

Table S8. A complete list of somatic point mutations identified in 160 colorectal cancer patients by targeted capture sequencing.

Chrom	Start	End	Ref	Obs	Func	ExonicFunc	Gene	Amino acid change	dbSNP_id	SIFT	mutated	sample
chr1	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FLG	NM_002016:c.C4278T;p.S1426S				P47
chr1	1.57E+08	1.57E+08	C	T	exonic	synonymous SNV	SPTA1	NM_003126:c.G2943A;p.R981R				P47
chr2	1.16E+08	1.16E+08	G	T	exonic	synonymous SNV	DPP10	NM_001004360:c.G1998T;p.V666V				P47
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3958T;p.Q1320X			0.07	P47
chr6	1.66E+08	1.66E+08	G	A	exonic	nonsynonymous SNV	PDE10A	NM_001130690:c.C1399T;p.R467C			0.06	P47
chr7	93877014	93877014	G	A	exonic	nonsynonymous SNV	COL1A2	NM_000089:c.G980A;p.R327H			0.01	P47
chr10	28273768	28273768	C	T	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.G1516A;p.D506N			0.37	P47
chr17	7517831	7517831	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C436T;p.P146S			0	P47
chr21	45754591	45754591	C	A	exonic	synonymous SNV	COL18A1	NM_030582:c.C4212A;p.I1404I				P47
chr2	1.9E+08	1.9E+08	C	T	exonic	stopgain SNV	COL3A1	NM_000090:c.C922T;p.R308X			0	P48
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057164:c.G546A;p.Q182Q				P48
chr3	10392307	10392307	G	A	exonic	nonsynonymous SNV	ATP2B2	NM_001683:c.C1088T;p.T363M			0	P48
chr3	1.25E+08	1.25E+08	C	T	exonic	nonsynonymous SNV	MYLK	NM_053031:c.G403A;p.E135K			0.83	P48
chr4	1.57E+08	1.57E+08	G	T	exonic	nonsynonymous SNV	GUCY1A3	NM_001130684:c.G1166T;p.R389I			0.05	P48
chr5	1.12E+08	1.12E+08	G	T	exonic;splicing	nonsynonymous SNV	APC	NM_001127511:c.G1904T;p.R635M			0.01	P48
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV	PCDHB11	NM_018931:c.C1383T;p.R461R				P48
chr9	1.37E+08	1.37E+08	C	T	exonic	nonsynonymous SNV	COL5A1	NM_000093:c.C3086T;p.P1029L			0	P48
chr12	25289552	25289552	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G34A;p.G12S			0	P48
chr19	47925229	47925229	G	T	exonic	nonsynonymous SNV	PSG3	NM_021016:c.C1129A;p.Q377K			0.05	P48
chr10	28268831	28268831	C	A	splicing		ARMC4					P49
chr1	69998527	69998527	C	T	exonic	stopgain SNV	LRRC7	NM_020794:c.C52T;p.R18X			0	P50
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G5164A;p.G1722R				P50
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G11515A;p.A3839T			0.12	P50
chr5	26917291	26917291	G	A	exonic	nonsynonymous SNV	CDH9	NM_016279:c.C2081T;p.P694L			0	P50
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3451T;p.E1151X			0.17	P50
chr5	1.4E+08	1.4E+08	G	C	exonic	nonsynonymous SNV	PCDHA11	NM_018902:c.G1552C;p.A518P				P50
chr12	22246054	22246054	C	T	exonic	nonsynonymous SNV	ST8SIA1	NM_003034:c.G770A;p.R257H			0.16	P50
chr12	25289548	25289548	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G38A;p.G13D	rs112445441		0	P50
chr5	1.12E+08	1.12E+08	C	A	exonic	stopgain SNV	APC	NM_001127511:c.C4013A;p.S1338X			0.72	P138
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	FAT2	NM_001447:c.C12446T;p.P4149L			0	P138
chr6	1.3E+08	1.3E+08	G	A	exonic	nonsynonymous SNV	LAMA2	NM_000426:c.G5433A;p.M1811I			0.61	P138
chr17	38498137	38498137	A	G	exonic	synonymous SNV	BRCA1	NM_007297:c.T2796C;p.R932R				P138
chr5	7573913	7573913	C	T	exonic	synonymous SNV	ADCY2	NM_020546:c.C471T;p.D157D				P137
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV	PCDHB7	NM_018940:c.C651T;p.G217G	rs77257610			P137
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A;p.G12D			0	P137
chr19	60033245	60033245	G	A	exonic	nonsynonymous SNV	KIR3DL1	NM_013289:c.G1156A;p.E386K			0	P137
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G2073A;p.A691A				P122
chr4	1.55E+08	1.55E+08	A	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.T3332G;p.L1111R			0.02	P122
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C2572T;p.R858X			0.03	P122
chr7	93894476	93894476	G	A	exonic	nonsynonymous SNV	COL1A2	NM_000089:c.G3200A;p.R1067H			0.54	P122
chr9	21196913	21196913	G	A	exonic	nonsynonymous SNV	IFNA10	NM_002171:c.C184T;p.P62S			0.01	P122
chr12	25289552	25289552	C	A	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G34T;p.G12C			0.01	P122
chr17	7519204	7519204	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C55T;p.P19S	rs28934874		0.01	P122
chr1	2.47E+08	2.47E+08	G	T	exonic	synonymous SNV	OR2M7	NM_001004691:c.C132A;p.I44I				P114
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3979T;p.E1327X			0.35	P114
chr6	1.66E+08	1.66E+08	G	A	exonic	synonymous SNV	PDE10A	NM_001130690:c.C1395T;p.P465P				P114
chr12	25289551	25289551	C	A	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35T;p.G12V			0	P114
chr12	1.31E+08	1.31E+08	C	T	exonic	nonsynonymous SNV	EP400	NM_015409:c.C3062T;p.A1021V			0.02	P114

chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G128A:p.R43H	rs28934578	0	P114
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C667T:p.R223X		0	P142
chr5	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SN\ FAT2	NM_001447:c.G10375A:p.G3459S		0.22	P142
chrX	32339935	32339935	T	G	exonic	nonsynonymous SN\ DMD	NM_004011:c.A65C:p.K22T		0.51	P142
chr19_rai	255163	255163	C	T	exonic	synonymous SNV KIR2DS3	NM_012313:c.C909T:p.Y303Y			P142
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\ FAT4	NM_024582:c.G7569T:p.M2523I		0.2	P113
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV PCDHA6	NM_018909:c.C1338T:p.A446A			P113
chr5	1.4E+08	1.4E+08	C	G	exonic	nonsynonymous SN\ PCDHA7	NM_018910:c.C1355G:p.A452G		0.01	P113
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\ PCDHB2	NM_018936:c.C1237T:p.R413W		0	P113
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35T:p.G12V		0	P113
chr17	7517652	7517652	C	T	splicing	TP53				P113
chr17	38500079	38500079	C	T	exonic	nonsynonymous SN\ BRCA1	NM_007297:c.G854A:p.R285Q	rs80357464	1	P113
chrX	1.54E+08	1.54E+08	A	T	exonic	nonsynonymous SN\ F8	NM_000132:c.T354A:p.H118Q		0.04	P113
chr12	25289546	25289546	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G40A:p.V14I	rs104894365	0	P124
chr17	7517807	7517807	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G460A:p.E154K		0	P124
chr1	2.47E+08	2.47E+08	G	C	exonic	nonsynonymous SN\ OR2M7	NM_001004691:c.C862G:p.L288V		0.11	P45
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\ PCDHB3	NM_018937:c.C182T:p.A61V		0.07	P45
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SN\ PCDHB12	NM_018932:c.G1015A:p.D339N		0	P45
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\ DOCK2	NM_004946:c.G5063A:p.S1688N		0.62	P45
chr6	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV SYNE1	NM_033071:c.G2347T:p.E783X		0	P45
