S15-02745	CDH1	chr16:68842729	G/T	SNV	1			COSM1679222	9,3	15,0	p.Arg222Ile	162	5	NM_004360,4	c.665G>T	missense	1	0,99(COSM1679222)		0,00001
S15-02745	CTNNB1	chr3:41266148	A/G	SNV	1			COSM5760	12,5	19,0	p.Lys49Glu	152	3	NM_001904,3	c.145A>G	missense	0,212	0,98(COSM5760)		0,00001
S15-02745	EGFR	chr7:55211079	A/G	SNV	1	Hotspot	Gain-of-function	COSM1451536	7,5	23,0	p.Arg108Gly	307	3	NM_005228,4	c.322A>G	missense	1	0,73(COSM1451536)	Likely pathogenic	0,00003
S15-02745	FGFR2	chr10:123298225	C/T	SNV	1			COSM174986	9,9	21,0	p.Arg210Gln	212	6	NM_000141,4	c.629G>A	missense	1	1,00(COSM174986)		0,00001
S15-02745	KIT	chr4:55602887	G/A	SNV	1			COSM6926781	5,3	18,0	p.Gly866Glu	343	19	NM_000222,2	c.2597G>A	missense	1	0,99(COSM6926781)		0,00143
S15-02745	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	9,2	14,0	p.Gly12Asp	153	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S15-02745	MLH1	chr3:37090086	C/T	SNV	1	Deleterious	Loss-of-function	COSM1692535	6,9	20,0	p.Arg659Ter	291	17	NM_000249,3	c.1975C>T	nonsense		0,97(COSM1692535)	Pathogenic	0,00002
S15-02745	MLH1	chr3:37042536	C/T	SNV	1	Deleterious	Loss-of-function	COSM29727	7,5	15,0	p.Arg100Ter	201	3	NM_000249,3	c.298C>T	nonsense		0,88(COSM29727)	Pathogenic	0,00008
S15-02745	MSH2	chr2:47637299	A/G	SNV	1			COSM9496203	7,1	23,0	p.Ile145Val	324	3	NM_000251,2	c.433A>G	missense	0	0,80(COSM9496203)	Uncertain significance	0,00001
S15-02745	MSH3	chr5:80074640	G/A	SNV	1	Deleterious	Loss-of-function	COSM3856618	5,3	17,0	p.Trp807Ter	323	17	NM_002439,4	c.2420G>A	nonsense		0,99(COSM3856618)		0,00175
S15-02745	MSH6	chr2:48028105	G/A	SNV	1			COSM7346757	6,6	13,1	p.Glu995Lys	200	4	NM_000179,2	c.2983G>A	missense	0,992	0,99(COSM7346757)	Uncertain significance	0,0007
S15-02745	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,9	15,0	p.Leu114Val	216	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00018
S15-02745	NF1	chr17:29665096	G/A	SNV	1			COSM1189438	14,6	29,0	p.Gly2253Glu	199	45	NM_001042492,2	c.6758G>A	missense	1	0,99(COSM1189437)	Uncertain significance	0,00001
S15-02745	PALB2	chr16:23646627	G/A	SNV	1	Deleterious	Loss-of-function	COSM6912572	8,6	16,0	p.Arg414Ter	187	4	NM_024675,3	c.1240C>T	nonsense		0,97(COSM6912572)	Pathogenic	0,00001
S15-02745	PIK3CA	chr3:178917544	G/A	SNV	1			COSM7339275	27,5	28,0	p.Arg140Gln	102	3	NM_006218,3	c.419G>A	missense	1	0,99(COSM7339275)		0,00001
S15-02745	PIK3CA	chr3:178936114	G/A	SNV	1			COSM37025	5,5	18,0	p.Trp552Ter	326	10	NM_006218,3	c.1656G>A	nonsense		0,99(COSM37025)		0,00079
S15-02745	POLD1	chr19:50909526	C/T	SNV	1			COSM6908588	6,0	16,0	p.Arg444Trp	266	11	NM_001256849,1	c.1330C>T	missense	1	0,94(COSM6908588)		0,00058
S15-02745	POLE	chr12:133219215	G/T	SNV	1			COSM6980999	6,5	19,0	p.Pro1610His	291	37	NM_006231,3	c.4829C>A	missense	0,034	1,00(COSM6980999)		0,00007
S15-02745	PTEN	chr10:89692980	A/G	SNV	1	Hotspot	Loss-of-function	COSM5144	13,5	33,0	p.Tyr155Cys	245	5	NM_000314,6	c.464A>G	missense	1	0,98(COSM5144)	Conflicting interpretations of pat	0,00001
S15-02745	PTEN	chr10:89717661	C/T	SNV	1			COSM7335257	5,9	11,0	p.Ser229Leu	187	7	NM_000314,6	c.686C>T	missense	0,042	0,97(COSM7335257)		0,00361
S15-02745	RAD51C	chr17:56787223	C/T	SNV	1	Deleterious	Loss-of-function	COSM212455	13,6	16,0	p.Arg237Ter	118	5	NM_058216,2	c.709C>T	nonsense		0,78(COSM212455)	Pathogenic	0,00001
S15-02745	SMAD4	chr18:48604665	G/A	SNV	1	Hotspot	Loss-of-function	COSM14193	11,8	20,0	p.Arg496His	170	12	NM_005359,5	c.1487G>A	missense	0,996	0,99(COSM14193)	Uncertain significance	0,00001
S15-02745	TP53	chr17:7578547	G/A	SNV	1			COSM45131	8,9	23,0	p.Pro128Leu	259	5	NM_000546,5	c.383C>T	missense	0,977	0,71(COSM45131)		0,00001
S15-02745	TP53	chr17:7578503	C/A	SNV	1			COSM44904	5,2	16,0	p.Val143Leu	310	5	NM_000546,5	c.427G>T	missense	0,401	0,94(COSM44904)	Uncertain significance	0,00278
S15-04504	CDKN2A	chr9:21971036	C/A	SNV	1	Hotspot	Loss-of-function	COSM13489	20,6	141,0	p.Asp108Tyr	685	2	NM_001195132,1	c.322G>T	missense	1	0,97(COSM12484),	Likely pathogenic	0,00001
S15-04504	KRAS	chr12:25398284	CC/CG	SNV	1	Hotspot	Gain-of-function	COSM518	16,7	169,0	p.Gly12Arg	1015	2	NM_033360,3	c.34G>C	missense	0,741	0,98(COSM1135366)	Pathogenic	0,00001
S15-05230	APC	chr5:112090658	G/A	SNV	1			COSM7347128	5,2	44,0	p.Arg24Gln	850	2	NM_000038,5	c.71G>A	missense	1	0,99 (COSM7347128)	Uncertain significance	0,00001
S15-05230	BRAF	chr7:140439694	C/T	SNV	1			COSM26447	5,7	42,0	p.Arg682Gln	736	17	NM_004333,5	c.2045G>A	missense	0,963	0,96 (COSM26447)		0,00001
S15-05230	CTNNB1	chr3:41274877	G/A	SNV	1			COSM327069	5,9	32,0	p.Arg376His	540	8	NM_001904,3	c.1127G>A	missense	1	1,00 (COSM327069)		0,00001
S15-05230	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	37,0	84,0	p.Gly12Asp	227	2	NM_033360,3	c.35G>A	missense	0,517	0,98 (COSM521)	Pathogenic	0,00001
S15-05230	MLH1	chr3:37067495	C/T	SNV	1			COSM29727	7,2	17,0	p.Pro469Leu	237	12	NM_000249,3	c.1406C>T	missense	0,1	0,75 (COSM25912)		0,00005
S15-05230	MLH1	chr3:37042536	C/T	SNV	1	Deleterious	Loss-of-function	COSM29727	5,1	10,0	p.Arg100Ter	197	3	NM_000249,3	c.298C>T	nonsense		0,88(COSM29727)	Pathogenic	0,01335
S15-05230	PMS2	chr7:6042130	G/A	SNV	1			COSM8012087	7,3	13,0	p.Ser164Phe	179	5	NM_000535,6	c.491C>T	missense	0,101	0,80 (COSM8012087)		0,00028
S15-05230	TP53	chr17:7577538	C/T	SNV	1	Hotspot	Loss-of-function	COSM10662	28,6	324,0	p.Arg248Gln	1134	7	NM_000546,5	c.743G>A	missense	1	0,98 (COSM10662)	Pathogenic	0,00001
S15-05501	AKT3	chr1:243809308	C/T	SNV	1			COSM9937035	21,1	36,0	p.Ala106Thr	171	4	NM_005465,4	c.316G>A	missense	0,567	0,99(COSM9937035)		0,00001
S15-05501	ALK	chr2:29430090	C/A	SNV	1			COSM5575702	25,7	26,0	p.Trp1295Cys	101	26	NM_004304,4	c.3885G>T	missense	1	0,96(COSM5575702)		0,00001
S15-05501	APC	chr5:112103020	C/T	SNV	1			COSM9860758	18,3	62,0	p.Pro119Ser	339	4	NM_000038,5	c.355C>T	missense	0,002	0,91(COSM9860758)		0,00001
S15-05501	APC	chr5:112128191	C/T	SNV	1	Deleterious	Loss-of-Function	COSM13130	16,8	62,0	p.Arg232Ter	369	7	NM_000038,5	c.694C>T	nonsense		0,89(COSM13130)	Pathogenic	0,00001
S15-05501	APC	chr5:112175521	TGG/TGA	SNV	1			COSM27577	46,5	53,0	p.Val1414Ile	114	16	NM_000038,5	c.4240G>A	missense	0	0,84(COSM27577)		0,00001
S15-05501	APC	chr5:112151238	C/A	SNV	1			COSM6854129	7,3	26,0	p.Ser294Tyr	355	9	NM_000038,5	c.881C>A	missense	0,874	0,96(COSM6854129)		0,00001
S15-05501	ATM	chr11:108123557	C/T	SNV	1			COSM6928996	13,2	97,0	p.Leu606Phe	736	12	NM_000051,3	c.1816C>T	missense	0,047	0,77(COSM6928996)		0,00001
S15-05501	ATM	chr11:108100002	C/T	SNV	1	Deleterious	Loss-of-Function	COSM4745867	16,5	85,0	p.Gln95Ter	514	4	NM_000051,3	c.283C>T	nonsense		0,97(COSM4745867)	Pathogenic	0,00001
S15-05501	ATM	chr11:108199848	A/G	SNV	1			COSM5008060	27,2	68,0	p.Gln2397Arg	250	49	NM_000051,3	c.7190A>G	missense	1	0,99(COSM5008060)	Uncertain significance	0,00001
S15-05501	ATM	chr11:108173675	G/A	SNV	1	Deleterious	Loss-of-Function	COSM4551819	10,3	55,0	p.Trp1805Ter	532	36	NM_000051,3	c.5415G>A	nonsense		0,99(COSM4551819)		0,00001

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S15-05501	ATM	chr11:108213964	C/T	SNV	1	Deleterious	Loss-of-Function	COSM3733461	11,4	49,0	p.Gln2762Ter	430	57	NM_000051,3	c.8284C>T	nonsense		0,99(COSM3733461)		0,00001
S15-05501	ATM	chr11:108155093	C/T	SNV	1			COSM4170229	11,7	34,0	p.Pro1296Ser	290	26	NM_000051,3	c.3886C>T	missense	1	0,99(COSM4170229)	Uncertain significance	0,00001
S15-05501	ATM	chr11:108119806	G/T	SNV	1			COSM6854116	9,4	29,0	p.Gln404His	309	9	NM_000051,3	c.1212G>T	missense	0,001	0,82(COSM6854116)		0,00001
S15-05501	ATM	chr11:108235935	C/T	SNV	1	Deleterious	Loss-of-Function	COSM428365	6,3	27,0	p.Arg2993Ter	431	62	NM_000051,3	c.8977C>T	nonsense		0,97(COSM428365)	Pathogenic/Likely pathogenic	0,00001
S15-05501	ATM	chr11:108141997	C/T	SNV	1			COSM5546583	7,0	22,0	p.Arg981Cys	316	20	NM_000051,3	c.2941C>T	missense	0,999	0,99(COSM5546583)	Uncertain significance	0,00001
S15-05501	BRAF	chr7:140481417	C/T	SNV	1	Hotspot	Gain-of-Function	COSM449	12,8	80,0	p.Gly464Glu	626	11	NM_004333,5	c.1391G>A	missense	1	0,99(COSM449)	Pathogenic/Likely pathogenic	0,00001
S15-05501	BRAF	chr7:140481471	G/A	SNV	1			COSM7448237	5,8	17,0	p.Ser446Leu	293	11	NM_004333,5	c.1337C>T	missense	0,274	0,99(COSM7448237)		0,00061
S15-05501	CDH1	chr16:68846144	C/A	SNV	1			COSM6624567	8,4	76,0	p.Pro372His	906	8	NM_004360,4	c.1115C>A	missense	0,999	0,70(COSM6624567)		0,00001
S15-05501	CHEK2	chr22:29092903	C/A	SNV	1			COSM6526453	9,2	37,0	p.Asp361Tyr	403	10	NM_007194,4	c.1081G>T	missense	0,006	0,86(COSM6526453)	Uncertain significance	0,00001
S15-05501	CHEK2	chr22:29091193	G/A	SNV	1	Deleterious	Loss-of-Function	COSM9180242	5,6	10,0	p.Gln433Ter	178	12	NM_007194,4	c.1297C>T	nonsense		0,85(COSM9180242)	Pathogenic	0,00672
S15-05501	CTNNB1	chr3:41266034	G/A	SNV	1			COSM6084	6,3	63,0	p.Asp11Asn	995	3	NM_001904,3	c.31G>A	missense	0,167	0,98(COSM6084)		0,00001
S15-05501	CTNNB1	chr3:41266131	C/T	SNV	1			COSM5699	12,6	14,0	p.Ala43Val	111	3	NM_001904,3	c.128C>T	missense	0,038	0,98(COSM5699)		0,00001
S15-05501	EGFR	chr7:55259512	G/A	SNV	1			COSM250050	5,5	41,0	p.Gly857Glu	752	21	NM_005228,4	c.2570G>A	missense	1	0,99(COSM250050)		0,00001
S15-05501	EGFR	chr7:55266424	G/A	SNV	1			COSM9515585	5,6	27,0	p.Glu906Lys	484	23	NM_005228,4	c.2716G>A	missense	1	0,99(COSM9515585)		0,00006
S15-05501	EGFR	chr7:55242480	AAA/GAA	SNV	1			COSM85993	11,3	25,0	p.Lys754Glu	222	19	NM_005228,4	c.2260A>G	missense	0,748	0,99(COSM85993)	Uncertain significance	0,00001