chr7	1.51E+08	1.51E+08	G	A	exonic	stopgain SNV MLL3	NM_170606:c.C13540T:p.Q4514X		0.07	P45
chr1	2.14E+08	2.14E+08	A	G	splicing	USH2A				P44
chr5	1.12E+08	1.12E+08	T	A	exonic	stopgain SNV APC	NM_001127511:c.T4452A:p.C1484X		0.13	P44
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV PCDHB4	NM_018938:c.C2223T:p.T741T			P44
chr7	98414415	98414415	C	T	exonic	synonymous SNV TRRAP	NM_003496:c.C8511T:p.C2837C			P44
chr17	7518264	7518264	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C346T:p.R116W		0	P44
chr3	1.53E+08	1.53E+08	A	T	exonic	synonymous SNV IGSF10	NM_178822:c.T5145A:p.I1715I			P41
chr5	24523722	24523722	G	C	exonic	nonsynonymous SN\ CDH10	NM_006727:c.C2174G:p.P725R		0.01	P41
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C2572T:p.R858X		0.03	P41
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV PCDHB12	NM_018932:c.C1341T:p.N447N			P41
chr6	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV SYNE1	NM_015293:c.G6675A:p.P2225P			P41
chr8	98047412	98047412	T	C	exonic	nonsynonymous SN\ PGCP	NM_016134:c.T923C:p.F308S		0.02	P41
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35A:p.G12D		0	P41
chr17	7519264	7519264	T	A	exonic	nonsynonymous SN\ TP53	NM_000546:c.A391T:p.N131Y		0	P41
chr22	21768357	21768357	G	A	exonic	nonsynonymous SN\ GNAZ	NM_002073:c.G475A:p.D159N		0.2	P41
chrX	19388087	19388087	A	G	exonic	synonymous SNV MAP3K15	NM_001001671:c.T825C:p.D275D			P41
chr1	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV FLG	NM_002016:c.C11721T:p.R3907R			P40
chr2	1.7E+08	1.7E+08	T	G	exonic	nonsynonymous SN\ LRP2	NM_004525:c.A1400C:p.E467A		0.26	P40
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SN\ FAT4	NM_024582:c.G11711A:p.C3904Y		0	P40
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV APC	NM_001127511:c.G3448T:p.E1150X		0.01	P40
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV PCDHA11	NM_018902:c.G300A:p.A100A			P40
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV PCDHA12	NM_018903:c.G2202A:p.P734P			P40
chr5	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\ DOCK2	NM_004946:c.C4759T:p.H1587Y		0	P40
chr15	32870657	32870657	G	A	exonic	nonsynonymous SN\ ACTC1	NM_005159:c.C940T:p.R314C			P40
chr17	7517830	7517830	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C437T:p.P146L		0	P40
chr1	11096982	11096982	A	C	exonic	nonsynonymous SN\ MTOR	NM_004958:c.T7280G:p.L2427R		0	P43
chr2	1.7E+08	1.7E+08	C	T	exonic	nonsynonymous SN\ LRP2	NM_004525:c.G9592A:p.E3198K		0.51	P43
chr4	1.56E+08	1.56E+08	A	G	splicing	DCHS2				P43
chr5	1.12E+08	1.12E+08	C	G	exonic	stopgain SNV APC	NM_001127511:c.C3584G:p.S1195X		0.49	P43
chr9	1.37E+08	1.37E+08	G	A	exonic	nonsynonymous SN\ COL5A1	NM_000093:c.G2543A:p.R848H		0.03	P43
chr11	1.08E+08	1.08E+08	A	G	exonic	nonsynonymous SN\ ATM	NM_000051:c.A7190G:p.Q2397R		0	P43
chr12	25271516	25271516	T	G	exonic	nonsynonymous SN\ KRAS	NM_004985:c.A209C:p.Q70P		0	P43
chr17	7519275	7519275	G	A	exonic	nonsynonymous SN\ TP53	NM_000546:c.C380T:p.S127F		0	P43

chr1	2.14E+08	2.14E+08	C	T	exonic	nonsynonymous SN\	USH2A	NM_206933:c.G5806A:p.E1936K	0.85	P42	
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.C13373T:p.T4458M	0	P42	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C2572T:p.R858X	0.03	P42	
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA6	NM_018909:c.C1982T:p.A661V	0	P42	
chr10	5237731	5237731	G	A	exonic	synonymous SNV	AKR1C4	NM_001818:c.G381A:p.T127T		P42	
chr12	5971347	5971347	C	T	exonic	nonsynonymous SN\	VWF	NM_000552:c.G6697A:p.E2233K	0.01	P42	
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A:p.G12D	0	P42	
chr18	49102452	49102452	A	C	exonic	synonymous SNV	DCC	NM_005215:c.A2091C:p.S697S		P42	
chr19	43672728	43672728	G	A	exonic	nonsynonymous SN\	RYR1	NM_000540:c.G5987A:p.R1996H	0.01	P42	
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C9312T:p.S3104S		P37	
chr2	1.7E+08	1.7E+08	C	T	exonic	nonsynonymous SN\	LRP2	NM_004525:c.G6742A:p.V2248I	0.46	P37	
chr5	24571608	24571608	G	T	exonic	nonsynonymous SN\	CDH10	NM_006727:c.C607A:p.L203I	0.1	P37	
chr5	26951609	26951609	G	A	exonic	nonsynonymous SN\	CDH9	NM_016279:c.C409T:p.R137W	0.01	P37	
chr5	1.41E+08	1.41E+08	G	T	exonic	nonsynonymous SN\	PCDHB8	NM_019120:c.G853T:p.A285S	0.11	P37	
chr6	1.66E+08	1.66E+08	C	T	exonic	nonsynonymous SN\	PDE10A	NM_001130690:c.G2338A:p.V780M	0.14	P37	
chr10	1.34E+08	1.34E+08	C	T	exonic	nonsynonymous SN\	LRRC27	NM_001143757:c.C505T:p.R169W		P37	
chr11	1.34E+08	1.34E+08	G	A	exonic	nonsynonymous SN\	GLB1L2	NM_138342:c.G1333A:p.G445S		P37	
chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.C421T:p.R141C	0	P37	
chr17	51889247	51889247	C	T	exonic	nonsynonymous SN\	ANKFN1	NM_153228:c.C1243T:p.R415C	0	P37	
chr3	1.42E+08	1.42E+08	T	C	exonic	nonsynonymous SN\	CLSTN2	NM_022131:c.T274C:p.F92L	0	P39	
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV	APC	NM_000038:c.C646T:p.R216X	rs62619935	0.19	P39
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4003T:p.E1335X		0.1	P39
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA13	NM_018904:c.G1407A:p.P469P		P39	
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV	PCDHB11	NM_018931:c.C1089T:p.T363T		P39	
chr17	7519242	7519242	G	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.C17T:p.A6V	0	P39	
chr19	43637749	43637749	G	A	exonic	nonsynonymous SN\	RYR1	NM_000540:c.G1475A:p.R492H	0.12	P39	
chr20	2724430	2724430	C	T	exonic	nonsynonymous SN\	CPXM1	NM_019609:c.G1535A:p.R512H	0.01	P39	
chr2	1.9E+08	1.9E+08	G	A	splicing		COL3A1			P38	
chr5	1.12E+08	1.12E+08	G	A	splicing		APC			P38	
chr5	1.4E+08	1.4E+08	C	G	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.C860G:p.S287C	0.03	P38	
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA9	NM_014005:c.C2024T:p.A675V	0.33	P38	
chr7	91440964	91440964	G	T	exonic	nonsynonymous SN\	AKAP9	NM_005751:c.G52T:p.A18S	0	P38	
chr7	98383794	98383794	C	T	exonic	synonymous SNV	TRRAP	NM_003496:c.C4488T:p.C1496C		P38	
chr15	64516229	64516229	G	A	exonic	nonsynonymous SN\	MAP2K1	NM_002755:c.G383A:p.G128D	0.01	P38	
chr17	7517845	7517845	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G422A:p.R141H	rs28934576	0.01	P38
chrX	47313069	47313069	G	A	exonic	nonsynonymous SN\	ARAF	NM_001654:c.G1085A:p.R362Q	0	P38	
chr4	1.27E+08	1.27E+08	T	A	exonic	nonsynonymous SN\	FAT4	NM_024582:c.T11110A:p.F3704I	0.01	P111	
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4003T:p.E1335X	0.1	P111	
chr7	1E+08	1E+08	A	G	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.A10942G:p.T3648A		P111	
chr7	1.13E+08	1.13E+08	G	A	exonic	nonsynonymous SN\	PPP1R3A	NM_002711:c.C628T:p.R210C	0.12	P111	
chr9	1.17E+08	1.17E+08	T	G	exonic	nonsynonymous SN\	TNC	NM_002160:c.A935C:p.E312A	0.04	P111	
chr10	55252332	55252332	A	T	exonic	stopgain SNV	PCDH15	NM_001142767:c.T5040A:p.C1680X	0	P111	
chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.C421T:p.R141C	0	P111	
chr18	46845900	46845900	C	G	exonic	nonsynonymous SN\	SMAD4	NM_005359:c.C1065G:p.D355E	0	P111	
chr3	1.42E+08	1.42E+08	C	T	exonic	synonymous SNV	CLSTN2	NM_022131:c.C702T:p.T234T		P153	
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\	PCDHB13	NM_018933:c.C803T:p.T268M	0.09	P153	
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A:p.G12D	0	P153	
chr17	7518978	7518978	C	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G200T:p.G67V	0.01	P153	
chr18	6933341	6933341	C	T	exonic	nonsynonymous SN\	LAMA1	NM_005559:c.G8905A:p.A2969T	0.64	P153	
chrX	63405188	63405188	A	G	exonic	nonsynonymous SN\	MTMR8	NM_017677:c.T2069C:p.I690T	0	P153	
chr1	1.84E+08	1.84E+08	T	G	exonic	synonymous SNV	HMCN1	NM_031935:c.T16221G:p.S5407S		P110	
chr1	2.14E+08	2.14E+08	A	G	exonic	nonsynonymous SN\	USH2A	NM_206933:c.T7649C:p.L2550S	0.79	P110	
chr2	15616172	15616172	A	G	exonic	nonsynonymous SN\	NBAS	NM_015909:c.T155C:p.I52T	0.09	P110	

chr2	39137380	39137380	T	C	exonic	synonymous SNV	SOS1	NM_005633:c.A477G:p.K159K	P110
chr2	2.13E+08	2.13E+08	A	G	exonic	synonymous SNV	ERBB4	NM_001042599:c.T415C:p.L139L	P110
chr2	2.38E+08	2.38E+08	A	G	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.T3362C:p.V1121A	P110
chr3	41241141	41241141	C	T	exonic	nonsynonymous SNV	CTNNB1	NM_001098209:c.C134T:p.S45F	0 P110
chr3	1.42E+08	1.42E+08	C	T	exonic	nonsynonymous SNV	CLSTN2	NM_022131:c.C1573T:p.R525C	0 P110
chr3	1.44E+08	1.44E+08	T	C	exonic;splicing	nonsynonymous SNV	ATR	NM_0011184:c.A7760G:p.K2587R	0.28 P110
chr3	1.85E+08	1.85E+08	C	T	exonic	nonsynonymous SNV	DVL3	NM_004423:c.C958T:p.R320W	0 P110
chr5	24571117	24571117	C	A	exonic	nonsynonymous SNV	CDH10	NM_006727:c.G675T:p.M225I	0.01 P110
chr5	26917393	26917393	T	C	exonic	nonsynonymous SNV	CDH9	NM_016279:c.A1979G:p.N660S	0.02 P110
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHA2	NM_018905:c.G1786A:p.A596T	0 P110
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA10	NM_018901:c.G1359A:p.A453A	P110
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV	PCDHB15	NM_018935:c.C2184T:p.P728P	P110
chr6	1.3E+08	1.3E+08	A	G	exonic	nonsynonymous SNV	LAMA2	NM_000426:c.A7132G:p.M2378V	0.25 P110
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C4241T:p.P1414L	0.42 P110
chr7	91441094	91441094	A	G	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.A182G:p.Q61R	0.01 P110
chr7	93897527	93897527	T	C	exonic	synonymous SNV	COL1A2	NM_000089:c.T3987C:p.I1329I	P110
chr7	1.03E+08	1.03E+08	G	A	exonic	stopgain SNV	RELN	NM_173054:c.C10351T:p.R3451X	P110
chr9	32621256	32621256	G	C	exonic	nonsynonymous SNV	TAF1L	NM_153809:c.C4322G:p.T1441S	0.16 P110
chr12	1.31E+08	1.31E+08	C	A	exonic	nonsynonymous SNV	EP400	NM_015409:c.C122A:p.P41H	0 P110
chr12	1.31E+08	1.31E+08	G	A	exonic	nonsynonymous SNV	EP400	NM_015409:c.G4019A:p.R1340Q	0.01 P110
chr15	26184410	26184410	C	T	exonic	nonsynonymous SNV	HERC2	NM_004667:c.G1819A:p.D607N	0.05 P110
chr17	75964245	75964245	A	G	exonic	nonsynonymous SNV	RNF213	NM_020914:c.A13312G:p.S4438G	P110
chr18	49307099	49307099	G	T	exonic	nonsynonymous SNV	DCC	NM_005215:c.G4226T:p.S1409I	0.1 P110
chr19	43717699	43717699	A	G	exonic;splicing	nonsynonymous SNV	RYR1	NM_001042723:c.A11423G:p.Q3808R	P110
chr20	44117005	44117005	T	C	exonic	nonsynonymous SNV	SLC12A5	NM_001134771:c.T2792C:p.V931A	0.02 P110
chrX	70544607	70544607	T	C	exonic	nonsynonymous SNV	TAF1	NM_004606:c.T4325C:p.I1442T	0 P110
chrX	1.52E+08	1.52E+08	C	G	exonic	nonsynonymous SNV	ATP2B3	NM_001001344:c.C1439G:p.T480S	0.03 P110
chrX	1.54E+08	1.54E+08	T	C	exonic	nonsynonymous SNV	F8	NM_000132:c.A4627G:p.S1543G	0.03 P110
chrX	1.54E+08	1.54E+08	T	C	exonic	nonsynonymous SNV	F8	NM_000132:c.A1669G:p.N557D	1 P110
chr1	11113334	11113334	G	A	exonic	nonsynonymous SNV	MTOR	NM_004958:c.C5452T:p.R1818C	0 P151
chr1	1.51E+08	1.51E+08	C	A	exonic	nonsynonymous SNV	FLG	NM_002016:c.G2710T:p.D904Y	0 P151
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SNV	USH2A	NM_206933:c.A11627G:p.K3876R	0.63 P151
chr2	15618761	15618761	A	G	splicing		NBAS		P151
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C3312T:p.H1104H	P151
chr4	1.55E+08	1.55E+08	C	T	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.G2789A:p.G930E	0.96 P151
chr5	24547254	24547254	G	A	exonic	nonsynonymous SNV	CDH10	NM_006727:c.C941T:p.T314I	0.3 P151
chr5	26938385	26938385	G	A	exonic	stopgain SNV	CDH9	NM_016279:c.C1210T:p.Q404X	P151
chr5	1.12E+08	1.12E+08	A	G	exonic	nonsynonymous SNV	APC	NM_001127511:c.A7493G:p.E2498G	0 P151
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA3	NM_018906:c.C1119T:p.S373S	P151
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA7	NM_018910:c.C1758T:p.G586G	P151
chr5	1.69E+08	1.69E+08	A	G	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.A1348G:p.M450V	0 P151
chr6	90717043	90717043	C	T	exonic	synonymous SNV	BACH2	NM_001170794:c.G1503A:p.P501P	P151
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SNV	SYNE1	NM_133650:c.A596G:p.E199G	0 P151
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_133650:c.C368T:p.A123V	0 P151
chr7	37102808	37102808	C	T	exonic	nonsynonymous SNV	ELMO1	NM_014800:c.G1241A:p.G414D	0.01 P151
chr7	91498823	91498823	A	G	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.A4307G:p.Y1436C	0 P151
chr8	98047408	98047408	G	A	exonic	nonsynonymous SNV	PGCP	NM_016134:c.G919A:p.A307T	0.31 P151
chr9	1.17E+08	1.17E+08	G	A	exonic	nonsynonymous SNV	TNC	NM_002160:c.C5254T:p.P1752S	0.18 P151
chr11	66955562	66955562	G	A	exonic;splicing	nonsynonymous SNV	RPS6KB2	NM_003952:c.G457A:p.G153S	0 P151
chr11	1.06E+08	1.06E+08	C	T	exonic	nonsynonymous SNV	GUCY1A2	NM_000855:c.G1864A:p.V622M	0 P151
chr11	1.19E+08	1.19E+08	T	G	exonic	nonsynonymous SNV	CBL	NM_005188:c.T1263G:p.C421W	0 P151
chr12	22331412	22331412	A	G	exonic	nonsynonymous SNV	ST8SIA1	NM_003034:c.T319C:p.Y107H	0 P151
chr12	47457676	47457676	A	G	exonic	synonymous SNV	ADCY6	NM_015270:c.T1125C:p.H375H	P151

chr12	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SN\ SELPLG	NM_003006:c.C440T;p.T147M	rs112473865	0.03	P151
chr12	1.27E+08	1.27E+08	T	C	exonic	nonsynonymous SN\ TMEM132C	NM_001136103:c.T212C;p.L71P			P151
chr12	1.28E+08	1.28E+08	G	A	exonic	nonsynonymous SN\ TMEM132D	NM_133448:c.C1574T;p.P525L		0	P151