S15-05501	FANCD2	chr3:10133883	C/T	SNV	1			COSM9804315	29,0	29,0	p.Leu1266Phe	100	38	NM_033084,4	c.3796C>T. c.*44-10668G>A	missense, unknown	0,951	0,94(COSM9804315)		0,00001
S15-05501	GNAQ	chr9:80343561	G/A	SNV	1			COSM4605880	8,2	12,0	p.Ala253Val	146	6	NM_002072,4	c.758C>T	missense	0,997	0,99(COSM4605880)		0,00015
S15-05501	MSH2	chr2:47635554	C/T	SNV	1	Deleterious	Loss-of-Function	COSM8497017	7,3	39,0	p.Gln76Ter	532	2	NM_000251,2	c.226C>T	nonsense		0,91(COSM8497017)	Pathogenic	0,00001
S15-05501	MSH6	chr2:48027853	C/T	SNV	1	Deleterious	Loss-of-Function	COSM26816	38,8	94,0	p.Arg911Ter	242	4	NM_000179,2	c.2731C>T	nonsense		0,95(COSM26816)	Pathogenic	0,00001
S15-05501	NF1	chr17:29585383	C/T	SNV	1	Deleterious	Loss-of-Function	COSM4833971	80,9	110,0	p.Gln1399Ter	136	32	NM_001042492,2	c.4195C>T	nonsense		0,98(COSM4833971)	Pathogenic	0,00001
S15-05501	NF1	chr17:29528489	C/T	SNV	1	Deleterious	Loss-of-Function	COSM27353	11,2	36,0	p.Arg416Ter	322	11	NM_001042492,2	c.1246C>T	nonsense		0,90(COSM1217153)	Pathogenic	0,00001
S15-05501	NF1	chr17:29701036	G/A	SNV	1			COSM6950788	7,3	21,0	p.Asp2795Asn	286	58	NM_001042492,2	c.8383G>A	missense	0,999	0,98(COSM6950788)		0,00001
S15-05501	NF1	chr17:29657444	A/G	SNV	1			COSM3378123	7,4	19,0	p.Thr1914Ala	256	39	NM_001042492,2	c.5740A>G	missense	0,118	0,99(COSM3378123)		0,00001
S15-05501	NRAS	chr1:115251236	G/A	SNV	1			COSM7590891	12,4	69,0	p.Arg164Cys	556	5	NM_002524,4	c.490C>T	missense	0,989	0,98(COSM7590891)		0,00001
S15-05501	PIK3CA	chr3:178952074	G/A	SNV	1	Hotspot	Gain-of-Function	COSM29313	26,2	74,0	p.Met1043Ile	283	21	NM_006218,3	c.3129G>A	missense	0,138	0,97(COSM29313)	Likely pathogenic	0,00001
S15-05501	PIK3CA	chr3:178943785	C/T	SNV	1			COSM1041507	7,2	48,0	p.Arg818Cys	669	17	NM_006218,3	c.2452C>T	missense	0,992	0,91(COSM1041507)		0,00001
S15-05501	PIK3CA	chr3:178936091	G/A	SNV	1	Hotspot	Gain-of-Function	COSM763	5,3	31,0	p.Glu545Lys	581	10	NM_006218,3	c.1633G>A	missense	0,991	0,97(COSM763)	Pathogenic/Likely pathogenic	0,001
S15-05501	PIK3CA	chr3:178942555	A/G	SNV	1			COSM7455366	9,5	22,0	p.Ile788Val	232	16	NM_006218,3	c.2362A>G	missense	0,024	0,98(COSM7455366)		0,00001
S15-05501	PMS2	chr7:6038848	C/T	SNV	1			COSM6971277	21,0	31,0	p.Arg199His	148	6	NM_000535,6	c.596G>A	missense	1	0,99(COSM6971277)	Uncertain significance	0,00001
S15-05501	POLD1	chr19:50909524	G/A	SNV	1			COSM6938696	20,2	53,0	p.Arg443Gln	263	11	NM_001256849,1	c.1328G>A	missense	0,727	0,99(COSM6938696)		0,00001
S15-05501	POLE	chr12:133249853	G/A	SNV	1			COSM5031063	27,4	29,0	p.Thr457Met	106	14	NM_006231,3	c.1370C>T	missense	0,996	1,00(COSM5031,00063)	Uncertain significance	0,00001
S15-05501	PTEN	chr10:89685281	C/T	SNV	1			COSM87316	8,6	48,0	p.Ser59Leu	558	3	NM_000314,6	c.176C>T	missense	0,068	0,99(COSM87316)		0,00001
S15-05501	RB1	chr13:49050906	G/T	SNV	1	Deleterious	Loss-of-Function	COSM432458	5,7	12,0	p.Glu864Ter	211	25	NM_000321,2	c.2590G>T	nonsense		0,95(COSM432458)		0,00334
S15-05501	TP53	chr17:7574003	G/A	SNV	1	Deleterious	Loss-of-Function	COSM11073	12,8	139,0	p.Arg342Ter	1085	10	NM_000546,5	c.1024C>T	nonsense		0,73(COSM11073)	Pathogenic	0,00001
S15-05501	TP53	chr17:7578518	C/T	SNV	1	Hotspot	Loss-of-Function	COSM44821	37,8	90,0	p.Ala138Thr	238	5	NM_000546,5	c.412G>A	missense	0,998	1,00(COSM44821,00)		0,00001
S15-05501	TP53	chr17:7577093	C/T	SNV	1	Hotspot	Loss-of-Function	COSM44338	16,7	50,0	p.Arg282Gln	300	8	NM_000546,5	c.845G>A	missense	1	0,98(COSM44338)	Conflicting interpretations of pat	0,00001
S15-05501	TP53	chr17:7577121	G/A	SNV	1	Hotspot	Loss-of-Function	COSM10659	16,6	50,0	p.Arg273Cys	301	8	NM_000546,5	c.817C>T	missense	1	0,98(COSM10659)	Conflicting interpretations of pat	0,00001
S15-05501	TP53	chr17:7577556	C/T	SNV	1	Hotspot	Loss-of-Function	COSM10646	5,3	48,0	p.Cys242Tyr	913	7	NM_000546,5	c.725G>A	missense	1	0,99(COSM10646)	Pathogenic	0,0001
S15-05501	TP53	chr17:7578263	G/A	SNV	1	Deleterious	Loss-of-Function	COSM10705	5,6	32,0	p.Arg196Ter	570	6	NM_000546,5	c.586C>T	nonsense		0,96(COSM10705)	Pathogenic	0,00036
S15-05501	TP53	chr17:7578253	C/A	SNV	1			COSM44140	6,9	29,0	p.Gly199Val	423	6	NM_000546,5	c.596G>T	missense	1	0,99(COSM44140)	Likely pathogenic	0,00001
S15-05501	VHL	chr3:10191632	C/T	SNV	1	Deleterious	Loss-of-Function	COSM18382	31,1	88,0	p.Gln209Ter	283	3	NM_000551,3	c.625C>T	nonsense		0,81(COSM18382)		0,00001
S15-06320	CDKN2A	chr9:21971111	G/C	SNV	1	Hotspot	Loss-of-function	COSM4388670	17,8	295,0	p.His83Asp	1662	2	NM_001195132,1	c.247C>G	missense	1	0,98(COSM4388670)	Likely pathogenic	0,00001
S15-06320	KRAS	chr12:25380277	GA/TT	MNV	2	Hotspot	Gain-of-function	COSM549	11,4	226,9	p.Gln61Lys	1994	3	NM_033360,3	c.180_181delTCinsAA	missense	0,039	1,00(COSM87298)		0,00001
S15-06320	TP53	chr17:7577121	G/A	SNV	1	Hotspot	Loss-of-function	COSM10659	8,2	164,0	p.Arg273Cys	2000	8	NM_000546,5	c.817C>T	missense	1	0,98(COSM10659)	Conflicting interpretations of pat	0,00001
S15-06750	CDKN2A	chr9:21971111	G/C	SNV	1	Hotspot	Loss-of-function	COSM4388670	15,1	302,1	p.His83Asp	1998	2	NM_001195132,1	c.247C>G	missense	1	0,98(COSM4388670)	Likely pathogenic	0,00001
S15-06750	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	31,7	298,0	p.Gly12Asp	940	2	NM_033360,3	c.35G>A	missense	0,517	0,98 (COSM521)	Pathogenic	0,00001
S15-06750	TP53	chr17:7577556	C/T	SNV	1	Hotspot	Loss-of-function	COSM10646	32,6	605,0	p.Cys242Tyr	1858	7	NM_000546,5	c.725G>A	missense	1	0,99(COSM10646)	Pathogenic	0,00001
S15-06780	APC	chr5:112137039	G/A	SNV	1			COSM9106966	5,7	11,0	p.Gly265Arg	194	8	NM_000038,5	c.793G>A	missense	0,704	0,97(COSM9106966)		0,00474
S15-06780	APC	chr5:112176425	G/A	SNV	1			COSM6475471	7,1	10,0	p.Glu1712Lys	141	16	NM_000038,5	c.5134G>A	missense	0,02	0,94(COSM6475471)		0,00132
S15-06780	ARID2	chr12:46254606	C/T	SNV	1			COSM7340179	5,7	55,0	p.Pro1599Leu	974	16	NM_152641,3	c.4796C>T	missense	0,22	0,97(COSM7340179)		0,00001
S15-06780	ARID2	chr12:46245688	G/A	SNV	1			COSM6604638	5,9	20,0	p.Arg1261His	338	15	NM_152641,3	c.3782G>A	missense	1	0,99(COSM6604638)		0,00019
S15-06780	ARID2	chr12:46125084	C/T	SNV	1	Deleterious	Loss-of-Function	COSM5704452	6,5	15,0	p.Gln91Ter	231	3	NM_152641,3	c.271C>T	nonsense		0,97(COSM5704452)		0,00037
S15-06780	ATM	chr11:108186602	G/A	SNV	1			COSM5753585	5,1	32,0	p.Gly2020Asp	632	41	NM_000051,3	c.6059G>A	missense	1	0,99(COSM5753585)		0,00009
S15-06780	ATM	chr11:108186608	G/A	SNV	1			COSM4800231	5,1	32,0	p.Gly2022Asp	632	41	NM_000051,3	c.6065G>A	missense	1	0,99(COSM4800231)		0,00009
S15-06780	ATM	chr11:108180999	G/A	SNV	1			COSM1739752	5,7	20,0	p.Glu1959Lys	352	39	NM_000051,3	c.5875G>A	missense	1	1,00(COSM1,00739752)		0,00032
S15-06780	ATM	chr11:108121777	G/A	SNV	1			COSM8550543	7,0	15,0	p.Gly529Arg	214	10	NM_000051,3	c.1585G>A	missense	1	0,99(COSM8550543)		0,00016
S15-06780	BRIP1	chr17:59760893	C/T	SNV	1			COSM7652556	6,0	18,0	p.Glu1172Lys	300	20	NM_032043,2	c.3514G>A	missense	0,001	0,87(COSM7652556)		0,00031
S15-06780	CDH1	chr16:68847364	C/T	SNV	1			COSM3511252	5,7	22,0	p.Pro429Leu	383	9	NM_004360,4	c.1286C>T	missense	0,99	0,99(COSM3511252)	Uncertain significance	0,00016
S15-06780	FANCD2	chr3:10127575	G/A	SNV	1			COSM7154912	6,6	19,0	p.Glu1102Lys	287	33	NM_033084,4	c.3304G>A. c.*44-4360C>T	missense, unknown	0,818	O,84(COSM7154912)		0,00008
S15-06780	FGFR2	chr10:123243305	C/T	SNV	1			COSM1730961	5,4	12,0	p.Met736Ile	224	17	NM_000141,4	c.2208G>A	missense	1	0,97(COSM1730961)		0,00546
S15-06780	FGFR2	chr10:123298199	C/T	SNV	1			COSM29832	6,0	11,0	p.Glu219Lys	184	6	NM_000141,4	c.655G>A	missense	0,932	0,99(COSM29832)		0,00319
S15-06780	MSH2	chr2:47703556	G/A	SNV	1			COSM9133425	5,1	11,0	p.Val686Ile	215	13	NM_000251,2	c.2056G>A	missense	0,955	0,99(COSM9133425)		0,00978
S15-06780	MSH6	chr2:48027089	C/T	SNV	1			COSM6948227	5,6	12,0	p.Pro656Leu	215	4	NM_000179,2	c.1967C>T	missense	1	0,99(COSM6948227)		0,0039
S15-06780	NF1	chr17:29664545	C/T	SNV	1			COSM9207612	5,4	34,0	p.Thr2196Ile	628	43	NM_001042492,2	c.6587C>T	missense	0,033	0,98(COSM9207612)		0,00002
S15-06780	NF1	chr17:29663783	C/T	SNV	1			COSM1686252	5,1	32,0	p.Ser2093Phe	629	42	NM_001042492,2	c.6278C>T	missense	0,99	0,98(COSM1686252)		0,00009
S15-06780	NF1	chr17:29665080	G/A	SNV	1			COSM6915711	5,7	16,0	p.Ala2248Thr	279	45	NM_001042492,2	c.6742G>A	missense	1	0,99(COSM6915711)		0,00094
S15-06780	NF1	chr17:29562729	C/T	SNV	1			COSM5609530	5,9	15,0	p.Ser1270Phe	253	28	NM_001042492,2	c.3809C>T	missense	0,995	0,98(COSM5609530)		0,0009
S15-06780	POLE	chr12:133212606	G/A	SNV	1			COSM6282424	7,1	14,0	p.His1895Tyr	196	42	NM_006231,3	c.5683C>T	missense	0,029	0,99(COSM6282424)		0,00021
S15-06780	RAD51D	chr17:33428031	C/T	SNV	1			COSM4563742	5,2	14,0	p.Asp198Asn	268	7	NR_037714,1	c.592G>A	missense	0,988	0,90(COSM4563742)		0,00404
S15-06780	RB1	chr13:48954220	G/A	SNV	1			COSM1050	8,9	10,0	p.Ser474Asn	112	15	NM_000321,2	c.1421G>A	missense	1	0,98(COSM1050)		0,00025
S15-06780	TP53	chr17:7578406	C/T	SNV	1	Hotspot	Loss-of-Function	COSM10648	8,5	25,0	p.Arg175His	294	5	NM_000546,5	c.524G>A	missense	0,632	0,99(COSM10648	Pathogenic	0,00001
S16-01912	APC	chr5:112175207	TA/AA	SNV	1			COSM26697	42,2	831,9	p.Ile1307Lys	1970	16	NM_000038,5	c.3920T>A	missense	0,012	0,94(COSM26697)	Conflicting interpretations of pat	0,00001
S16-01912	CDH1	chr16:68847375	G/A	SNV	1			COSM239247	55,4	1107,0	p.Asp433Asn	1999	9	NM_004360,4	c.1297G>A	missense	0,135	0,86(COSM239247)	Conflicting interpretations of pat	0,00001
S16-01912	KIT	chr4:55593464	A/C	SNV	1			COSM28026	51,3	1019,0	p.Met541Leu	1988	10	NM_000222,2	c.1621A>C	missense	0,009	0,74(COSM28026)	Likely benign	0,00001