chr12	1.31E+08	1.31E+08	G	A	exonic	nonsynonymous SN\ EP400	NM_015409:c.G11A;p.G4D		0	P151
chr13	66699757	66699757	G	T	exonic	nonsynonymous SN\ PCDH9	NM_020403:c.C817A;p.Q273K		0.01	P151
chr16	23134012	23134012	C	A	exonic	nonsynonymous SN\ SCN11G	NM_001039:c.C1671A;p.F557L		1	P151
chr17	7520316	7520316	C	T	splicing	TP53				P151
chr17	10383363	10383363	C	T	exonic	nonsynonymous SN\ MYH2	NM_001100112:c.G1300A;p.V434I		0.85	P151
chr17	26577671	26577671	T	C	exonic	synonymous SNV NF1	NM_000267:c.T2094C;p.P698P			P151
chr17	71234914	71234914	G	A	exonic	nonsynonymous SN\ ITGB4	NM_001005619:c.G124A;p.V42I		1	P151
chr17	75961390	75961390	T	C	exonic	nonsynonymous SN\ RNF213	NM_020914:c.T12919C;p.C4307R			P151
chr17	75977616	75977616	T	C	exonic	nonsynonymous SN\ RNF213	NM_020914:c.T15196C;p.S5066P			P151
chr18	7023095	7023095	C	A	splicing	LAMA1				P151
chr22	21795528	21795528	C	T	exonic	synonymous SNV GNAZ	NM_002073:c.C978T;p.C326C			P151
chrX	70514910	70514910	G	T	exonic	nonsynonymous SN\ TAF1	NM_004606:c.G1094T;p.G365V		0	P151
chr7	93876840	93876840	G	C	exonic	nonsynonymous SN\ COL1A2	NM_000089:c.G920C;p.G307A		0	P149
chr10	55450139	55450139	C	T	exonic	nonsynonymous SN\ PCDH15	NM_001142765:c.G2357A;p.R786K		0.16	P149
chr17	7519278	7519278	T	C	exonic;splicing	nonsynonymous SN\ TP53	NM_000546:c.A377G;p.Y126C		0	P149
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_000038:c.C694T;p.R232X		0.29	P148
chr7	1.03E+08	1.03E+08	G	A	exonic	nonsynonymous SN\ RELN	NM_005045:c.C449T;p.A150V		0.12	P148
chr12	25289551	25289551	C	G	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35C;p.G12A		0.03	P148
chr17	7518264	7518264	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C346T;p.R116W		0	P148
chr5	82871572	82871572	T	C	exonic	synonymous SNV VCAN	NM_001164097:c.T4033C;p.L1345L			P147
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV APC	NM_001127511:c.G2767T;p.E923X		0.01	P147
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\ PCDHA11	NM_018902:c.C2297T;p.T766M			P147
chr5	1.4E+08	1.4E+08	C	A	exonic	synonymous SNV PCDHB4	NM_018938:c.C2319A;p.L773L			P147
chr10	55449976	55449976	A	T	exonic	synonymous SNV PCDH15	NM_001142765:c.T2520A;p.T840T			P147
chr11	1.08E+08	1.08E+08	C	A	exonic	nonsynonymous SN\ ATM	NM_000051:c.C7305A;p.N2435K		0.06	P147
chr12	25271543	25271543	T	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.A182T;p.Q61L		0	P147
chr17	3607146	3607146	G	A	exonic	nonsynonymous SN\ ITGAE	NM_002208:c.C1052T;p.A351V		0.53	P147
chr10	55747042	55747042	T	A	exonic	nonsynonymous SN\ PCDH15	NM_001142767:c.A760T;p.T254S		0.35	P146
chr3	41249903	41249903	G	T	exonic	nonsynonymous SN\ CTNNB1	NM_001098209:c.G1149T;p.W383C		0.09	P141
chr4	1.26E+08	1.26E+08	A	G	exonic	nonsynonymous SN\ FAT4	NM_024582:c.A4714G;p.T1572A			P141
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV PCDHB10	NM_018930:c.G1092A;p.P364P			P141
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35A;p.G12D		0	P141
chr15	65260776	65260776	C	T	exonic	nonsynonymous SN\ SMAD3	NM_001145104:c.C217T;p.R73C		0	P141
chr17	7517845	7517845	C	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G422T;p.R141L		0	P141
chr3	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\ IGSF10	NM_178822:c.C3014T;p.P1005L		0	P35
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\ SYNE1	NM_033071:c.G13075A;p.A4359T		0.46	P35
chr7	91545086	91545086	G	A	exonic	synonymous SNV AKAP9	NM_005751:c.G6906A;p.T2302T			P35
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV ACACB	NM_001093:c.C3906T;p.I1302I			P35
chr17	7517747	7517747	G	A	exonic	stopgain SNV TP53	NM_001126115:c.C520T;p.R174X		0.15	P35
chr5	26926376	26926376	T	C	exonic	synonymous SNV CDH9	NM_016279:c.A1308G;p.E436E			P36
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV PCDHA7	NM_018910:c.G1686A;p.A562A			P36
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV FAT2	NM_001447:c.G4548A;p.S1516S			P36
chr15	32873026	32873026	C	T	exonic	nonsynonymous SN\ ACTC1	NM_005159:c.G166A;p.V56I			P36
chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G128A;p.R43H	rs28934578	0	P36
chr12	5999057	5999057	G	A	exonic	nonsynonymous SN\ VWF	NM_000552:c.C3788T;p.S1263L		0.51	P29
chr17	7517747	7517747	G	A	exonic	stopgain SNV TP53	NM_001126115:c.C520T;p.R174X		0.15	P29
chr1	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SN\ FLG	NM_002016:c.C10144T;p.R3382C		0.01	P30
chr2	39103509	39103509	T	C	exonic	nonsynonymous SN\ SOS1	NM_005633:c.A1564G;p.N522D		0.13	P30
chr2	1.7E+08	1.7E+08	A	T	exonic	nonsynonymous SN\ LRP2	NM_004525:c.T12191A;p.I4064N		0	P30
chr5	1.12E+08	1.12E+08	A	T	exonic	stopgain SNV APC	NM_001127511:c.A3868T;p.K1290X		0.22	P30

chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHB5	NM_015669:c.G1473A:p.P491P		P30
chr7	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	FLNC	NM_001127487:c.C6699T;p.I2233I		P30
chr9	1.17E+08	1.17E+08	C	T	exonic	nonsynonymous SNV	TNC	NM_002160:c.G3047A:p.R1016H	0.04	P30
chr12	5931936	5931936	G	A	exonic	nonsynonymous SNV	VWF	NM_000552:c.C7997T;p.T2666M	rs78353028	0 P30
chr13	66698343	66698343	G	T	exonic	nonsynonymous SNV	PCDH9	NM_020403:c.C2231A:p.T744N		0.08 P30
chr15	26095748	26095748	G	A	exonic	synonymous SNV	HERC2	NM_004667:c.C9375T;p.L3125L		P30
chr17	7518334	7518334	C	G	splicing		TP53			P30
chr2	15344682	15344682	T	C	exonic	nonsynonymous SNV	NBAS	NM_015909:c.A5104G:p.M1702V		0.01 P31
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3046T;p.E1016X		0 P31
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA2	NM_018905:c.C1725T;p.G575G		P31
chr5	1.69E+08	1.69E+08	C	A	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.C2535A:p.S845R		0.01 P31
chr7	1.52E+08	1.52E+08	C	T	exonic	nonsynonymous SNV	MLL3	NM_170606:c.G10A;p.E4K		0 P31
chr12	1.08E+08	1.08E+08	A	C	exonic	nonsynonymous SNV	ACACB	NM_001093:c.A7111C:p.K2371Q		P31
chr15	65260834	65260834	G	C	exonic	nonsynonymous SNV	SMAD3	NM_001145104:c.G275C;p.R92P		0 P31
chr17	7517845	7517845	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G422A;p.R141H	rs28934576	0.01 P31
chr1	46305198	46305198	A	G	exonic	nonsynonymous SNV	PIK3R3	NM_003629:c.T467C:p.L156P		0 P140
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.G15527A;p.R5176H		0.21 P140
chr1	2.14E+08	2.14E+08	G	A	exonic	synonymous SNV	USH2A	NM_206933:c.C9582T;p.N3194N		P140
chr1	2.15E+08	2.15E+08	G	A	exonic	synonymous SNV	USH2A	NM_007123:c.C1560T;p.C520C		P140
chr2	15451820	15451820	G	A	exonic	nonsynonymous SNV	NBAS	NM_015909:c.C3239T;p.T1080M		0.14 P140