S16-01912	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	18,8	227,0	p.Gly12Asp	1205	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S16-01912	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,4	85,1	p.Leu114Val	1325	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S16-01912	TP53	chr17:7578416	C/A	SNV	1	Hotspot	Loss-of-function	COSM44240	15,8	57,0	p.Val172Phe	361	5	NM_000546,5	c.514G>T	missense	1	0,99(COSM44240)	Likely pathogenic	0,00001
S16-02610	APC	chr5:112102095	G/A	SNV	1			COSM5356439	15,3	17,0	p.Glu70Lys	111	3	NM_000038,5	c.208G>A	missense	0,99	0,99(COSM5356439)		0,00001

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S16-02610	MSH3	chr5:80063775	G/T	SNV	1			COSM5043262	17,2	20,0	p.Leu640Phe	116	14	NM_002439,4	c.1920G>T	missense	0,074	0,88(COSM5043262)		0,00001
S16-05115	ALK	chr2:29443675	C/T	SNV	1			COSM6226578	5,8	107,9	p.Arg1181His	1867	23	NM_004304,4	c.3542G>A	missense	0,966	0,98(COSM6226578)	Uncertain significance	0,00001
S16-05115	APC	chr5:112174580	G/T	SNV	1	Deleterious	Loss-of-function	COSM5009571	6,7	90,0	p.Glu1097Ter	1343	16	NM_000038,5	c.3289G>T	nonsense		0,97(COSM5009571)		0,00001
S16-05115	APC	chr5:112178211	C/T	SNV	1			COSM1183194	5,8	25,0	p.Ser2307Leu	432	16	NM_000038,5	c.6920C>T	missense	0,999	0,93(COSM1183194)		0,00006
S16-05115	ARID2	chr12:46287315	C/T	SNV	1	Deleterious	Loss-of-function	COSM1628614	5,7	106,0	p.Arg1754Ter	1869	19	NM_152641,3	c.5260C>T	nonsense		0,90(COSM1628614)		0,00001
S16-05115	ARID2	chr12:46244924	G/A	SNV	1			COSM8741210	6,4	95,0	p.Met1006Ile	1496	15	NM_152641,3	c.3018G>A	missense	0,801	0,93(COSM8741210)		0,00001
S16-05115	ARID2	chr12:46230572	G/A	SNV	1			COSM939496	9,1	87,0	p.Arg274Gln	955	8	NM_152641,3	c.821G>A	missense	1	1,00(COSM939496)		0,00001
S16-05115	ARID2	chr12:46231337	G/T	SNV	1	Deleterious	Loss-of-function	COSM131488	11,6	62,0	p.Glu393Ter	533	10	NM_152641,3	c.1177G>T	nonsense		0,99(COSM131488)		0,00001
S16-05115	ATM	chr11:108186751	G/T	SNV	1	Deleterious	Loss-of-function	COSM4411297	6,0	50,0	p.Glu2037Ter	836	42	NM_000051,3	c.6109G>T	nonsense		0,99(COSM4411297)		0,00001
S16-05115	EGFR	chr7:55249022	G/A	SNV	1			COSM13006	6,4	57,0	p.Val774Met	888	20	NM_005228,4	c.2320G>A	missense	1	0,97(COSM13006)		0,00001
S16-05115	EGFR	chr7:55249157	G/A	SNV	1			COSM7410341	6,1	42,0	p.Val819Met	685	20	NM_005228,4	c.2455G>A	missense	1	0,96(COSM7410341)		0,00001
S16-05115	FANCD2	chr3:10094114	G/A	SNV	1			COSM249507	8,2	80,0	p.Arg530Gln	972	18	NM_033084,4	c.1589G>A	missense	1	0,94(COSM249507)		0,00001
S16-05115	GNA11	chr19:3110285	G/A	SNV	1			COSM6672102	5,5	109,1	p.Arg92Gln	1998	2	NM_002067,4	c.275G>A	missense	0,008	0,97(COSM6672102)		0,00001
S16-05115	KIT	chr4:55598137	G/T	SNV	1			COSM1651756	5,5	57,9	p.Lys778Asn	1046	16	NM_000222,2	c.2334G>T	missense	1	0,97(COSM1651756)		0,00001
S16-05115	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	7,7	36,0	p.Gly12Asp	470	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S16-05115	MLH1	chr3:37042530	G/T	SNV	1			COSM6097410	5,7	38,0	p.Gly98Cys	667	3	NM_000249,3	c.292G>T	missense	1	0,99(COSM6097410)		0,00001
S16-05115	MSH2	chr2:47630442	G/A	SNV	1			COSM9113785	6,5	35,0	p.Asp38Asn	539	1	NM_000251,2	c.112G>A	missense	0,778	0,97(COSM9113785)		0,00001
S16-05115	MSH3	chr5:79974803	C/T	SNV	1			COSM1695912	6,7	65,0	p.Arg411Cys	975	8	NM_002439,4	c.1231C>T	missense	1	0,99(COSM1695912)		0,00001
S16-05115	MSH3	chr5:80160759	C/T	SNV	1			COSM9372944	6,3	55,0	p.Pro1043Leu	867	22	NM_002439,4	c.3128C>T	missense	0,125	0,82(COSM9372944)		0,00001
S16-05115	NF1	chr17:29665110	C/T	SNV	1	Deleterious	Loss-of-function	COSM215676	14,1	76,0	p.Arg2258Ter	540	45	NM_001042492,2	c.6772C>T	nonsense		0,94(COSM215676)	Pathogenic	0,00001
S16-05115	NF1	chr17:29562981	C/T	SNV	1	Deleterious	Loss-of-function	COSM24478	5,9	45,0	p.Arg1306Ter	759	29	NM_001042492,2	c.3916C>T	nonsense		0,91(COSM24478)	Pathogenic	0,00001
S16-05115	NF1	chr17:29559809	C/T	SNV	1			COSM96330	7,2	42,0	p.Arg1136Trp	580	26	NM_001042492,2	c.3406C>T	missense	0,993	0,96(COSM96330)		0,00001
S16-05115	PIK3CA	chr3:178951920	G/A	SNV	1			COSM249138	15,5	65,0	p.Arg992Gln	420	21	NM_006218,3	c.2975G>A	missense	0,999	0,99(COSM249138)		0,00001
S16-05115	POLD1	chr19:50918831	G/A	SNV	1			COSM6936628	6,1	31,0	p.Val901Met	510	21	NM_001256849,1	c.2701G>A	missense	1	0,96(COSM6936628)		0,00001
S16-05115	RB1	chr13:48881512	G/A	SNV	1	Deleterious	Loss-of-function	COSM13406	7,0	67,0	p.Trp78Ter	964	2	NM_000321,2	c.234G>A	nonsense		0,79(COSM13406)		0,00001
S16-05115	TP53	chr17:7578263	G/A	SNV	1	Deleterious	Loss-of-function	COSM10705	5,3	54,0	p.Arg196Ter	1018	6	NM_000546,5	c.586C>T	nonsense		0,96(COSM10705)	Pathogenic	0,00003
S16-05330	APC	chr5:112151261	C/T	SNV	1	Deleterious	Loss-of-function	COSM13862	11,4	53,0	p.Arg302Ter	467	9	NM_000038,5	c.904C>T	nonsense		0,97(COSM13862)	Pathogenic	0,00001
S16-05330	APC	chr5:112175457	C/A	SNV	1			COSM6940327	6,4	27,0	p.Ser1389Tyr	420	16	NM_000038,5	c.4166C>A	missense	1	0,97(COSM6940327)		0,00001
S16-05330	APC	chr5:112173995	G/T	SNV	1	Deleterious	Loss-of-function	COSM1178881	7,1	25,0	p.Glu902Ter	354	16	NM_000038,5	c.2704G>T	nonsense		1,00(COSM1178881)		0,00001
S16-05330	ARID2	chr12:46230679	C/T	SNV	1			COSM4041985	23,0	88,0	p.Arg310Cys	383	8	NM_152641,3	c.928C>T	missense	1	0,98(COSM4041985)		0,00001
S16-05330	ARID2	chr12:46287315	C/T	SNV	1	Deleterious	Loss-of-function	COSM1628614	10,5	46,0	p.Arg1754Ter	440	19	NM_152641,3	c.5260C>T	nonsense		0,90(COSM1628614)		0,00001
S16-05330	ATM	chr11:108115594	C/T	SNV	1	Deleterious	Loss-of-function	COSM1506643	38,8	107,0	p.Arg248Ter	276	7	NM_000051,3	c.742C>T	nonsense		0,95(COSM1506643)	Pathogenic/Likely pathogenic	0,00001
S16-05330	ATM	chr11:108121493	C/T	SNV	1			COSM6935823	23,2	68,0	p.Pro434Leu	293	10	NM_000051,3	c.1301C>T	missense	0,014	0,91(COSM6935823)		0,00001
S16-05330	CDKN2A	chr9:21971108	C/A	SNV	1	Hotspot	Loss-of-function	COSM13299	14,5	42,0	p.Asp84Tyr	289	2	NM_001195132,1	c.250G>T	missense	1	0,97(COSM13299)	Uncertain significance	0,00001
S16-05330	CTNNB1	chr3:41267237	G/A	SNV	1			COSM6854098	5,1	95,1	p.Arg274His	1868	6	NM_001904,3	c.821G>A	missense	1	0,98(COSM6854098)		0,00001
S16-05330	EGFR	chr7:55242480	CCG/CTG	SNV	1			COSM1168015	5,9	46,0	p.Pro753Leu	775	19	NM_005228,4	c.2258C>T	missense	0,995	0,99(COSM1168015)		0,00001
S16-05330	GNAQ	chr9:80412470	C/T	SNV	1			COSM6342236	17,8	86,0	p.Glu191Lys	482	4	NM_002072,4	c.571G>A	missense	1	0,98(COSM6342236)		0,00001
S16-05330	KIT	chr4:55603365	G/T	SNV	1			COSM5784409	19,2	51,0	p.Trp907Cys	266	20	NM_000222,2	c.2721G>T	missense	1	1,00(COSM5784409)		0,00001
S16-05330	KRAS	chr12:25380309	G/A	SNV	1			COSM6006382	10,4	51,0	p.Thr50Ile	490	3	NM_033360,3	c.149C>T	missense	0,022	0,99(COSM6006382)		0,00001
S16-05330	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	30,6	34,0	p.Gly12Asp	111	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S16-05330	MLH1	chr3:37048546	C/T	SNV	1	Deleterious	Loss-of-function	COSM8199824	13,7	126,0	p.Gln149Ter	917	5	NM_000249,3	c.445C>T	nonsense		0,99(COSM8199824)	Pathogenic	0,00001
S16-05330	MSH2	chr2:47672695	C/T	SNV	1	Deleterious	Loss-of-function	COSM3185924	13,0	52,0	p.Gln429Ter	400	8	NM_000251,2	c.1285C>T	nonsense		0,99(COSM3185924)	Pathogenic	0,00001
S16-05330	MSH2	chr2:47635624	G/T	SNV	1			COSM6923715	14,3	29,0	p.Arg99Ile	203	2	NM_000251,2	c.296G>T	missense	1	0,99(COSM6923715)		0,00001
S16-05330	MSH6	chr2:48028048	C/T	SNV	1			COSM6475181	11,7	15,0	p.Arg976Cys	128	4	NM_000179,2	c.2926C>T	missense	1	0,98(COSM6475181)	Conflicting interpretations of pat	0,00001
S16-05330	NF1	chr17:29562750	G/T	SNV	1			COSM7379433	6,6	49,0	p.Gly1277Val	739	28	NM_001042492,2	c.3830G>T	missense	0,997	0,99(COSM7379433)	Uncertain significance	0,00001
S16-05330	NF1	chr17:29701088	G/A	SNV	1			COSM4560429	34,5	48,0	p.Arg2812Gln	139	58	NM_001042492,2	c.8435G>A	missense	0,994	0,99(COSM4560429)		0,00001
S16-05330	PIK3CA	chr3:178952048	G/A	SNV	1	Hotspot	Gain-of-function	COSM27375	6,5	24,0	p.Ala1035Thr	371	21	NM_006218,3	c.3103G>A	missense	1	0,99(COSM27375)		0,00024
S16-05330	PMS2	chr7:6038813	G/A	SNV	1	Deleterious	Loss-of-function	COSM6751159	11,6	28,0	p.Arg211Ter	242	6	NM_000535,6	c.631C>T	nonsense		0,92(COSM6751159)	Pathogenic	0,00001
S16-05330	POLD1	chr19:50916702	G/A	SNV	1			COSM4444684	7,4	50,0	p.Arg725His	675	18	NM_001256849,1	c.2174G>A	missense	1	0,98(COSM4444684)		0,00001
S16-05330	POLE	chr12:133234459	G/A	SNV	1	Deleterious	Loss-of-function	COSM5881470	10,0	27,0	p.Arg1125Ter	269	27	NM_006231,3	c.3373C>T	nonsense		0,99(COSM5881470)	Uncertain significance	0,00001
S16-05330	RB1	chr13:48936983	C/T	SNV	1	Deleterious	Loss-of-function	COSM878	18,9	53,0	p.Arg251Ter	281	8	NM_000321,2	c.751C>T	nonsense		0,82(COSM878)	Pathogenic	0,00001
S16-05330	TP53	chr17:7578550	G/T	SNV	1	Hotspot	Loss-of-function	COSM43970	7,7	68,0	p.Ser127Tyr	879	5	NM_000546,5	c.380C>A	missense	1	1,00(COSM43970)		0,00001
S16-05330	VHL	chr3:10191566	G/A	SNV	1			COSM1757302	17,3	28,0	p.Asp187Asn	162	3	NM_000551,3	c.559G>A	missense	0,999	0,92(COSM1757302)		0,00001
S16-09088	ALK	chr2:29445439	C/T	SNV	1			COSM3962765	5,2	15,0	p.Glu1132Lys	291	21	NM_004304,4	c.3394G>A	missense	0,977	0,99(COSM3962765)		0,00351
S16-09088	APC	chr5:112176413	G/A	SNV	1			COSM9495228	6,2	18,0	p.Val1708Ile	291	16	NM_000038,5	c.5122G>A	missense	0	0,92(COSM9495228)		0,00021
S16-09088	CDH1	chr16:68867274	G/A	SNV	1			COSM972806	6,6	13,0	p.Glu841Lys	196	16	NM_004360,4	c.2521G>A	missense	0,999	0,97(COSM972806)	Uncertain significance	0,00064
S16-09088	FANCD2	chr3:10085242	G/A	SNV	1			COSM8308097	8,0	11,0	p.Arg355Lys	137	13	NM_033084,4	c.1064G>A	missense	0,725	0,96(COSM8308097)		0,00031