chr2	2.02E+08	2.02E+08	C	T	exonic	synonymous SNV	CASP8	NM_001080125:c.C705T;p.N235N		P140
chr2	2.38E+08	2.38E+08	G	A	exonic	synonymous SNV	COL6A3	NM_057166:c.C3891T;p.D1297D		P140
chr2	2.38E+08	2.38E+08	G	A	exonic	nonsynonymous SNV	COL6A3	NM_004369:c.C575T;p.P192L		P140
chr3	58110638	58110638	C	T	exonic	nonsynonymous SNV	FLNB	NM_001164319:c.C6041T;p.A2014V		0 P140
chr5	7855414	7855414	C	T	exonic	synonymous SNV	ADCY2	NM_020546:c.C2712T;p.D904D	rs35218680	P140
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C667T;p.R223X		0 P140
chr5	1.12E+08	1.12E+08	A	G	exonic;splicing	nonsynonymous SNV	APC	NM_001127511:c.A1903G;p.R635G		0.01 P140
chr5	1.31E+08	1.31E+08	G	A	exonic	nonsynonymous SNV	ACSL6	NM_001205251:c.C1526T;p.A509V		0.1 P140
chr5	1.38E+08	1.38E+08	C	T	exonic	synonymous SNV	CTNNA1	NM_001903:c.C1167T;p.H389H	rs61736921	P140
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA5	NM_018908:c.G1626A:p.P542P		P140
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA6	NM_018909:c.C2055T;p.G685G		P140
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHA6	NM_018909:c.G2107A:p.A703T		0 P140
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA8	NM_018911:c.G2265A;p.P755P		P140
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHB2	NM_018936:c.C678T;p.G226G		P140
chr5	1.41E+08	1.41E+08	A	G	exonic	nonsynonymous SNV	PCDHB15	NM_018935:c.A2246G;p.Y749C		0.05 P140
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.G4045A;p.G1349S		0 P140
chr6	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SNV	THBS2	NM_003247:c.C1988T;p.A663V		0.03 P140
chr7	1.13E+08	1.13E+08	C	A	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.G1823T;p.S608I		0 P140
chr7	1.52E+08	1.52E+08	G	T	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C8045A;p.S2682Y		0 P140
chr8	52936129	52936129	A	G	exonic	nonsynonymous SNV	PCMTD1	NM_052937:c.T136C;p.Y46H		0.41 P140
chr9	90842984	90842984	G	T	exonic	nonsynonymous SNV	SHC3	NM_016848:c.C1400A;p.P467H		0 P140
chr9	1.17E+08	1.17E+08	G	A	exonic	nonsynonymous SNV	TNC	NM_002160:c.C4655T;p.S1552L		0.12 P140
chr9	1.37E+08	1.37E+08	G	A	exonic	nonsynonymous SNV	COL5A1	NM_000093:c.G409A;p.V137I		0.19 P140
chr10	51249253	51249253	C	T	exonic	nonsynonymous SNV	NCOA4	NM_001145262:c.C106T;p.R36W		0 P140
chr11	1.34E+08	1.34E+08	C	T	exonic	synonymous SNV	GLB1L2	NM_138342:c.C1095T;p.F365F		P140
chr12	25269914	25269914	T	A	exonic	nonsynonymous SNV	KRAS	NM_004985:c.A351T;p.K117N		0 P140
chr12	1.28E+08	1.28E+08	C	T	exonic;splicing	synonymous SNV	TMEM132D	NM_133448:c.G1650A;p.R550R		P140
chr12	1.31E+08	1.31E+08	G	A	exonic	nonsynonymous SNV	EP400	NM_015409:c.G3617A;p.R1206H		0 P140
chr12	1.31E+08	1.31E+08	C	T	exonic	synonymous SNV	EP400	NM_015409:c.C4980T;p.G1660G		P140
chr12	1.31E+08	1.31E+08	G	A	exonic	nonsynonymous SNV	EP400	NM_015409:c.G5062A;p.G1688R		0.21 P140
chr12	1.31E+08	1.31E+08	C	T	exonic	stopgain SNV	EP400	NM_015409:c.C7126T;p.R2376X		0 P140
chr14	49696451	49696451	C	A	exonic	nonsynonymous SNV	SOS2	NM_006939:c.G1300T;p.D434Y		0 P140
chr15	26198969	26198969	C	T	exonic	nonsynonymous SNV	HERC2	NM_004667:c.G382A;p.V128I		0.3 P140

chr15	67134731	67134731	G	A	exonic	nonsynonymous SN\	NOX5	NM_001184779:c.G1919A:p.R640H	P140
chr15	67134799	67134799	C	T	exonic	stopgain SNV	NOX5	NM_001184779:c.C1987T:p.Q663X	P140
chr16	3997559	3997559	A	C	exonic;splicing	synonymous SNV	ADCY9	NM_0011116:c.T1695G;p.G565G	P140
chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.C421T;p.R141C	0 P140
chr17	10163151	10163151	C	T	exonic	nonsynonymous SN\	MYH13	NM_003802:c.G3419A;p.R1140H	0 P140
chr17	71244317	71244317	G	A	exonic	nonsynonymous SN\	ITGB4	NM_001005619:c.G1937A:p.R646H	0.02 P140
chr17	71245077	71245077	C	T	exonic	synonymous SNV	ITGB4	NM_001005619:c.C2070T;p.G690G	P140
chr17	71264686	71264686	C	T	exonic	synonymous SNV	ITGB4	NM_001005619:c.C5070T;p.S1690S	P140
chr17	75922525	75922525	G	A	exonic	nonsynonymous SN\	RNF213	NM_020914:c.G4316A;p.R1439H	P140
chr17	75934568	75934568	G	A	exonic	nonsynonymous SN\	RNF213	NM_020914:c.G7985A;p.R2662H	0.14 P140
chr17	75956172	75956172	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G12048A;p.T4016T	P140
chr18	46845902	46845902	C	T	exonic	nonsynonymous SN\	SMAD4	NM_005359:c.C1067T;p.P356L	0 P140
chr18	61632729	61632729	G	A	exonic	synonymous SNV	CDH7	NM_004361:c.G534A;p.T178T	P140
chr19	47177958	47177958	G	A	exonic	synonymous SNV	ATP1A3	NM_152296:c.C1134T;p.V378V	P140
chr21	45713046	45713046	G	A	exonic	nonsynonymous SN\	COL18A1	NM_030582:c.G1109A;p.R370Q	0.01 P140
chr21	45741993	45741993	C	T	exonic	synonymous SNV	COL18A1	NM_030582:c.C3213T;p.P1071P	P140
chrX	1.38E+08	1.38E+08	A	C	exonic	synonymous SNV	FGF13	NM_004114:c.T408G;p.L136L	P140
chr3	58130547	58130547	C	T	exonic	synonymous SNV	FLNB	NM_001164319:c.C7536T;p.D2512D	P32
chr6	90699133	90699133	C	T	exonic	synonymous SNV	BACH2	NM_001170794:c.G2241A;p.A747A	P32
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35T;p.G12V	0 P32
chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G128A;p.R43H	rs28934578 0 P32
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A;p.G12D	0 P33
chrX	32744548	32744548	C	T	exonic	stopgain SNV	DMD	NM_004007:c.G119A;p.W40X	0 P33
chr3	1.42E+08	1.42E+08	G	A	exonic	nonsynonymous SN\	CLSTN2	NM_022131:c.G2297A;p.R766H	0.09 P34
chr4	1.26E+08	1.26E+08	C	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.C905T;p.T302M	P34
chr4	1.26E+08	1.26E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G4612T;p.D1538Y	P34
chr5	82851338	82851338	C	T	exonic	nonsynonymous SN\	VCAN	NM_001164098:c.C1457T;p.S486L	0 P34
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3808T;p.G1270X	0.01 P34
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.C2036T;p.S679L	0.29 P34
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SN\	PCDHB14	NM_018934:c.G14A;p.G5E	0.54 P34
chr6	1.3E+08	1.3E+08	G	A	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.G3676A;p.E1226K	0.76 P34
chr6	1.47E+08	1.47E+08	G	A	exonic	nonsynonymous SN\	GRM1	NM_000838:c.G1339A;p.G447S	0 P34
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C529T;p.R177W	0 P34
chr7	1.13E+08	1.13E+08	C	A	exonic	stopgain SNV	PPP1R3A	NM_002711:c.G1237T;p.G413X	P34
chr8	1.09E+08	1.09E+08	C	T	exonic	nonsynonymous SN\	RSP02	NM_178565:c.G257A;p.R86Q	0 P34
chr9	1.37E+08	1.37E+08	G	A	exonic	nonsynonymous SN\	COL5A1	NM_000093:c.G5041A;p.V1681I	0.75 P34
chr10	55582995	55582995	G	A	exonic	nonsynonymous SN\	PCDH15	NM_001142767:c.C1544T;p.A515V	0.01 P34
chr10	55582996	55582996	C	T	exonic	nonsynonymous SN\	PCDH15	NM_001142767:c.G1543A;p.A515T	0.03 P34