S16-09088	KIT	chr4:55602952	C/T	SNV	1			COSM6919154	7,8	16,0	p.Arg888Trp	204	19	NM_000222,2	c.2662C>T	missense	1	0,88(COSM6919154)		0,00003
S16-09088	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	21,7	28,0	p.Gly12Asp	129	2	NM_033360,3	c.35G>A	missense	0,517	0,98 (COSM521)	Pathogenic	0,00001
S16-09088	RB1	chr13:49039378	G/A	SNV	1			COSM4047930	6,9	15,0	p.Ser788Asn	218	23	NM_000321,2	c.2363G>A	missense	1	0,99(COSM4047930)		0,0002
S16-09088	SMAD4	chr18:48604809	C/T	SNV	1			COSM6985223	5,6	17,0	p.Pro544Leu	303	12	NM_005359,5	c.1631C>T	missense	0,154	0,99(COSM6985223)		0,0009
S17-00048	AKT3	chr1:243858916	G/A	SNV	1			COSM6982201	5,1	50,0	p.Pro50Leu	977	2	NM_005465,4	c.149C>T	missense	0,999	0,99(COSM6982201)		0,00001
S17-00048	APC	chr5:112177613	G/A	SNV	1			COSM6948248	5,9	68,0	p.Ala2108Thr	1144	16	NM_000038,5	c.6322G>A	missense	1	0,99(COSM6948248)	Uncertain significance	0,00001
S17-00048	APC	chr5:112175996	G/A	SNV	1			COSM5990842	7,7	64,0	p.Asp1569Asn	830	16	NM_000038,5	c.4705G>A	missense	0,978	0,98(COSM5990842)	Uncertain significance	0,00001
S17-00048	APC	chr5:112175639	C/T	SNV	1	Deleterious	Loss-of-Function	COSM13127	5,3	45,0	p.Arg1450Ter	856	16	NM_000038,5	c.4348C>T	nonsense		0,90(COSM13127)	Pathogenic	0,00016
S17-00048	APC	chr5:112175939	G/A	SNV	1			COSM5990838	5,3	45,0	p.Glu1550Lys	856	16	NM_000038,5	c.4648G>A	missense	0	0,86(COSM5990838)		0,00001
S17-00048	APC	chr5:112175945	G/T	SNV	1	Deleterious	Loss-of-Function	COSM41616	5,1	44,0	p.Glu1552Ter	859	16	NM_000038,5	c.4654G>T	nonsense		0,86(COSM41616)		0,00001
S17-00048	APC	chr5:112174658	C/T	SNV	1	Deleterious	Loss-of-Function	COSM1432255	5,1	21,0	p.Gln1123Ter	410	16	NM_000038,5	c.3367C>T	nonsense		0,83(COSM1432255)	Pathogenic	0,00092
S17-00048	ARID2	chr12:46240650	G/A	SNV	1			COSM5990677	8,5	74,0	p.Val504Ile	867	12	NM_152641,3	c.1510G>A	missense	0,231	0,97(COSM5990677)		0,00001
S17-00048	ATM	chr11:108155022	C/A	SNV	1			COSM6854120	5,2	103,1	p.Ala1272Asp	1998	26	NM_000051,3	c.3815C>A	missense	0,999	0,95(COSM6854120)		0,00001
S17-00048	ATM	chr11:108127029	G/A	SNV	1			COSM5024937	5,6	45,0	p.Glu738Lys	806	14	NM_000051,3	c.2212G>A	missense	0,045	0,97(COSM5024937)		0,00001
S17-00048	ATM	chr11:108196860	G/A	SNV	1			COSM8101523	5,2	34,0	p.Glu2295Lys	652	47	NM_000051,3	c.6883G>A	missense	1	0,99(COSM8101523)		0,00003
S17-00048	BAP1	chr3:52443589	G/A	SNV	1			COSM4991930	5,7	35,0	p.Leu35Phe, p.?	611	3	NM_004656,3	c.103C>T. c.-3307G>A	missense, unknown	1	0,97(COSM4991930)		0,00001
S17-00048	BAP1	chr3:52436848	C/T	SNV	1			COSM7335246	7,4	30,0	p.Ala644Thr	408	15	NM_004656,3	c.1930G>A	missense	0,916	0,95(COSM7335246)		0,00001
S17-00048	BAP1	chr3:52436341	C/T	SNV	1			COSM8548881	5,9	11,0	p.Arg718Gln	186	17	NM_004656,3	c.2153G>A	missense	0,105	0,98(COSM8548881)		0,00346
S17-00048	CDKN2A	chr9:21971066	G/A	SNV	1			COSM13787	9,5	19,0	p.His98Tyr	201	2	NM_001195132,1	c.292C>T	missense	0,999	0,88(COSM13787)	Uncertain significance	0,00001
S17-00048	EGFR	chr7:55249155	G/A	SNV	1			COSM23611	12,9	61,0	p.Cys818Tyr	472	20	NM_005228,4	c.2453G>A	missense	1	0,97(COSM23611)		0,00001
S17-00048	FGFR2	chr10:123243305	C/T	SNV	1			COSM1730961	5,2	35,0	p.Met736Ile	668	17	NM_000141,4	c.2208G>A	missense	1	0,97(COSM1730961)		0,00002

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S17-00048	GNA11	chr19:3119306	G/A	SNV	1			COSM6944083	5,5	19,0	p.Glu280Lys	348	6	NM_002067,4	c.838G>A	missense	0,006	0,97(COSM6944083)		0,00071
S17-00048	KIT	chr4:55594177	C/T	SNV	1			COSM19323	5,2	30,0	p.Pro627Leu	583	13	NM_000222,2	c.1880C>T	missense	0,996	0,95(COSM19323)		0,00011
S17-00048	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-Function	COSM521	6,7	37,0	p.Gly12Asp	552	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S17-00048	MSH2	chr2:47635614	C/T	SNV	1			COSM3939104	6,4	65,0	p.Arg96Cys	1023	2	NM_000251,2	c.286C>T	missense	1	0,89(COSM3939104)	Uncertain significance	0,00001
S17-00048	MSH2	chr2:47707933	G/A	SNV	1			COSM6961836	5,2	34,0	p.Glu853Lys	651	15	NM_000251,2	c.2557G>A	missense	0,12	0,99(COSM6961836)		0,00003
S17-00048	MSH3	chr5:80109475	G/A	SNV	1			COSM6475019	5,6	16,0	p.Ala910Thr	284	20	NM_002439,4	c.2728G>A	missense	0,474	0,99(COSM6475019)		0,00112
S17-00048	NF1	chr17:29562654	C/T	SNV	1			COSM7344871	6,8	115,0	p.Thr1245Ile	1681	28	NM_001042492,2	c.3734C>T	missense	0,792	0,98(COSM7344871)		0,00001
S17-00048	NF1	chr17:29665096	G/A	SNV	1			COSM1189437	7,2	98,0	p.Gly2253Glu	1354	45	NM_001042492,2	c.6758G>A	missense	1	0,99(COSM1189437)	Uncertain significance	0,00001
S17-00048	NRAS	chr1:115256524	C/T	SNV	1			COSM4385830	5,9	12,0	p.Glu63Lys	205	3	NM_002524,4	c.187G>A	missense	0,989	0,99(COSM4385830)		0,00264
S17-00048	NRAS	chr1:115256551	C/A	SNV	1			COSM8294045	5,5	11,0	p.Asp54Tyr	201	3	NM_002524,4	c.160G>T	missense	1	0,99(COSM8294045)		0,006
S17-00048	PIK3CA	chr3:178937006	G/A	SNV	1			COSM5347016	6,8	56,0	p.Glu563Lys	830	11	NM_006218,3	c.1687G>A	missense	0,988	0,99(COSM5347016)		0,00001
S17-00048	PMS2	chr7:6042259	G/A	SNV	1			COSM9348046	31,6	37,0	p.Thr121Ile	117	5	NM_000535,6	c.362C>T	missense	0,93	0,88(COSM9348046)		0,00001
S17-00048	PMS2	chr7:6042221	G/A	SNV	1	Deleterious	Loss-of-Function	COSM7665273	20,0	23,0	p.Arg134Ter	115	5	NM_000535,6	c.400C>T	nonsense		0,97(COSM7665273)	Pathogenic	0,00001
S17-00048	POLD1	chr19:50912456	C/T	SNV	1			COSM7340145	7,4	53,0	p.Pro657Leu	713	16	NM_001256849,1	c.1970C>T	missense	0,999	0,98(COSM7340145)		0,00001
S17-00048	POLD1	chr19:50906751	C/T	SNV	1			COSM5028601	6,4	25,0	p.Ala380Val	388	10	NM_001256849,1	c.1139C>T	missense	0,915	0,93(COSM5028601)		0,00001
S17-00048	POLD1	chr19:50918998	C/T	SNV	1			COSM8895765	10,7	13,0	p.Pro912Leu	121	22	NM_001256849,1	c.2735C>T	missense	0,531	0,99(COSM8895765)	Uncertain significance	0,00001
S17-00048	POLD1	chr19:50919007	C/T	SNV	1			COSM6964406	9,1	11,0	p.Ala915Val	121	22	NM_001256849,1	c.2744C>T	missense	0,999	0,99(COSM6964406)	Uncertain significance	0,0001
S17-00048	POLD1	chr19:50918997	C/T	SNV	1			COSM40483	9,1	11,0	p.Pro912Ser	121	22	NM_001256849,1	c.2734C>T	missense	0,576	0,99(COSM40483)	Uncertain significance	0,0001
S17-00048	PTEN	chr10:89720822	C/T	SNV	1			COSM1349616	5,9	69,0	p.Leu325Phe	1167	8	NM_000314,6	c.973C>T	missense	0,971	0,72(COSM1349616)		0,00001
S17-00048	PTEN	chr10:89725081	C/T	SNV	1			COSM5945178	5,6	55,0	p.Ser355Leu	984	9	NM_000314,6	c.1064C>T	missense	0,041	0,98(COSM5945178)		0,00001
S17-00048	RAD51D	chr17:33428031	C/T	SNV	1			COSM4563742	7,6	34,0	p.Asp198Asn	445	7	NR_037714,1	c.592G>A	missense	0,988	0,90(COSM4563742)		0,00001
S17-00048	RB1	chr13:49039501	C/T	SNV	1			COSM6939091	7,0	25,0	p.Ser829Leu	358	23	NM_000321,2	c.2486C>T	missense	0,998	0,99(COSM6939091)		0,00001
S17-00048	SMAD4	chr18:48581307	C/T	SNV	1			COSM6438211	10,9	41,0	p.Ser204Phe	375	5	NM_005359,5	c.611C>T	missense	0,242	0,99(COSM6438211)		0,00001
S17-00048	SMAD4	chr18:48591808	G/A	SNV	1			COSM14189	6,5	30,0	p.Cys324Tyr	462	9	NM_005359,5	c.971G>A	missense	1	1,00(COSM1,0041,0089)		0,00001
S17-00048	SMAD4	chr18:48575065	C/T	SNV	1			COSM9992576	6,6	14,0	p.Arg87Trp	213	3	NM_005359,5	c.259C>T	missense	1	0,99(COSM9992576)		0,00046
S17-00048	SMAD4	chr18:48575095	C/T	SNV	1			COSM8273522	6,6	14,0	p.Arg97Cys	213	3	NM_005359,5	c.289C>T	missense	1	0,98(COSM8273522)	Uncertain significance	0,00046
S17-00048	TP53	chr17:7577574	T/C	SNV	1	Hotspot	Loss-of-Function	COSM10731	7,3	53,0	p.Tyr236Cys	724	7	NM_000546,5	c.707A>G	missense	0,999	0,90(COSM10731)	Likely pathogenic	0,00001
S17-00048	TP53	chr17:7577584	G/A	SNV	1			COSM44705	6,6	48,0	p.His233Tyr	724	7	NM_000546,5	c.697C>T	missense	0,804	0,96(COSM44705)		0,00001
S17-00048	TP53	chr17:7578274	TGA/TAA	SNV	1	Deleterious	Loss-of-Function	COSM10733	6,8	23,0	p.Gln192Ter	340	6	NM_000546,5	c.574C>T	nonsense		0,93(COSM10733)	Pathogenic	0,01636
S17-04055	ARID2	chr12:46230679	C/T	SNV	1			COSM4041985	5,6	32,0	p.Arg310Cys	567	8	NM_152641,3	c.928C>T	missense	1	0,98(COSM4041985)		0,00001
S17-04055	CDK4	chr12:58144521	C/T	SNV	1			COSM6914569	6,8	20,0	p.Glu184Lys	293	5	NM_000075,3	c.550G>A	missense	1	0,95(COSM6914569)	Uncertain significance	0,00003
S17-04055	KRAS	chr12:25398284	CC/AC	SNV	1	Hotspot	Gain-of-function	COSM520	15,0	27,0	p.Gly12Val	180	2	NM_033360,3	c.35G>T	missense	0,999	0,98(COSM520)	Pathogenic	0,00001
S17-04055	MLH1	chr3:37042536	C/T	SNV	1	Deleterious	Loss-of-function	COSM29727	9,5	29,0	p.Arg100Ter	304	3	NM_000249,3	c.298C>T	nonsense		0,88(COSM29727)	Pathogenic	0,00001
S17-04055	NF1	chr17:29562668	C/T	SNV	1			COSM436322	16,4	211,0	p.Arg1250Trp	1290	28	NM_001042492,2	c.3748C>T	missense	1	0,96(COSM436322)	Uncertain significance	0,00001
S17-04055	PTEN	chr10:89720727	G/T	SNV	1			COSM1349605	7,6	26,0	p.Gly293Val	341	8	NM_000314,6	c.878G>T	missense	1	1,00(COSM1,00349605)		0,00001
S17-04055	PTEN	chr10:89720768	G/T	SNV	1	Deleterious	Loss-of-function	COSM4718706	5,2	18,0	p.Glu307Ter	345	8	NM_000314,6	c.919G>T	nonsense		0,99(COSM4718706)	Pathogenic	0,00153
S17-04055	RB1	chr13:49054142	C/T	SNV	1	Deleterious	Loss-of-function	COSM7685017	5,8	50,0	p.Arg908Ter	867	27	NM_000321,2	c.2722C>T	nonsense		0,89(COSM7685017)		0,00001
S17-04055	SMAD4	chr18:48575194	C/T	SNV	1			COSM33139	7,1	20,0	p.Pro130Ser	281	3	NM_005359,5	c.388C>T	missense	1	0,98(COSM33139)	Uncertain significance	0,00001
S17-04055	TP53	chr17:7579358	CG/C	INDEL	1	Deleterious	Loss-of-function	COSM44669	22,7	443,0	p.Arg110ValfsTer13	1950	4	NM_000546,5	c.328delC	frameshiftDeletion		1,00(COSM44669)	Pathogenic	0,00001
S17-05387	APC	chr5:112173798	C/A	SNV	1	Deleterious	Loss-of-function	COSM4168332	5,4	18,0	p.Ser836Ter	334	16	NM_000038,5	c.2507C>A	nonsense		0,97(COSM4168332)		0,00105
S17-05387	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	35,9	35,9	p.Gly12Asp	100	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S17-05387	PIK3CA	chr3:178948079	C/T	SNV	1			COSM5074888	9,9	24,0	p.Arg951Cys	243	20	NM_006218,3	c.2851C>T	missense	1	0,96(COSM5074888)		0,00001
S17-05387	PTEN	chr10:89720730	G/A	SNV	1			COSM1717478	11,7	12,0	p.Ser294Asn	103	8	NM_000314,6	c.881G>A	missense	0,175	0,97(COSM1717478)	Uncertain significance	0,00001
S17-05387	TP53	chr17:7577539	G/A	SNV	1	Hotspot	Loss-of-function	COSM10656	8,6	10,0	p.Arg248Trp	116	7	NM_000546,5	c.742C>T	missense	1	0,94(COSM10656)	Pathogenic	0,00117
S17-06560	EGFR	chr7:55259448	C/T	SNV	1	Hotspot	Gain-of-Function	COSM28604	8,8	14,0	p.Arg836Cys	159	21	NM_005228,4	c.2506C>T	missense	1	0,95(COSM28604)		0,00016
S17-06560	FGFR2	chr10:123279618	C/T	SNV	1			COSM6197915	6,9	21,0	p.Gly272Arg	303	7	NM_000141,4	c.814G>A	missense	0,007	0,90(COSM6197915)		0,00002
S17-06560	NF1	chr17:29562669	G/A	SNV	1			COSM6030784	8,8	14,0	p.Arg1250Gln	160	28	NM_001042492,2	c.3749G>A	missense	0,995	0,99(COSM6030784)	Uncertain significance	0,00002
S17-07604	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	49,0	116,0	p.Gly12Asp	237	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S17-08807	AKT3	chr1:243777028	G/A	SNV	1			COSM4990545	6,7	41,0	p.Ser214Phe	613	7	NM_005465,4	c.641C>T	missense	1	0,98(COSM4990545)		0,00001
S17-08807	ALK	chr2:29432665	G/A	SNV	1			COSM442798	6,2	34,0	p.Arg1275Ter	545	25	NM_004304,4	c.3823C>T	nonsense		0,93(COSM442798)	Uncertain significance	0,00001
S17-08807	APC	chr5:112175303	C/T	SNV	1	Deleterious	Loss-of-Function	COSM13129	5,3	83,0	p.Gln1338Ter	1560	16	NM_000038,5	c.4012C>T	nonsense		0,90(COSM13129)	Pathogenic	0,00001
S17-08807	APC	chr5:112090719	G/A	SNV	1			COSM6475381	5,1	82,0	p.Met44Ile	1605	2	NM_000038,5	c.132G>A	missense	0,99	0,99(COSM6475381)		0,00001
S17-08807	APC	chr5:112173465	C/T	SNV	1			COSM1059565	5,4	77,0	p.Ala725Val	1436	16	NM_000038,5	c.2174C>T	missense	1	0,99(COSM1059565)		0,00001
S17-08807	APC	chr5:112175376	C/T	SNV	1			COSM30778	6,2	76,0	p.Ser1362Phe	1234	16	NM_000038,5	c.4085C>T	missense	0,769	0,94(COSM30778)		0,00001
S17-08807	APC	chr5:112151204	C/T	SNV	1	Deleterious	Loss-of-Function	COSM19679	15,4	68,0	p.Arg283Ter	441	9	NM_000038,5	c.847C>T	nonsense		0,98(COSM19679)	Pathogenic	0,00001
S17-08807	APC	chr5:112175876	C/T	SNV	1	Deleterious	Loss-of-Function	COSM1183187	10,3	54,0	p.Gln1529Ter	522	16	NM_000038,5	c.4585C>T	nonsense		0,87(COSM1183187)	Pathogenic	0,00001
S17-08807	APC	chr5:112137039	G/A	SNV	1			COSM9106966	11,1	53,0	p.Gly265Arg	477	8	NM_000038,5	c.793G>A	missense	0,704	0,97(COSM9106966)		0,00001
S17-08807	APC	chr5:112170811	G/A	SNV	1			COSM6475370	10,4	43,0	p.Gly636Asp	413	15	NM_000038,5	c.1907G>A	missense	1	0,99(COSM6475370)		0,00001
S17-08807	APC	chr5:112178211	C/T	SNV	1			COSM1183194	8,7	40,0	p.Ser2307Leu	462	16	NM_000038,5	c.6920C>T	missense	0,999	0,93(COSM1183194)	Uncertain significance	0,00001
S17-08807	APC	chr5:112173893	G/T	SNV	1	Deleterious	Loss-of-Function	COSM98383	9,6	36,0	p.Glu868Ter	374	16	NM_000038,5	c.2602G>T	nonsense		1(COSM98383)		0,00001
S17-08807	APC	chr5:112179632	G/A	SNV	1			COSM6475451	8,7	31,0	p.Val2781Met	356	16	NM_000038,5	c.8341G>A	missense	1	0,99(COSM6475451)		0,00001
S17-08807	ARID2	chr12:46245067	C/T	SNV	1			COSM5922947	7,2	80,0	p.Ser1054Phe	1114	15	NM_152641,3	c.3161C>T	missense	0,911	0,96(COSM5922947)		0,00001
S17-08807	ARID2	chr12:46230549	G/A	SNV	1	Deleterious	Loss-of-Function	COSM4990225	5,8	74,0	p.Trp266Ter	1280	8	NM_152641,3	c.798G>A	nonsense		0,98(COSM4990225)		0,00001
S17-08807	ARID2	chr12:46230676	A/G	SNV	1			COSM266035	7,6	72,0	p.Asn309Asp	945	8	NM_152641,3	c.925A>G	missense	0,997	0,97(COSM266035)		0,00001
S17-08807	ARID2	chr12:46244931	G/A	SNV	1			COSM1245457	7,7	70,0	p.Val1009Met	908	15	NM_152641,3	c.3025G>A	missense	0,493	0,93(COSM1245457)		0,00001
S17-08807	ARID2	chr12:46205322	C/T	SNV	1			COSM6948449	6,6	56,0	p.His136Tyr	854	4	NM_152641,3	c.406C>T	missense	0,92	0,99(COSM6948449)		0,00001
S17-08807	ARID2	chr12:46205332	C/A	SNV	1	Deleterious	Loss-of-Function	COSM6974469	5,4	46,0	p.Ser139Ter	855	4	NM_152641,3	c.416C>A	nonsense		0,99(COSM6974469)		0,00001
S17-08807	ARID2	chr12:46243442	G/A	SNV	1			COSM4663268	10,9	38,0	p.Val599Ile	350	14	NM_152641,3	c.1795G>A	missense	0,894	0,95(COSM4663268)		0,00001
S17-08807	ARID2	chr12:46243487	C/T	SNV	1	Deleterious	Loss-of-Function	COSM6972311	6,6	36,0	p.Gln614Ter	546	14	NM_152641,3	c.1840C>T	nonsense		0,99(COSM6972311)		0,00001
S17-08807	ATM	chr11:108214004	C/T	SNV	1			COSM5413308	7,2	144,0	p.Pro2775Leu	2000	57	NM_000051,3	c.8324C>T	missense	1	0,99(COSM5413308)		0,00001
S17-08807	BAP1	chr3:52440858	G/A	SNV	1			COSM5527250	16,1	77,0	p.Leu216Phe	479	8	NM_004656,3	c.646C>T	missense	0,997	0,99(COSM5527250)		0,00001
S17-08807	BRIP1	chr17:59770827	C/T	SNV	1			COSM6855320	6,7	79,0	p.Asp847Asn	1181	18	NM_032043,2	c.2539G>A	missense	0,045	0,96(COSM6855320)	Uncertain significance	0,00001
S17-08807	CHEK2	chr22:29121084	G/A	SNV	1			COSM6432552	5,2	104,0	p.Ala158Val	2000	4	NM_007194,4	c.473C>T	missense	0,001	0,93(COSM6432552)	Uncertain significance	0,00001
S17-08807	EGFR	chr7:55221843	C/T	SNV	1			COSM9446911	7,0	32,0	p.Pro296Leu	457	7	NM_005228,4	c.887C>T	missense	1	0,99(COSM9446911)		0,00001
S17-08807	GNAQ	chr9:80336364	C/T	SNV	1			COSM4834569	9,3	37,0	p.Asp319Asn	397	7	NM_002072,4	c.955G>A	missense	0,004	0,98(COSM4834569)		0,00001
S17-08807	KIT	chr4:55593644	ACA/ATA	SNV	1			COSM1287	9,3	114,0	p.Thr574Ile	1223	11	NM_000222,2	c.1721C>T	missense	0,971	0,93(COSM1287)	Uncertain significance	0,00001
S17-08807	KIT	chr4:55602694	G/A	SNV	1			COSM1324	5,1	47,0	p.Glu839Lys	927	18	NM_000222,2	c.2515G>A	missense	1	0,99(COSM1324)	Pathogenic/Likely pathogenic	0,00001
S17-08807	KRAS	chr12:25398284	CC/AC	SNV	1	Hotspot	Gain-of-Function	COSM520	5,2	20,0	p.Gly12Val	387	2	NM_033360,3	c.35G>T	missense	0,999	0,98(COSM520)	Pathogenic	0,00803

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S17-08807	MLH1	chr3:37089095	G/A	SNV	1			COSM5685374	5,4	78,1	p.Gly606Glu	1443	16	NM_000249,3	c.1817G>A	missense	0,004	0,94(COSM5685374)		0,00001
S17-08807	MLH1	chr3:37061853	G/T	SNV	1	Deleterious	Loss-of-Function	COSM730237	5,9	14,0	p.Glu313Ter	238	11	NM_000249,3	c.937G>T	nonsense		1(COSM730237)		0,00131
S17-08807	MSH2	chr2:47657029	C/T	SNV	1	Deleterious	Loss-of-Function	COSM7508782	9,5	124,1	p.Gln409Ter	1310	7	NM_000251,2	c.1225C>T	nonsense		0,93(COSM7508782)	Pathogenic	0,00001
S17-08807	MSH6	chr2:48025901	G/T	SNV	1			COSM6542559	5,8	43,0	p.Gly260Val	738	4	NM_000179,2	c.779G>T	missense	0,999	0,94(COSM6542559)		0,00001
S17-08807	MSH6	chr2:48018188	G/A	SNV	1			COSM4094430	5,3	22,0	p.Arg128His	418	2	NM_000179,2	c.383G>A	missense	0,606	0,94(COSM4094430)	Uncertain significance	0,00052
S17-08807	NF1	chr17:29560088	C/T	SNV	1	Deleterious	Loss-of-Function	COSM6963110	7,3	117,0	p.Gln1189Ter	1607	27	NM_001042492,2	c.3565C>T	nonsense		0,99(COSM6963110)	Pathogenic	0,00001
S17-08807	NF1	chr17:29557384	C/T	SNV	1	Deleterious	Loss-of-Function	COSM5049807	13,9	58,0	p.Gln1033Ter	417	23	NM_001042492,2	c.3097C>T	nonsense		0,99(COSM5049807)	Pathogenic	0,00001
S17-08807	NRAS	chr1:115252345	G/A	SNV	1			COSM6903912	8,7	46,0	p.Gln99Ter	530	4	NM_002524,4	c.295C>T	nonsense		0,98(COSM6903912)		0,00001
S17-08807	PIK3CA	chr3:178917681	G/A	SNV	1			COSM4991881	15,6	88,0	p.Asp186Asn	566	3	NM_006218,3	c.556G>A	missense	0,921	0,91(COSM4991881)		0,00001
S17-08807	PIK3CA	chr3:178952100	C/T	SNV	1			COSM33601	5,2	64,0	p.Thr1052Ile	1221	21	NM_006218,3	c.3155C>T	missense	0,972	0,95(COSM33601)		0,00001
S17-08807	POLD1	chr19:50912919	C/T	SNV	1			COSM6955592	9,8	20,0	p.Ser717Leu	204	17	NM_001256849,1	c.2150C>T	missense	0,998	0,91(COSM6955592)		0,00001
S17-08807	POLE	chr12:133219848	G/A	SNV	1			COSM9678406	11,5	67,0	p.Pro1505Ser	581	35	NM_006231,3	c.4513C>T	missense	0,129	1(COSM9678406)		0,00001
S17-08807	POLE	chr12:133210787	G/A	SNV	1			COSM9798411	6,7	42,0	p.Leu1997Phe	629	43	NM_006231,3	c.5989C>T	missense	0,964	0,96(COSM9798411)		0,00001
S17-08807	POLE	chr12:133220098	CCA/C	INDEL	2	Deleterious	Loss-of-Function	COSM1745059	7,1	25,0	p.Val1446GlyfsTer3	354	34	NM_006231,3	c.4337_4338delTG	frameshiftDeletion		1,00(COSM1745059)	Uncertain significance	0,00004
S17-08807	POLE	chr12:133219913	C/T	SNV	1			COSM5840587	6,5	16,0	p.Ser1483Asn	245	35	NM_006231,3	c.4448G>A	missense	0,012	0,98(COSM5840587)		0,00023
S17-08807	POLE	chr12:133254205	G/A	SNV	1			COSM9806552	6,4	13,0	p.Pro227Ser	202	7	NM_006231,3	c.679C>T	missense	0,998	1(COSM9806552)		0,00082
S17-08807	PTEN	chr10:89711888	C/T	SNV	1			COSM4990009	12,4	73,0	p.Pro169Leu	588	6	NM_000314,6	c.506C>T	missense	1	0,95(COSM4990009)		0,00001
S17-08807	PTEN	chr10:89692995	C/T	SNV	1			COSM14245	5,7	27,0	p.Thr160Ile	476	5	NM_000314,6	c.479C>T	missense	1	0,98(COSM14245)	Likely pathogenic	0,00004
S17-08807	PTEN	chr10:89692805	C/T	SNV	1	Deleterious	Loss-of-Function	COSM6868591	5,7	24,0	p.Gln97Ter	423	5	NM_000314,6	c.289C>T	nonsense		0,98(COSM6868591)	Pathogenic	0,00011
S17-08807	PTEN	chr10:89653800	T/C	SNV	1			COSM4408405	6,0	23,0	p.Ile33Thr	381	2	NM_000314,6	c.98T>C	missense	0,997	0,97(COSM4408405)	Uncertain significance	0,00006
S17-08807	RAD51C	chr17:56774132	G/T	SNV	1			COSM6934992	5,9	25,0	p.Glu161Asp	422	3	NM_058216,2	c.483G>T	missense	0,995	0,75(COSM6934992)		0,00004