chr10	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SN\	CTBP2	NM_022802:c.G418A;p.G140R	0 P34
chr16	60408951	60408951	C	A	exonic	nonsynonymous SN\	CDH8	NM_001796:c.G1210T;p.A404S	0.01 P34
chr17	7517845	7517845	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G422A;p.R141H	rs28934576 0.01 P34
chr1	45042611	45042611	G	C	exonic	synonymous SNV	PLK3	NM_004073:c.G1356C;p.P452P	rs11211036 P46
chr1	70224605	70224605	T	C	exonic	synonymous SNV	LRRC7	NM_020794:c.T765C;p.L255L	rs17131103 P46
chr1	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SN\	FLG	NM_002016:c.G11722A;p.D3908N	rs3814300 0 P46
chr1	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FLG	NM_002016:c.C1791T;p.S597S	P46
chr1	1.57E+08	1.57E+08	T	C	exonic	synonymous SNV	SPTA1	NM_003126:c.A7095G;p.A2365A	rs2251969 P46
chr1	1.57E+08	1.57E+08	G	A	exonic	synonymous SNV	SPTA1	NM_003126:c.C5958T;p.P1986P	rs3753068 P46
chr1	1.57E+08	1.57E+08	G	C	exonic	nonsynonymous SN\	SPTA1	NM_003126:c.C5572G;p.L1858V	rs3737515 0.01 P46
chr1	1.57E+08	1.57E+08	A	G	exonic	nonsynonymous SN\	SPTA1	NM_003126:c.T4702C;p.C1568R	rs863931 0.95 P46
chr1	1.57E+08	1.57E+08	C	T	exonic	synonymous SNV	SPTA1	NM_003126:c.G2874A;p.L958L	rs857691 P46
chr1	1.57E+08	1.57E+08	A	C	exonic	synonymous SNV	SPTA1	NM_003126:c.T2493G;p.L831L	rs2518493 P46
chr1	1.58E+08	1.58E+08	T	G	exonic	nonsynonymous SN\	ATP1A4	NM_144699:c.T1622G;p.M541R	rs16831482 0.28 P46
chr1	2.14E+08	2.14E+08	G	C	exonic	nonsynonymous SN\	USH2A	NM_206933:c.C6628G;p.P2210A	1 P46

chr1	2.14E+08	2.14E+08	A	G	exonic	nonsynonymous SN\ USH2A	NM_206933:c.T6317C;p.I2106T	rs6657250	0.87	P46
chr1	2.46E+08	2.46E+08	T	A	exonic	stopgain SNV OR2M5	NM_001004690:c.T914A;p.L305X	rs77689140	0	P46
chr1	2.46E+08	2.46E+08	G	A	exonic	synonymous SNV OR2M3	NM_001004689:c.G333A;p.E111E	rs4916112		P46
chr2	15388299	15388299	C	T	exonic	synonymous SNV NBAS	NM_015909:c.G4221A;p.L1407L	rs34395824		P46
chr2	15518892	15518892	C	T	exonic	synonymous SNV NBAS	NM_015909:c.G2223A;p.L741L	rs7590340		P46
chr2	15525293	15525293	T	C	exonic	nonsynonymous SN\ NBAS	NM_015909:c.A1964G;p.K655R	rs4668909	0.64	P46
chr2	15531855	15531855	T	C	exonic	synonymous SNV NBAS	NM_015909:c.A1386G;p.R462R	rs13014906		P46
chr2	15533361	15533361	A	G	exonic	synonymous SNV NBAS	NM_015909:c.T1242C;p.S414S	rs1990754		P46
chr2	15592137	15592137	T	C	exonic	nonsynonymous SN\ NBAS	NM_015909:c.A727G;p.I243V	rs13029846	0.09	P46
chr2	15618861	15618861	C	G	exonic	nonsynonymous SN\ NBAS	NM_015909:c.G19C;p.G7R		0.02	P46
chr2	99145563	99145563	T	C	exonic	synonymous SNV LIPT1	NM_145199:c.T711C;p.A237A	rs2516835		P46
chr2	1.7E+08	1.7E+08	C	T	exonic	nonsynonymous SN\ LRP2	NM_004525:c.G8614A;p.A2872T	rs2228171	0.12	P46
chr2	1.9E+08	1.9E+08	G	A	exonic	nonsynonymous SN\ COL3A1	NM_000090:c.G2092A;p.A698T	rs1800255	0.17	P46
chr2	2.12E+08	2.12E+08	T	C	exonic	synonymous SNV ERBB4	NM_001042599:c.A3147G;p.V1049	rs3748962		P46
chr2	2.38E+08	2.38E+08	G	A	exonic	nonsynonymous SN\ COL6A3	NM_057166:c.C7385T;p.T2462I	rs1131296		P46
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV COL6A3	NM_057166:c.G6108A;p.A2036A	rs4433949		P46
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SN\ COL6A3	NM_057166:c.G3074A;p.R1025Q	rs111231885		P46
chr2	2.38E+08	2.38E+08	C	A	exonic	synonymous SNV COL6A3	NM_057166:c.G2712T;p.G904G	rs2645774		P46
chr2	2.38E+08	2.38E+08	A	G	exonic	synonymous SNV COL6A3	NM_057166:c.T2490C;p.I830I	rs2646260		P46
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV COL6A3	NM_057164:c.G3081A;p.S1027S	rs3791000		P46
chr2	2.38E+08	2.38E+08	T	G	exonic	nonsynonymous SN\ COL6A3	NM_057166:c.A1441C;p.K481Q	rs11896521		P46
chr2	2.38E+08	2.38E+08	G	A	exonic	synonymous SNV COL6A3	NM_057166:c.C1308T;p.G436G	rs12622093		P46
chr2	2.38E+08	2.38E+08	C	A	exonic	nonsynonymous SN\ COL6A3	NM_057164:c.G1267T;p.A423S	rs77181645		P46
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SN\ COL6A3	NM_057164:c.G1198A;p.A400T	rs113155945		P46
chr3	41255831	41255831	C	T	exonic	synonymous SNV CTNNB1	NM_001098209:c.C2340T;p.D780C	rs2293303		P46
chr3	1.44E+08	1.44E+08	A	G	exonic	synonymous SNV ATR	NM_0011184:c.T5208C;p.Y1736Y	rs2227931		P46
chr3	1.44E+08	1.44E+08	A	G	exonic	synonymous SNV ATR	NM_0011184:c.T1815C;p.D605D	rs2227929		P46
chr3	1.88E+08	1.88E+08	T	C	exonic	nonsynonymous SN\ KNG1	NM_000893:c.T533C;p.M178T	rs1656922	0.8	P46
chr4	47783297	47783297	G	A	exonic	nonsynonymous SN\ TXK	NM_003328:c.C899T;p.A300V	rs34574349	0.13	P46
chr4	54824835	54824835	T	C	exonic	synonymous SNV PDGFRA	NM_006206:c.T612C;p.N204N	rs2229307		P46
chr4	54828483	54828483	T	G	exonic	synonymous SNV PDGFRA	NM_006206:c.T939G;p.G313G	rs4358459		P46
chr4	54834528	54834528	T	C	exonic	nonsynonymous SN\ PDGFRA	NM_006206:c.T1432C;p.S478P	rs35597368	0.31	P46
chr4	54838334	54838334	G	A	exonic	synonymous SNV PDGFRA	NM_006206:c.G1809A;p.A603A	rs10028020		P46
chr4	54846797	54846797	C	T	exonic	synonymous SNV PDGFRA	NM_006206:c.C2472T;p.V824V	rs2228230		P46
chr4	82311894	82311894	A	G	exonic	synonymous SNV PRKG2	NM_006259:c.T717C;p.N239N	rs17005080		P46
chr4	1.26E+08	1.26E+08	C	T	exonic	nonsynonymous SN\ FAT4	NM_024582:c.C2420T;p.A807V	rs1039808		P46
chr4	1.26E+08	1.26E+08	G	A	exonic	nonsynonymous SN\ FAT4	NM_024582:c.G2914A;p.G972S			P46
chr4	1.26E+08	1.26E+08	T	C	exonic	synonymous SNV FAT4	NM_024582:c.T2944C;p.L982L	rs2940779		P46
chr4	1.26E+08	1.26E+08	C	T	exonic	synonymous SNV FAT4	NM_024582:c.C4305T;p.I1435I	rs2710555		P46
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SN\ FAT4	NM_024582:c.G10571A;p.G3524D	rs1567047	0.06	P46
chr4	1.27E+08	1.27E+08	A	C	exonic	nonsynonymous SN\ FAT4	NM_024582:c.A10804C;p.I3602L	rs76491994	0.04	P46
chr4	1.55E+08	1.55E+08	G	A	exonic	nonsynonymous SN\ DCHS2	NM_017639:c.C8027T;p.P2676L	rs61746132	0.02	P46
chr4	1.55E+08	1.55E+08	C	T	exonic	nonsynonymous SN\ DCHS2	NM_017639:c.G4783A;p.E1595K	rs28561984	1	P46
chr4	1.55E+08	1.55E+08	A	G	exonic	synonymous SNV DCHS2	NM_017639:c.T4740C;p.D1580D	rs17031387		P46
chr4	1.57E+08	1.57E+08	C	T	exonic	synonymous SNV GUCY1A3	NM_001130684:c.C1008T;p.S336S			P46
chr5	82851776	82851776	C	T	exonic	nonsynonymous SN\ VCAN	NM_001164098:c.C1895T;p.T632M		0	P46
chr5	1.4E+08	1.4E+08	A	T	exonic	nonsynonymous SN\ PCDHAC1	NM_018898:c.A1097T;p.D366V		0	P46
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\ PCDHB3	NM_018937:c.G619A;p.E207K	rs12515688	0.08	P46
chr5	1.4E+08	1.4E+08	A	T	exonic	nonsynonymous SN\ PCDHB3	NM_018937:c.A1242T;p.R414S	rs3733699	0.21	P46
chr5	1.41E+08	1.41E+08	T	C	exonic	nonsynonymous SN\ PCDHB8	NM_019120:c.T2299C;p.F767L	rs2740583	0.04	P46