S17-08807	RB1	chr13:49030410	G/A	SNV	1			COSM6966618	9,8	32,0	p.Glu629Lys	326	19	NM_000321,2	c.1885G>A	missense	0,146	0,97(COSM6966618)		0,00001
S17-08807	SMAD4	chr18:48604709	C/T	SNV	1			COSM9233224	5,2	92,9	p.Pro511Ser	1801	12	NM_005359,5	c.1531C>T	missense	0,005	0,98(COSM9233224)		0,00001
S17-08807	SMAD4	chr18:48575225	G/A	SNV	1			COSM5610595	10,5	58,0	p.Gly140Glu	554	3	NM_005359,5	c.419G>A	missense	0,998	1,00(COSM561,000595)		0,00001
S17-08807	TP53	chr17:7578508	C/T	SNV	1	Hotspot	Loss-of-Function	COSM43708	11,5	81,0	p.Cys141Tyr	706	5	NM_000546,5	c.422G>A	missense	1	0,99(COSM43708)	Pathogenic/Likely pathogenic	0,00001
S17-08807	TP53	chr17:7577093	C/T	SNV	1	Hotspot	Loss-of-Function	COSM44338	5,8	77,1	p.Arg282Gln	1340	8	NM_000546,5	c.845G>A	missense	1	0,98(COSM44338)	Conflicting interpretations of pat	0,00001
S17-08807	TP53	chr17:7577105	G/A	SNV	1	Hotspot	Loss-of-Function	COSM10863	5,8	77,0	p.Pro278Leu	1337	8	NM_000546,5	c.833C>T	missense	1	1,00(COSM1,000863)	Pathogenic	0,00001
S17-08807	TP53	chr17:7577139	G/A	SNV	1			COSM11183	12,9	76,0	p.Arg267Trp	588	8	NM_000546,5	c.799C>T	missense	0,979	0,98(COSM11183)	Conflicting interpretations of pat	0,00001
S17-08807	TP53	chr17:7578212	G/A	SNV	1	Deleterious	Loss-of-Function	COSM10654	13,8	60,0	p.Arg213Ter	436	6	NM_000546,5	c.637C>T	nonsense		0,95(COSM10654)	Pathogenic	0,00001
S17-08807	TP53	chr17:7577599	C/A	SNV	1			COSM45786	10,9	50,0	p.Asp228Tyr	459	7	NM_000546,5	c.682G>T	missense	0,912	1,00(COSM45786)		0,00001
S17-08807	VHL	chr3:10191497	C/T	SNV	1	Deleterious	Loss-of-Function	COSM14397	5,3	52,0	p.Gln164Ter	975	3	NM_000551,3	c.490C>T	nonsense		0,90(COSM14397)	Pathogenic	0,00001
S18-00115	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,1	13,0	p.Leu114Val	213	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00134
S18-00728	APC	chr5:112174888	G/T	SNV	1			COSM6602058	5,3	48,0	p.Lys1199Asn	901	16	NM_000038,5	c.3597G>T	missense	0,006	0,91(COSM6602058)		0,00001
S18-00728	KRAS	chr12:25398284	CC/AC	SNV	1	Hotspot	Gain-of-function	COSM520	8,0	40,0	p.Gly12Val	498	2	NM_033360,3	c.35G>T	missense	0,999	0,98(COSM520)	Pathogenic	0,00001
S18-00728	SMAD4	chr18:48604747	C/A	SNV	1	Deleterious	Loss-of-function	COSM9101276	5,7	48,0	p.Cys523Ter	846	12	NM_005359,5	c.1569C>A	nonsense		0,94(COSM9101276)		0,00001
S18-00728	TP53	chr17:7574003	G/A	SNV	1	Deleterious	Loss-of-function	COSM11073	6,2	124,0	p.Arg342Ter	2000	10	NM_000546,5	c.1024C>T	nonsense		0,73(COSM11073)	Pathogenic	0,00001
S18-01550	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	7,2	104,0	p.Leu114Val	1438	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S18-02626	CDKN2A	chr9:21970971	G/T	SNV	1	Deleterious	Loss-of-function	COSM28562	46,6	234,0	p.Tyr129Ter	502	2	NM_001195132,1	c.387C>A	nonsense		0,89(COSM28562)		0,00001
S18-02626	KRAS	chr12:25398284	CC/AC	SNV	1	Hotspot	Gain-of-function	COSM520	46,1	583,0	p.Gly12Val	1264	2	NM_033360,3	c.35G>T	missense	0,999	0,98(COSM520)	Pathogenic	0,00001
S18-02626	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,2	81,0	p.Leu114Val	1303	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S18-02626	TP53	chr17:7577539	G/A	SNV	1	Hotspot	Loss-of-function	COSM10656	54,0	1080,0	p.Arg248Trp	2000	7	NM_000546,5	c.742C>T	missense	1	0,94(COSM10656)	Pathogenic	0,00001
S18-02712	ALK	chr2:29436869	C/T	SNV	1			COSM1690369	5,8	26,0	p.Glu1242Lys	449	24	NM_004304,4	c.3724G>A	missense	0,999	0,99(COSM1690369)		0,00004
S18-02712	APC	chr5:112162891	C/T	SNV	1	Deleterious	Loss-of-function	COSM29364	12,8	41,0	p.Arg499Ter	320	12	NM_000038,5	c.1495C>T	nonsense		0,91(COSM29364)	Pathogenic	0,00001
S18-02712	APC	chr5:112173949	G/T	SNV	1			COSM1432214	6,2	23,0	p.Gln886His	372	16	NM_000038,5	c.2658G>T	missense	0,997	0,97(COSM1432214)	Conflicting interpretations of pat	0,00004
S18-02712	APC	chr5:112173648	G/A	SNV	1			COSM8516283	9,3	21,0	p.Arg786His	227	16	NM_000038,5	c.2357G>A	missense	0,998	0,99 (COSM8516283)	Uncertain significance	0,00001
S18-02712	ARID2	chr12:46230604	C/T	SNV	1			COSM189021	9,0	40,0	p.Arg285Trp	443	8	NM_152641,3	c.853C>T	missense	1	0,98(COSM189021)		0,00001
S18-02712	ARID2	chr12:46287446	C/T	SNV	1	Deleterious	Loss-of-function	COSM1628616	11,0	26,0	p.Arg1769Ter	236	20	NM_152641,3	c.5305C>T	nonsense		0,87(COSM1628616)	Pathogenic	0,00001
S18-02712	ATM	chr11:108188115	G/A	SNV	1			COSM6916987	8,6	27,0	p.Gly2072Arg	314	43	NM_000051,3	c.6214G>A	missense	1	0,98(COSM6916987)	Uncertain significance	0,00001
S18-02712	ATM	chr11:108236086	C/T	SNV	1	Hotspot	Loss-of-function	COSM21642	5,8	23,0	p.Arg3008Cys	395	63	NM_000051,3	c.9022C>T	missense	1	0,98(COSM21642)	Pathogenic/Likely pathogenic	0,00118
S18-02712	ATM	chr11:108137973	G/T	SNV	1	Deleterious	Loss-of-function	COSM6201645	7,3	19,0	p.Glu848Ter	259	17	NM_000051,3	c.2542G>T	nonsense		0,95(COSM6201645)	Likely pathogenic	0,00002
S18-02712	BAP1	chr3:52436392	C/T	SNV	1			COSM9231255	10,2	24,0	p.Arg701His	236	17	NM_004656,3	c.2102G>A	missense	0,995	0,96 (COSM9231255)		0,00001
S18-02712	BRAF	chr7:140482874	C/T	SNV	1			COSM4188569	8,1	24,0	p.Gly421Arg	298	10	NM_004333,5	c.1261G>A	missense	0,086	0,94(COSM4188569)		0,00001
S18-02712	CDH1	chr16:68863587	C/A	SNV	1			COSM8202963	5,4	17,0	p.Leu776Met	317	15	NM_004360,4	c.2326C>A	missense	1	0,98 (COSM8202963)		0,00146
S18-02712	CDKN2A	chr9:21971166	C/CTGCT	INDEL	4	Deleterious	Loss-of-function	(COSM6985610	19,4	39,0	p.Leu65AlafsTer56	201	2	NM_001195132,1	c.191_192insAGCA	frameshiftInsertion		1,00(COSM6985610)		0,00001
S18-02712	EGFR	chr7:55211097	G/A	SNV	1			COSM174732	49,5	51,0	p.Glu114Lys	103	3	NM_005228,4	c.340G>A	missense	0,019	0,98(COSM174732)		0,00001
S18-02712	EGFR	chr7:55227854	G/A	SNV	1			COSM1090874	13,0	41,0	p.Val441Ile	316	12	NM_005228,4	c.1321G>A	missense	0,072	0,92(COSM1090874)		0,00001
S18-02712	EGFR	chr7:55242451	C/T	SNV	1			COSM6196862	5,3	31,0	p.Pro741Ser	582	19	NM_005228,4	c.2221C>T	missense	1	0,99(COSM6196862)		0,00005
S18-02712	FANCD2	chr3:10138146	G/A	SNV	1			COSM6880911	23,2	29,0	p.Arg1392Gln	125	42	NM_033084,4	c.4175G>A.	missense, unknown	1	0,99(COSM6880911)		0,00001
S18-02712	FGFR2	chr10:123298199	C/T	SNV	1			COSM29832	5,3	24,0	p.Glu219Lys	456	6	NM_000141,4	c.655G>A	missense	0,932	0,99(COSM29832)		0,00032
S18-02712	GNAQ	chr9:80336333	G/A	SNV	1			COSM3218443	13,6	36,0	p.Thr329Met	265	7	NM_002072,4	c.986C>T	missense	1	0,99 (COSM3218443)		0,00001
S18-02712	GNAQ	chr9:80343561	G/A	SNV	1			COSM4605880	7,9	14,0	p.Ala253Val	178	6	NM_002072,4	c.758C>T	missense	0,997	0,99(COSM4605880)		0,00008
S18-02712	MSH2	chr2:47637430	G/T	SNV	1			COSM7795183	11,9	54,0	p.Glu188Asp	454	3	NM_000251,2	c.564G>T	missense	1	0,94 (COSM7795183)		0,00001
S18-02712	MSH2	chr2:47690259	G/T	SNV	1			COSM1668896	6,0	23,0	p.Met492Ile	383	9	NM_000251,2	c.1476G>T	missense	0,019	0,99(COSM1668896)		0,00006
S18-02712	MSH6	chr2:48026881	G/A	SNV	1			COSM6475150	11,1	43,0	p.Ala587Thr	386	4	NM_000179,2	c.1759G>A	missense	0,972	0,99(COSM6475150)	Uncertain significance	0,00001
S18-02712	MYC	chr8:128753188	G/A	SNV	1			COSM6915925	7,8	80,0	p.Arg450Gln	1022	3	NM_002467,5	c.1349G>A	missense	0,362	0,87(COSM6915925)		0,00001
S18-02712	NF1	chr17:29684077	C/T	SNV	1			COSM5484087	26,5	36,0	p.Pro2613Leu	136	53	NM_001042492,2	c.7838C>T	missense	0,015	0,98(COSM5484087)	Uncertain significance	0,00001
S18-02712	NF1	chr17:29661899	G/C	SNV	1			COSM6968058	6,6	35,0	p.Trp1952Cys	530	40	NM_001042492,2	c.5856G>C	missense	1	0,99(COSM6968058)		0,00001
S18-02712	NF1	chr17:29533378	C/T	SNV	1	Deleterious	Loss-of-function	COSM24464	14,1	33,0	p.Arg461Ter	234	12	NM_001042492,2	c.1381C>T	nonsense		0,99(COSM24464)	Pathogenic	0,00001
S18-02712	NRAS	chr1:115251226	C/T	SNV	1			COSM6729412	6,4	108,0	p.Arg167Gln	1695	5	NM_002524,4	c.500G>A	missense	0,012	0,91(COSM6729412)		0,00001
S18-02712	PIK3CA	chr3:178938835	C/T	SNV	1			COSM6917753	7,8	38,0	p.Arg693Cys	488	14	NM_006218,3	c.2077C>T	missense	1	0,92(COSM6917753)	Uncertain significance	0,00001
S18-02712	PIK3CA	chr3:178916648	G/T	SNV	1			COSM4998503	21,1	36,0	p.Gly12Val	171	2	NM_006218,3	c.35G>T	missense	1	1,00(COSM4998503)		0,00001
S18-02712	POLD1	chr19:50910258	C/T	SNV	1			COSM1681235	10,9	55,0	p.Arg505Cys	503	13	NM_001256849,1	c.1513C>T	missense	0,999	0,99(COSM1681235)	Uncertain significance	0,00001
S18-02712	POLE	chr12:133254004	C/T	SNV	1			COSM6920439	8,9	72,0	p.Arg249Gln	809	8	NM_006231,3	c.746G>A	missense	0,806	0,99(COSM6920439)	Uncertain significance	0,00001
S18-02712	POLE	chr12:133252337	C/T	SNV	1			COSM6752010	17,7	39,0	p.Gly364Arg	220	11	NM_006231,3	c.1090G>A	missense	1	0,99(COSM6752010)		0,00001
S18-02712	POLE	chr12:133214706	G/A	SNV	1			COSM6934810	11,9	36,0	p.Arg1858Cys	303	41	NM_006231,3	c.5572C>T	missense	1	0,99(COSM6934810)	Uncertain significance	0,00001
S18-02712	POLE	chr12:133237689	G/A	SNV	1			COSM6752020	7,3	13,0	p.Arg976Cys	177	25	NM_006231,3	c.2926C>T	missense	1	0,98(COSM6752020)	Uncertain significance	0,00025
S18-02712	PTEN	chr10:89720772	G/A	SNV	1			COSM1561195	11,8	63,0	p.Arg308His	532	8	NM_000314,6	c.923G>A	missense	0,007	0,98(COSM1561195)	Uncertain significance	0,00001
S18-02712	RB1	chr13:48937001	C/T	SNV	1	Deleterious	Loss-of-function	COSM126899	10,1	57,0	p.Gln257Ter	567	8	NM_000321,2	c.769C>T	nonsense		0,93(COSM126899)		0,00001

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S18-02712	RB1	chr13:48936995	C/T	SNV	1	Deleterious	Loss-of-function	COSM943	10,1	57,0	p.Arg255Ter	567	8	NM_000321,2	c.763C>T	nonsense		0,76(COSM943)	Pathogenic	0,00001
S18-02712	SMAD4	chr18:48604664	C/T	SNV	1	Hotspot	Loss-of-function	COSM6476007	12,5	33,0	p.Arg496Cys	265	12	NM_005359,5	c.1486C>T	missense	1	0,98(COSM6476007)	Pathogenic/Likely pathogenic	0,00001
S18-02712	TP53	chr17:7577139	G/A	SNV	1			COSM11183	7,6	37,0	p.Arg267Trp	490	8	NM_000546,5	c.799C>T	missense	0,979	0,98(COSM11183)	Conflicting interpretations of pat	0,00001
S18-03289	SMAD4	chr18:48603032	C/T	SNV	1	Deleterious	Loss-of-function	COSM14096	6,2	59,0	p.Arg445Ter	960	11	NM_005359,5	c.1333C>T	nonsense		0,94(COSM14096)	Pathogenic	0,00001
S18-04801	ALK	chr2:29419650	C/T	SNV	1			COSM4820914	8,3	16,0	p.Glu1384Lys	193	28	NM_004304,4	c.4150G>A	missense	0,001	0,83(COSM4820914)		0,00002
S18-04801	APC	chr5:112173824	C/T	SNV	1			COSM9801623	11,7	59,0	p.Arg845Cys	504	16	NM_000038,5	c.2533C>T	missense	0,998	0,96(COSM9801623)	Uncertain significance	0,00001
S18-04801	APC	chr5:112177653	C/T	SNV	1			COSM6940328	14,3	50,0	p.Ala2121Val	351	16	NM_000038,5	c.6362C>T	missense	0,997	0,97(COSM6940328)		0,00001
S18-04801	APC	chr5:112174466	G/A	SNV	1			COSM9311935	5,2	30,0	p.Glu1059Lys	581	16	NM_000038,5	c.3175G>A	missense	0,996	1(COSM9311935)		0,00012
S18-04801	APC	chr5:112174664	G/A	SNV	1			COSM6019181	6,6	17,0	p.Val1125Ile	258	16	NM_000038,5	c.3373G>A	missense	0,004	0,89(COSM6019181)		0,00014
S18-04801	APC	chr5:112174713	C/T	SNV	1			COSM8306905	6,6	17,0	p.Thr1141Ile	256	16	NM_000038,5	c.3422C>T	missense	0,999	0,94(COSM8306905)		0,00013
S18-04801	ARID2	chr12:46230679	C/T	SNV	1			COSM4041985	5,5	28,0	p.Arg310Cys	514	8	NM_152641,3	c.928C>T	missense	1	0,98(COSM4041985)		0,00007
S18-04801	ARID2	chr12:46246270	G/A	SNV	1			COSM7697639	10,4	26,0	p.Ser1455Asn	251	15	NM_152641,3	c.4364G>A	missense	0	0,97(COSM7697639)		0,00001
S18-04801	ARID2	chr12:46298829	G/A	SNV	1			COSM4990228	6,0	18,0	p.Glu1826Lys	298	21	NM_152641,3	c.5476G>A	missense	0,039	0,90(COSM4990228)		0,00028
S18-04801	ARID2	chr12:46243442	G/A	SNV	1			COSM4663268	10,7	16,0	p.Val599Ile	149	14	NM_152641,3	c.1795G>A	missense	0,894	0,95(COSM4663268)		0,00001
S18-04801	ATM	chr11:108115744	C/T	SNV	1	Deleterious	Loss-of-Function	COSM140670	6,0	52,0	p.Gln298Ter	870	7	NM_000051,3	c.892C>T	nonsense		0,92(COSM140670)		0,00001
S18-04801	ATM	chr11:108218052	G/T	SNV	1			COSM6925192	7,2	41,0	p.Leu2877Phe	572	59	NM_000051,3	c.8631G>T	missense	1	0,89(COSM6925192)		0,00001
S18-04801	ATM	chr11:108224510	G/A	SNV	1			COSM686476	9,6	40,0	p.Gly2897Ser	415	60	NM_000051,3	c.8689G>A	missense	1	0,99(COSM686476)		0,00001
S18-04801	ATM	chr11:108199889	G/A	SNV	1			COSM6928530	15,7	39,0	p.Glu2411Lys	248	49	NM_000051,3	c.7231G>A	missense	1	0,99(COSM6928530)		0,00001
S18-04801	ATM	chr11:108218092	G/A	SNV	1			COSM6921577	6,8	39,0	p.Gly2891Ser	572	59	NM_000051,3	c.8671G>A	missense	1	0,99(COSM6921577)		0,00001
S18-04801	ATM	chr11:108099912	C/T	SNV	1	Deleterious	Loss-of-Function	COSM8747548	8,0	29,0	p.Gln65Ter	361	4	NM_000051,3	c.193C>T	nonsense		0,97(COSM8747548)	Likely pathogenic	0,00001
S18-04801	BAP1	chr3:52440379	C/T	SNV	1			COSM159326	8,3	31,0	p.Asp225Asn	372	9	NM_004656,3	c.673G>A	missense	0,995	0,99(COSM159326)		0,00001
S18-04801	BAP1	chr3:52441217	C/T	SNV	1			COSM4410937	6,0	21,0	p.Gly185Arg	352	7	NM_004656,3	c.553G>A	missense	1	0,99(COSM4410937)		0,00013
S18-04801	BAP1	chr3:52439179	G/A	SNV	1	Deleterious	Loss-of-Function	COSM5399743	6,1	18,0	p.Gln355Ter	296	11	NM_004656,3	c.1063C>T	nonsense		1,00(COSM5399743)	Pathogenic	0,00026
S18-04801	BRAF	chr7:140453128	G/A	SNV	1			COSM33729	10,1	32,0	p.Arg603Ter	316	15	NM_004333,5	c.1807C>T	nonsense		0,98(COSM33729)	not provided	0,00001
S18-04801	BRIP1	chr17:59926534	G/A	SNV	1	Deleterious	Loss-of-Function	COSM6465050	7,3	24,0	p.Gln155Ter	327	5	NM_032043,2	c.463C>T	nonsense		0,86(COSM6465050)	Pathogenic	0,00001
S18-04801	CDH1	chr16:68847304	G/A	SNV	1	Deleterious	Loss-of-Function	COSM3818351	8,2	28,0	p.Trp409Ter	342	9	NM_004360,4	c.1226G>A	nonsense		0,99(COSM3818351)		0,00001
S18-04801	CDKN2A	chr9:21974760	C/T	SNV	1			COSM5628983	6,2	11,0	p.Gly23Ser	179	1	NM_001195132,1	c.67G>A	missense	0,998	0,93(COSM5628983)	Likely pathogenic	0,00256
S18-04801	CHEK2	chr22:29130561	C/T	SNV	1			COSM6938075	7,2	33,0	p.Ser50Asn	458	2	NM_007194,4	c.149G>A	missense	0,993	0,92(COSM6938075)		0,00001
S18-04801	CHEK2	chr22:29130564	G/A	SNV	1			COSM1616324	5,2	24,0	p.Ser49Phe	458	2	NM_007194,4	c.146C>T	missense	0,362	0,78(COSM1616324)	Uncertain significance	0,00034
S18-04801	FANCD2	chr3:10116274	C/T	SNV	1	Deleterious	Loss-of-Function	COSM4484163	5,2	27,0	p.Arg926Ter	517	29	NM_033084,4	c.2776C>T	nonsense		0,98(COSM4484163)		0,00017
S18-04801	KIT	chr4:55603353	G/A	SNV	1			COSM4844805	10,4	24,0	p.Met903Ile	231	20	NM_000222,2	c.2709G>A	missense	0,715	0,99(COSM4844805)		0,00001
S18-04801	KRAS	chr12:25398290	C/T	SNV	1			COSM110699	6,2	15,0	p.Gly10Glu	241	2	NM_033360,3	c.29G>A	missense	1	0,98(COSM110699)		0,00055
S18-04801	MLH1	chr3:37067477	G/A	SNV	1			COSM6964602	27,5	30,0	p.Gly463Glu	109	12	NM_000249,3	c.1388G>A	missense	0,032	0,74(COSM6964602)		0,00001
S18-04801	MSH2	chr2:47705646	C/T	SNV	1	Deleterious	Loss-of-Function	COSM461018	6,1	23,0	p.Gln816Ter	376	14	NM_000251,2	c.2446C>T	nonsense		0,98(COSM461018)	Pathogenic	0,00005
S18-04801	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	7,7	31,0	p.Leu114Val	405	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S18-04801	NF1	chr17:29662039	G/A	SNV	1			COSM9798119	5,3	28,0	p.Ser1999Asn	526	40	NM_001042492,2	c.5996G>A	missense	0,025	0,99(COSM9798119)		0,0001
S18-04801	POLD1	chr19:50912089	C/T	SNV	1			COSM6751889	9,6	29,0	p.Pro608Leu	301	15	NM_001256849,1	c.1823C>T	missense	1	0,95(COSM6751889)		0,00001
S18-04801	POLE	chr12:133218828	C/T	SNV	1			COSM6985195	8,6	24,0	p.Cys1703Tyr	280	38	NM_006231,3	c.5108G>A	missense	0,037	0,99(COSM6985195)		0,00001
S18-04801	PTEN	chr10:89720711	G/A	SNV	1			COSM5055	12,9	59,0	p.Glu288Lys	457	8	NM_000314,6	c.862G>A	missense	0,081	1,00(COSM5055)	Uncertain significance	0,00001
S18-04801	PTEN	chr10:89692841	G/A	SNV	1			COSM2155196	9,2	33,0	p.Asp109Asn	360	5	NM_000314,6	c.325G>A	missense	1	0,99(COSM2155196)		0,00001
S18-04801	RAD51C	chr17:56811555	G/A	SNV	1			COSM981989	6,0	24,0	p.Arg368Gln	401	9	NM_058216,2	c.1103G>A	missense	0,983	0,90(COSM981989)	Uncertain significance	0,00005
S18-04801	RB1	chr13:49039146	G/A	SNV	1			COSM6503563	17,2	62,0	p.Val742Ile	360	22	NM_000321,2	c.2224G>A	missense	0,998	0,99(COSM6503563)		0,00001
S18-04801	RB1	chr13:49033880	C/T	SNV	1			COSM6191574	5,1	39,0	p.His673Tyr	760	20	NM_000321,2	c.2017C>T	missense	1	0,98(COSM6191574)		0,00002
S18-04801	SMAD4	chr18:48591900	G/A	SNV	1			COSM24274	7,3	38,0	p.Asp355Asn	521	9	NM_005359,5	c.1063G>A	missense	1	0,99(COSM24274)		0,00001
S18-04801	SMAD4	chr18:48591817	C/T	SNV	1			COSM7591050	6,5	30,0	p.Ala327Val	461	9	NM_005359,5	c.980C>T	missense	0,994	0,99(COSM7591050)		0,00001
S18-04801	SMAD4	chr18:48581225	C/T	SNV	1			COSM9233304	8,4	10,0	p.His177Tyr	119	5	NM_005359,5	c.529C>T	missense	0,167	0,99(COSM9233304)		0,00036
S18-05065	APC	chr5:112178932	G/A	SNV	1	Deleterious	Loss-of-function	COSM7648785	5,2	32,0	p.Trp2547Ter	612	16	NM_000038,5	c.7641G>A	nonsense		0,95(COSM7648785)		0,00005
S18-05065	APC	chr5:112176278	G/T	SNV	1	Deleterious	Loss-of-function	COSM6475415	5,4	29,0	p.Glu1663Ter	539	16	NM_000038,5	c.4987G>T	nonsense		0,95(COSM6475415)	Pathogenic	0,00006
S18-05065	ARID2	chr12:46230691	C/T	SNV	1	Hotspot	Loss-of-function	COSM278971	8,3	35,0	p.Arg314Cys	420	8	NM_152641,3	c.940C>T	missense	1	0,98(COSM278971)		0,00001
S18-05065	ARID2	chr12:46287446	C/T	SNV	1	Deleterious	Loss-of-function	COSM1628616	6,4	32,0	p.Arg1769Ter	498	20	NM_152641,3	c.5305C>T	nonsense		0,87(COSM1628616)	Pathogenic	0,00001
S18-05065	ATM	chr11:108155043	G/A	SNV	1	Deleterious	Loss-of-function	COSM7409390	5,1	66,0	p.Trp1279Ter	1307	26	NM_000051,3	c.3836G>A	nonsense		0,99(COSM7409390)	Pathogenic	0,00001
S18-05065	ATM	chr11:108172385	C/T	SNV	1	Deleterious	Loss-of-function	COSM172204	8,0	59,0	p.Arg1730Ter	740	35	NM_000051,3	c.5188C>T	nonsense		0,85(COSM172204)	Pathogenic/Likely pathogenic	0,00001
S18-05065	CHEK2	chr22:29130427	G/A	SNV	1	Deleterious	Loss-of-function	COSM6962113	8,1	33,0	p.Arg95Ter	408	2	NM_007194,4	c.283C>T	nonsense		0,95(COSM6962113)	Pathogenic	0,00001
S18-05065	EGFR	chr7:55249166	G/A	SNV	1			COSM8511928	9,6	27,0	p.Ala822Thr	282	20	NM_005228,4	c.2464G>A	missense	1	0,97(COSM8511928)	Uncertain significance	0,00001
S18-05065	FGFR2	chr10:123298200	C/T	SNV	1			COSM6956507	7,4	47,0	p.Met218Ile	638	6	NM_000141,4	c.654G>A	missense	0,99	0,99(COSM6956507)		0,00001
S18-05065	KIT	chr4:55594093	C/T	SNV	1			COSM8503369	10,7	79,0	p.Pro627Ser	742	12	NM_000222,2	c.1879C>T	missense	0,995	0,79(COSM8503369)	Uncertain significance	0,00001
S18-05065	NF1	chr17:29654554	G/A	SNV	1			COSM3742170	5,1	97,0	p.Arg1769Gln	1895	38	NM_001042492,2	c.5306G>A	missense	0,977	0,99(COSM3742170)	Uncertain significance	0,00001
S18-05065	NF1	chr17:29562981	C/T	SNV	1	Deleterious	Loss-of-function	COSM1382104	8,7	27,0	p.Arg1306Ter	311	29	NM_001042492,2	c.3916C>T	nonsense		0,91(COSM1382104)	Pathogenic	0,00001
S18-05065	POLD1	chr19:50918759	G/A	SNV	1			COSM5741692	27,5	33,0	p.Asp877Asn	120	21	NM_001256849,1	c.2629G>A	missense	1	0,93(COSM5741692)	Uncertain significance	0,00001
S18-05065	RAD51C	chr17:56811555	G/A	SNV	1			COSM981989	5,5	36,0	p.Arg368Gln	654	9	NM_058216,2	c.1103G>A	missense	0,983	0,90(COSM981989)	Uncertain significance	0,00001
S18-05065	RB1	chr13:49039374	C/T	SNV	1	Deleterious	Loss-of-function	COSM23824	15,6	57,0	p.Arg787Ter	365	23	NM_000321,2	c.2359C>T	nonsense		0,88(COSM23824)	Pathogenic	0,00001