chr6	12404241	12404241	G	T	exonic	nonsynonymous SN\ EDN1	NM_001168319:c.G591T;p.K197N	rs5370	0.02	P46
chr6	1.29E+08	1.29E+08	C	T	exonic	synonymous SNV LAMA2	NM_000426:c.C156T;p.I52I	rs1140366		P46
chr6	1.3E+08	1.3E+08	G	T	exonic	nonsynonymous SN\ LAMA2	NM_000426:c.G2217T;p.W739C		0.02	P46

chr6	1.3E+08	1.3E+08	A	G	exonic	synonymous SNV	LAMA2	NM_000426:c.A2799G;p.Q933Q	rs1027199		P46
chr6	1.3E+08	1.3E+08	G	A	exonic;splicing	nonsynonymous SNV	LAMA2	NM_000426:c.G3412A;p.V1138M	rs2306942	0.09	P46
chr6	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV	LAMA2	NM_000426:c.G6237A;p.T2079T	rs2297738		P46
chr6	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV	LAMA2	NM_001079823:c.G7833A;p.P2611	rs2229850		P46
chr6	1.53E+08	1.53E+08	T	C	exonic	synonymous SNV	SYNE1	NM_133650:c.A1479G;p.E493E	rs2747662		P46
chr6	1.53E+08	1.53E+08	C	G	exonic	nonsynonymous SNV	SYNE1	NM_133650:c.G1454C;p.G485A	rs2252755	0.52	P46
chr6	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV	SYNE1	NM_133650:c.G1311A;p.P437P	rs2252748		P46
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C16064T;p.T5355M	rs2306914	0.08	P46
chr6	1.53E+08	1.53E+08	G	C	exonic	synonymous SNV	SYNE1	NM_033071:c.C15384G;p.A5128A	rs9383987		P46
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C7640T;p.T2547M		0.01	P46
chr6	1.53E+08	1.53E+08	A	G	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.T3125C;p.V1042A	rs214976	0.02	P46
chr6	1.66E+08	1.66E+08	T	C	exonic	synonymous SNV	PDE10A	NM_001130690:c.A204G;p.S68S	rs9459421		P46
chr6	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	THBS2	NM_003247:c.C2007T;p.G669G	rs35935937		P46
chr7	37265325	37265325	C	T	exonic	synonymous SNV	ELMO1	NM_014800:c.G399A;p.V133V	rs2717968		P46
chr7	47935452	47935452	C	A	exonic	nonsynonymous SNV	PKD1L1	NM_138295:c.G934T;p.V312F	rs2686817	0	P46
chr7	91468556	91468556	G	T	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.G1389T;p.M463I	rs6964587	0.38	P46
chr7	91529537	91529537	C	T	exonic	synonymous SNV	AKAP9	NM_005751:c.C5778T;p.G1926G	rs10236397		P46
chr7	91550634	91550634	A	G	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.A8375G;p.N2792S	rs6960867	0.34	P46
chr7	91551908	91551908	C	T	exonic	synonymous SNV	AKAP9	NM_005751:c.C8665T;p.L2889L	rs10228334		P46
chr7	91553598	91553598	C	T	exonic	synonymous SNV	AKAP9	NM_005751:c.C9145T;p.L3049L	rs28927678		P46
chr7	91564863	91564863	A	C	exonic	synonymous SNV	AKAP9	NM_005751:c.A10426C;p.R3476R	rs1063243		P46
chr7	1E+08	1E+08	G	A	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.G431A;p.G144D	rs76440115		P46
chr7	1E+08	1E+08	A	C	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.A679C;p.K227Q	rs10229731		P46
chr7	1E+08	1E+08	C	T	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.C1016T;p.T339M	rs4729645		P46
chr7	1E+08	1E+08	C	T	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.C3170T;p.S1057F		0.03	P46
chr7	1E+08	1E+08	C	T	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.C3476T;p.T1159	rs77274379	0.05	P46
chr7	1E+08	1E+08	T	C	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.T4043C;p.L1348I	rs4269454		P46
chr7	1E+08	1E+08	A	C	exonic	synonymous SNV	MUC17	NM_001040105:c.A5841C;p.S1947	rs78512922		P46
chr7	1E+08	1E+08	G	A	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.G6286A;p.A2096	rs28593004		P46
chr7	1E+08	1E+08	A	G	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.A6475G;p.R2155I	rs28555173		P46
chr7	1E+08	1E+08	T	G	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.T8353G;p.S2785	rs74403802		P46
chr7	1E+08	1E+08	C	T	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.C9167T;p.T3056	rs77120544		P46
chr7	1.03E+08	1.03E+08	T	C	exonic	synonymous SNV	RELN	NM_005045:c.A10074G;p.A3358A	rs1062831		P46
chr7	1.03E+08	1.03E+08	A	G	exonic	synonymous SNV	RELN	NM_005045:c.T7110C;p.V2370V	rs362746		P46
chr7	1.03E+08	1.03E+08	T	C	exonic	synonymous SNV	RELN	NM_005045:c.A1776G;p.E592E	rs2072403		P46
chr7	1.13E+08	1.13E+08	C	A	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.G2713T;p.D905Y	rs1799999	0	P46
chr7	1.28E+08	1.28E+08	T	C	exonic	synonymous SNV	FLNC	NM_001127487:c.T5664C;p.T1888	rs3816884		P46
chr7	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	FLNC	NM_001127487:c.C7122T;p.D2374	rs3816885		P46
chr7	1.54E+08	1.54E+08	C	T	exonic	synonymous SNV	PAXIP1	NM_007349:c.G1245A;p.P415P	rs61752011		P46
chr8	41910440	41910440	G	A	exonic	synonymous SNV	MYST3	NM_006766:c.C4455T;p.S1485S	rs3739365		P46
chr8	41917574	41917574	C	T	exonic	synonymous SNV	MYST3	NM_006766:c.G2982A;p.P994P	rs3824275		P46
chr8	42025252	42025252	A	G	exonic	nonsynonymous SNV	MYST3	NM_006766:c.T401C;p.L134S	rs3824276	0.03	P46
chr8	97961300	97961300	C	G	exonic	nonsynonymous SNV	PGCP	NM_016134:c.C740G;p.S247C		0.05	P46
chr9	1.17E+08	1.17E+08	C	G	exonic	nonsynonymous SNV	TNC	NM_002160:c.G6022C;p.E2008Q	rs13321	0.64	P46
chr9	1.17E+08	1.17E+08	T	C	exonic	synonymous SNV	TNC	NM_002160:c.A5673G;p.R1891R	rs12347433		P46
chr9	1.17E+08	1.17E+08	T	A	exonic	nonsynonymous SNV	TNC	NM_002160:c.A5029T;p.I1677L	rs2104772	0.69	P46
chr9	1.17E+08	1.17E+08	C	T	exonic	nonsynonymous SNV	TNC	NM_002160:c.G1813A;p.V605I	rs3827816	0.16	P46
chr10	5232164	5232164	A	G	exonic	synonymous SNV	AKR1C4	NM_001818:c.A105G;p.V35V	rs17306779		P46
chr10	5237784	5237784	C	G	exonic	nonsynonymous SNV	AKR1C4	NM_001818:c.C434G;p.S145C	rs3829125	0.54	P46
chr10	5250682	5250682	C	G	exonic;splicing	nonsynonymous SNV	AKR1C4	NM_001818:c.C931G;p.L311V	rs17134592	0.52	P46
chr10	35969137	35969137	G	A	exonic	synonymous SNV	FZD8	NM_031866:c.C1227T;p.A409A	rs74989785		P46
chr10	1.06E+08	1.06E+08	T	C	exonic	nonsynonymous SNV	COL17A1	NM_000494:c.A4109G;p.D1370G	rs17116350	0.49	P46
chr10	1.06E+08	1.06E+08	C	T	exonic	nonsynonymous SNV	COL17A1	NM_000494:c.G2755A;p.D919N	rs117564807	0.06	P46

chr10	1.06E+08	1.06E+08	G	A	exonic	nonsynonymous SNV	COL17A1	NM_000494:c.C1642T;p.L548F		0	P46
chr10	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	CTBP2	NM_022802:c.C125T;p.T42M		0	P46
chr10	1.29E+08	1.29E+08	T	C	exonic	synonymous SNV	DOCK1	NM_001380:c.T4482C;p.I1494I	rs2229600		P46
chr11	66957395	66957395	C	T	exonic	synonymous SNV	RPS6KB2	NM_003952:c.C807T;p.F269F	rs4930427		P46
chr11	66958732	66958732	C	T	exonic	nonsynonymous SNV	RPS6KB2	NM_003952:c.C1259T;p.A420V	rs13859		P46
chr11	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SNV	ATM	NM_000051:c.G5362A;p.G1788S		0.61	P46
chr11	1.08E+08	1.08E+08	T	C	exonic	synonymous SNV	ATM	NM_000051:c.T6108C;p.Y2036Y	rs3092826		P46