S18-05065	RB1	chr13:48936983	C/T	SNV	1	Deleterious	Loss-of-function	COSM878	7,6	47,0	p.Arg251Ter	621	8	NM_000321,2	c.751C>T	nonsense		0,82(COSM878)	Pathogenic	0,00001
S18-05065	RB1	chr13:49054143	G/A	SNV	1			COSM5610464	6,1	34,0	p.Arg908Gln	562	27	NM_000321,2	c.2723G>A	missense	1	0,99(COSM5610464)		0,00001
S18-05065	SMAD4	chr18:48603033	G/A	SNV	1			COSM3422225	5,7	34,0	p.Arg445Gln	596	11	NM_005359,5	c.1334G>A	missense	0,827	0,99(COSM3422225)		0,00001
S18-05065	TP53	chr17:7577552	C/T	SNV	1			COSM44129	7,2	39,0	p.Met243Ile	544	7	NM_000546,5	c.729G>A	missense	0,999	0,97(COSM44129)		0,00001
S18-06595	CDKN2A	chr9:21971120	G/A	SNV	1	Deleterious	Loss-of-function	COSM12475	29,7	593,0	p.Arg80Ter	1998	2	NM_001195132,1	c.238C>T	nonsense		0,88(COSM12475)	Likely pathogenic, risk factor	0,00001
S18-06595	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	14,4	63,0	p.Gly12Asp	437	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S18-06595	TP53	chr17:7577120	C/T	SNV	1	Hotspot	Loss-of-function	COSM10660	26,2	523,0	p.Arg273His	2000	8	NM_000546,5	c.818G>A	missense	0,901	1,00(COSM1,000660)	Pathogenic/Likely pathogenic	0,00001
S18-06950	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	32,6	215,0	p.Gly12Asp	659	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S18-06950	TP53	chr17:7578443	A/C	SNV	1	Hotspot	Loss-of-function	COSM44216	28,1	100,0	p.Tyr163Asp	356	5	NM_000546,5	c.487T>G	missense	1	0,99(COSM44216)	Likely pathogenic	0,00001
S18-08122	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	8,3	39,0	p.Leu114Val	472	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S18-08122	NF1	chr17:29548932	C/T	SNV	1			COSM6948528	5,2	20,0	p.Thr569Ile	388	15	NM_001042492,2	c.1706C>T	missense	0,999	0,97(COSM6948528)		0,00109
S18-08122	POLE	chr12:133220098	CCA/C	INDEL	2	Deleterious	Loss-of-function	COSM1745059	5,8	47,0	p.Val1446GlyfsTer3	813	34	NM_006231,3	c.4337_4338delTG	frameshiftDeletion		1,00(COSM1745059)	Uncertain significance	0,00001
S19-00024	ATM	chr11:108236087	G/A	SNV	1	Hotspot	Loss-of-function	COSM21626	6,4	29,0	p.Arg3008His	451	63	NM_000051,3	c.9023G>A	missense	1	0,99(COSM21626)	Likely pathogenic	0,00007
S19-00024	CTNNB1	chr3:41266152	G/A	SNV	1			COSM5718	5,6	27,0	p.Gly50Asp	481	3	NM_001904,3	c.149G>A	missense	0,002	0,98(COSM5718)		0,00005
S19-00024	EGFR	chr7:55221822	C/A	SNV	1	Hotspot	Gain-of-function	COSM21685	7,3	14,0	p.Ala289Asp	193	7	NM_005228,4	c.866C>A	missense	0,997	0,99(COSM21685)	Likely pathogenic	0,00104
S19-00024	FGFR2	chr10:123298225	C/T	SNV	1			COSM174986	6,5	27,0	p.Arg210Gln	418	6	NM_000141,4	c.629G>A	missense	1	1,00(COSM1,0074986)		0,00001
S19-00024	KRAS	chr12:25398284	CC/AC	SNV	1	Hotspot	Gain-of-function	COSM520	11,7	36,0	p.Gly12Val	307	2	NM_033360,3	c.35G>T	missense	0,999	0,98(COSM520)	Pathogenic	0,00001

ID	Genes	Locus	Genotype	Type	Length	Oncomine Variant Class	Oncomine Gene Class	Variant ID	% Frequency	Mutated Alleles	Amino Acid Change	Coverage	Exon	Transcript	Coding	Variant Effect	PolyPhen	FATHMM	ClinVar	p-value
S19-00024	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	8,9	20,0	p.Leu114Val	226	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S19-00024	NF1	chr17:29553610	G/A	SNV	1			COSM6724959	5,3	64,0	p.Arg720Gln	1205	18	NM_001042492,2	c.2159G>A	missense	0,938	0,96(COSM6724959)	Uncertain significance	0,00001
S19-00024	NF1	chr17:29560175	C/T	SNV	1	Deleterious	Loss-of-function	COSM5049808	5,9	18,0	p.Gln1218Ter	307	27	NM_001042492,2	c.3652C>T	nonsense		0,98(COSM5049808)		0,00041
S19-00024	NF1	chr17:29684085	C/T	SNV	1	Deleterious	Loss-of-function	COSM5535345	5,4	10,0	p.Gln2616Ter	184	53	NM_001042492,2	c.7846C>T	nonsense		0,98(COSM5535345)		0,00846
S19-00024	PIK3CA	chr3:178937060	G/T	SNV	1			COSM8034249	7,7	13,0	p.Ala581Ser	169	11	NM_006218,3	c.1741G>T	missense	0,002	0,98(COSM8034249)		0,00015
S19-00024	POLE	chr12:133218912	C/T	SNV	1			COSM6071973	8,9	34,0	p.Arg1675His	384	38	NM_006231,3	c.5024G>A	missense	1	0,99(COSM6071973)		0,00001
S19-00024	POLE	chr12:133253140	C/T	SNV	1			COSM5031038	10,9	27,0	p.Asp301Asn	248	9	NM_006231,3	c.901G>A	missense	0,997	0,99(COSM5031038)	Uncertain significance	0,00001
S19-00024	POLE	chr12:133202801	G/A	SNV	1	Deleterious	Loss-of-function	COSM4503587	6,8	24,0	p.Arg2145Ter	355	46	NM_006231,3	c.6433C>T	nonsense		0,92(COSM4503587)	Uncertain significance	0,00001
S19-00024	RAD51C	chr17:56787223	C/T	SNV	1	Deleterious	Loss-of-function	COSM212455	7,1	32,0	p.Arg237Ter	454	5	NM_058216,2	c.709C>T	nonsense		0,78(COSM212455)	Pathogenic	0,00001
S19-00024	RB1	chr13:49050869	G/A	SNV	1			COSM5945309	5,1	41,0	p.Met851Ile	811	25	NM_000321,2	c.2553G>A	missense	0,711	0,95(COSM5945309)		0,00001
S19-00024	SMAD4	chr18:48604809	C/T	SNV	1			COSM6985223	5,3	17,0	p.Pro544Leu	320	12	NM_005359,5	c.1631C>T	missense	0,154	0,99(COSM6985223)		0,0016
S19-00024	TP53	chr17:7577085	C/T	SNV	1	Hotspot	Loss-of-function	COSM10722	20,1	195,0	p.Glu285Lys	970	8	NM_000546,5	c.853G>A	missense	1	0,99(COSM10722)	Pathogenic/Likely pathogenic, dr	0,00001
S19-00024	TP53	chr17:7577552	C/T	SNV	1			COSM44129	6,0	20,0	p.Met243Ile	335	7	NM_000546,5	c.729G>A	missense	0,999	0,97(COSM44129)		0,00017
S19-00643	KIT	chr4:55593599	TGG/TGA	SNV	1			COSM1231	5,2	14,0	p.Trp557Ter	267	11	NM_000222,2	c.1671G>A	nonsense		0,98(COSM1231)		0,01755
S19-00856	KRAS	chr12:25380275	TT/TC	SNV	1	Hotspot	Gain-of-function	COSM552	21,2	342,0	p.Gln61Arg	1614	3	NM_033360,3	c.182A>G	missense	0,026	0,98(COSM552)	Pathogenic	0,00001
S19-00856	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	7,3	41,0	p.Leu114Val	562	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S19-00856	SMAD4	chr18:48591901	A/T	SNV	1			COSM3388466	15,0	129,0	p.Asp355Val	860	9	NM_005359,5	c.1064A>T	missense	1	0,99(COSM3388466)		0,00001
S19-00856	TP53	chr17:7577559	G/A	SNV	1	Hotspot	Loss-of-function	COSM10812	19,9	227,0	p.Ser241Phe	1143	7	NM_000546,5	c.722C>T	missense	1	0,94(COSM10812)	Likely pathogenic	0,00001
S19-01257	CDKN2A	chr9:21971120	G/A	SNV	1	Deleterious	Loss-of-function	COSM12475	13,5	233,9	p.Arg80Ter	1729	2	NM_001195132,1	c.238C>T	nonsense		0,88(COSM12475)	Likely pathogenic, risk factor	0,00001
S19-01257	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	7,5	37,0	p.Gly12Asp	496	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S19-01257	POLE	chr12:133220098	CCA/C	INDEL	2	Deleterious	Loss-of-function	COSM1745059	5,1	50,0	p.Val1446GlyfsTer3	976	34	NM_006231,3	c.4337_4338delTG	frameshiftDeletion		COSM1745059	Uncertain significance	0,00014
S19-01257	TP53	chr17:7578268	A/C	SNV	1	Hotspot	Loss-of-function	COSM44571	13,3	64,0	p.Leu194Arg	480	6	NM_000546,5	c.581T>G	missense	1	1,00(COSM44571,00)	Uncertain significance	0,00001
S19-02445	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	8,2	45,0	p.Leu114Val	549	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S19-03810	CDKN2A	chr9:21971120	G/A	SNV	1	Deleterious	Loss-of-function	COSM12475	18,6	372,0	p.Arg80Ter	1998	2	NM_001195132,1	c.238C>T	nonsense		0,88(COSM12475)	Likely pathogenic, risk factor	0,00001
S19-03810	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	5,6	53,0	p.Leu114Val	954	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S19-03810	NRAS	chr1:115256529	TG/CG	SNV	1	Hotspot	Gain-of-function	COSM584	25,8	348,1	p.Gln61Arg	1348	3	NM_002524,4	c.182A>G	missense	0,214	0,99(COSM584)	Pathogenic	0,00001
S19-03810	TP53	chr17:7578448	G/C	SNV	1			COSM46279	13,5	269,1	p.Ala161Gly	1999	5	NM_000546,5	c.482C>G	missense	0,999	1,00(COSM46279)		0,00001
S19-04576	CDKN2A	chr9:21971156	C/T	SNV	1			COSM13604	6,5	26,0	p.Ala68Thr	402	2	NM_001195132,1	c.202G>A	missense	1	0,97(COSM13604)		0,00001
S19-04576	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,7	84,0	p.Leu114Val	1256	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S19-04576	POLE	chr12:133209315	G/A	SNV	1			COSM6943211	5,3	40,0	p.Pro2024Leu	753	44	NM_006231,3	c.6071C>T	missense	0,942	0,99(COSM6943211)		0,00001
S19-05740	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	6,0	28,0	p.Gly12Asp	469	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00029
S19-05740	SMAD4	chr18:48591888	G/C	SNV	1	Hotspot	Loss-of-function	COSM14135	12,3	120,0	p.Asp351His	973	9	NM_005359,5	c.1051G>C	missense	1	0,99(COSM14135)	Pathogenic	0,00001
S19-05740	TP53	chr17:7578503	C/T	SNV	1			COSM43878	12,4	130,0	p.Val143Met	1050	5	NM_000546,5	c.427G>A	missense	1	0,83(COSM43878)	Uncertain significance	0,00001
S19-08372	KRAS	chr12:25398261	T/C	SNV	1			COSM87289	16,4	57,0	p.Thr20Ala	347	2	NM_033360,3	c.58A>G	missense	1	0,98(COSM87289)		0,00001
S19-08372	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	15,7	54,0	p.Gly12Asp	344	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S19-08372	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,2	31,0	p.Leu114Val	502	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S19-08372	TP53	chr17:7577511	A/G	SNV	1			COSM43842	13,3	87,0	p.Leu257Pro	652	7	NM_000546,5	c.770T>C	missense	1	0,99(COSM43842)	Uncertain significance	0,00001
S20-00190	KRAS	chr12:25398284	CC/TC	SNV	1	Hotspot	Gain-of-function	COSM521	18,6	186,0	p.Gly12Asp	1002	2	NM_033360,3	c.35G>A	missense	0,517	0,98(COSM521)	Pathogenic	0,00001
S20-00190	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,1	111,0	p.Leu114Val	1825	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001
S20-00190	TP53	chr17:7577548	C/T	SNV	1	Hotspot	Loss-of-function	COSM6932	25,1	502,0	p.Gly245Ser	2000	7	NM_000546,5	c.733G>A	missense	1	0,99(COSM6932)	Pathogenic	0,00001
S20-00355	MYC	chr8:128750803	C/G	SNV	1			COSM6209969	6,2	51,0	p.Leu114Val	821	2	NM_002467,5	c.340C>G	missense	0,855	0,96(COSM6209969)		0,00001