chr11	1.34E+08	1.34E+08	C	G	exonic	synonymous SNV	GLB1L2	NM_138342:c.C1680G;p.T560T	rs3741097		P46
chr12	7179223	7179223	C	T	exonic	synonymous SNV	CLSTN3	NM_014718:c.C417T;p.N139N	rs34933247		P46
chr12	22245981	22245981	G	A	exonic	synonymous SNV	ST8SIA1	NM_003034:c.C843T;p.S281S			P46
chr12	46813453	46813453	C	T	exonic	synonymous SNV	PFKM	NM_001166688:c.C516T;p.T172T	rs1049392		P46
chr12	74023862	74023862	T	C	exonic	synonymous SNV	GLIPR1L1	NM_152779:c.T297C;p.N99N	rs56713198		P46
chr12	94656026	94656026	A	G	exonic	nonsynonymous SNV	NTN4	NM_021229:c.T613C;p.Y205H	rs17288108	0.49	P46
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C525T;p.S175S	rs2878960		P46
chr12	1.08E+08	1.08E+08	A	G	exonic	nonsynonymous SNV	ACACB	NM_001093:c.A1654G;p.I552V	rs16940029	1	P46
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C2184T;p.G728G	rs7135947		P46
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C6204T;p.H2068H	rs3742023		P46
chr13	46307738	46307738	G	A	exonic	synonymous SNV	HTR2A	NM_001165947:c.C399T;p.D133D			P46
chr14	19735630	19735630	T	A	exonic	nonsynonymous SNV	OR11G2	NM_001005503:c.T296A;p.I99N	rs4981822	0.01	P46
chr15	26086467	26086467	G	A	exonic	synonymous SNV	HERC2	NM_004667:c.C10515T;p.A3505A	rs61756152		P46
chr15	67111013	67111013	C	G	exonic	nonsynonymous SNV	NOX5	NM_001184779:c.C343G;p.P115A	rs78571685		P46
chr15	75131848	75131848	T	A	exonic	synonymous SNV	TSPAN3	NM_001168412:c.A411T;p.V137V	rs11737		P46
chr16	4105070	4105070	G	A	exonic	synonymous SNV	ADCY9	NM_0011116:c.C375T;p.F125F			P46
chr17	3607103	3607103	A	G	exonic	synonymous SNV	ITGAE	NM_002208:c.T1095C;p.H365H			P46
chr17	10244986	10244986	G	A	exonic	synonymous SNV	MYH8	NM_002472:c.C3270T;p.I1090I	rs3744552		P46
chr17	43109423	43109423	C	T	exonic	synonymous SNV	KPNB1	NM_002265:c.C2034T;p.C678C	rs72628350		P46
chr17	75920466	75920466	G	A	exonic	nonsynonymous SNV	RNF213	NM_020914:c.G3730A;p.V1244M	rs10782008		P46
chr17	75920697	75920697	G	C	exonic	nonsynonymous SNV	RNF213	NM_020914:c.G3961C;p.E1321Q	rs9913636		P46
chr17	75920875	75920875	A	G	exonic	nonsynonymous SNV	RNF213	NM_020914:c.A4139G;p.D1380G	rs8074015		P46
chr17	75920903	75920903	C	G	exonic	synonymous SNV	RNF213	NM_020914:c.C4167G;p.V1389V	rs9908287		P46
chr17	75926103	75926103	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G4797A;p.A1599A	rs4890009		P46
chr17	75933731	75933731	G	A	exonic	nonsynonymous SNV	RNF213	NM_020914:c.G7148A;p.S2383N	rs9674961	0.44	P46
chr17	75933975	75933975	G	C	exonic	synonymous SNV	RNF213	NM_020914:c.G7392C;p.P2464P	rs4890012		P46
chr17	75952924	75952924	C	T	exonic	synonymous SNV	RNF213	NM_020914:c.C11994T;p.T3998T	rs117705614		P46
chr18	6967844	6967844	A	G	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.T6227C;p.I2076T	rs671871	0.67	P46
chr18	6975270	6975270	C	T	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.G5626A;p.A1876T	rs11664063	0.57	P46
chr18	6976259	6976259	G	A	exonic	synonymous SNV	LAMA1	NM_005559:c.C5256T;p.H1752H	rs62081531		P46
chr18	6983673	6983673	T	C	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.A4975G;p.H659V	rs62081533	0.75	P46
chr18	6987818	6987818	A	C	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.T4729G;p.S1577A	rs12961939	0	P46
chr18	6989628	6989628	T	C	exonic	synonymous SNV	LAMA1	NM_005559:c.A4479G;p.S1493S	rs625106		P46
chr18	49190992	49190992	T	C	exonic	synonymous SNV	DCC	NM_005215:c.T3108C;p.P1036P	rs34395300		P46
chr18	49239635	49239635	G	A	exonic	nonsynonymous SNV	DCC	NM_005215:c.G3428A;p.G1143D		0.01	P46
chr19	43682296	43682296	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C7209T;p.R2403R	rs78795178		P46
chr19	43743846	43743846	G	A	exonic	nonsynonymous SNV	RYR1	NM_001042723:c.G12521A;p.R4174H			P46
chr19	59939815	59939815	G	C	splicing		KIR3DL3				P46
chr19	60069820	60069820	C	T	exonic	nonsynonymous SNV	KIR3DL2	NM_006737:c.C1190T;p.T397M	rs3745902	0.01	P46
chr19	61102034	61102034	C	T	exonic	synonymous SNV	NLRP13	NM_176810:c.G2871A;p.L957L	rs302827		P46
chr19	61116344	61116344	G	A	exonic	synonymous SNV	NLRP13	NM_176810:c.C651T;p.R217R	rs731338		P46
chr20	23369079	23369079	A	G	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.A175G;p.T59A	rs7361799	0.03	P46
chr20	44113819	44113819	C	T	exonic	synonymous SNV	SLC12A5	NM_001134771:c.C2349T;p.S783S	rs3746522		P46
chr20	44115150	44115150	C	T	exonic	nonsynonymous SNV	SLC12A5	NM_001134771:c.C2594T;p.P865L		0.05	P46
chr20	58015195	58015195	C	G	exonic	synonymous SNV	CDH26	NM_021810:c.C252G;p.L84L	rs7267644		P46
chr21	45722229	45722229	G	A	exonic	synonymous SNV	COL18A1	NM_030582:c.G1683A;p.A561A	rs2230689		P46

chr21	45731795	45731795	A	G	exonic	nonsynonymous SN\ COL18A1	NM_030582:c.A2380G:p.M794V			P46
chrX	32290988	32290988	C	G	exonic	nonsynonymous SN\ DMD	NM_004011:c.G11440C:p.K380N	rs72468630	0.21	P46
chrX	32413115	32413115	T	C	exonic	nonsynonymous SN\ DMD	NM_004007:c.A2276G:p.D759G	rs228406	0.58	P46
chrX	1.52E+08	1.52E+08	G	C	exonic	synonymous SNV ATP2B3	NM_001001344:c.G2592C:p.V864\	rs2269415		P46
chr1	1.58E+08	1.58E+08	T	A	exonic	synonymous SNV ATP1A4	NM_144699:c.T2562A:p.R854R			P60
chr1	1.84E+08	1.84E+08	T	C	exonic	synonymous SNV HMCN1	NM_031935:c.T4857C:p.H1619H	rs6665753		P60
chr1	2.14E+08	2.14E+08	C	T	exonic	synonymous SNV USH2A	NM_206933:c.G13191A:p.E4397E	rs2009923		P60
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SN\ USH2A	NM_206933:c.A9595G:p.N3199D	rs4129843	0.36	P60
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SN\ USH2A	NM_206933:c.A9343G:p.T3115A	rs56032526	0.52	P60
chr1	2.14E+08	2.14E+08	G	A	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C8656T:p.L2886F	rs41277200	0.76	P60
chr1	2.15E+08	2.15E+08	G	A	exonic	synonymous SNV USH2A	NM_007123:c.C1419T:p.T473T	rs1805050		P60
chr1	2.46E+08	2.46E+08	A	G	exonic	nonsynonymous SN\ OR2M5	NM_001004690:c.A907G:p.K303E	rs73141283	0.01	P60
chr1	2.46E+08	2.46E+08	C	T	exonic	nonsynonymous SN\ OR2M3	NM_001004689:c.C781T:p.R261W		0.03	P60
chr1	2.47E+08	2.47E+08	C	T	exonic	synonymous SNV OR2M7	NM_001004691:c.G855A:p.L285L	rs4451579		P60
chr2	39148291	39148291	T	G	exonic	synonymous SNV SOS1	NM_005633:c.A195C:p.R65R	rs7609455		P60
chr2	1.05E+08	1.05E+08	G	A	exonic	synonymous SNV FHL2	NM_001450:c.C804T:p.D268D	rs3087523		P60
chr2	1.7E+08	1.7E+08	C	T	exonic	synonymous SNV LRP2	NM_004525:c.G10503A:p.Q3501Q	rs2229265		P60
chr2	1.7E+08	1.7E+08	G	C	exonic	synonymous SNV LRP2	NM_004525:c.C7626G:p.R2542R	rs13397109		P60
chr2	1.7E+08	1.7E+08	T	C	exonic	synonymous SNV LRP2	NM_004525:c.A3660G:p.A1220A	rs831042		P60
chr2	1.7E+08	1.7E+08	T	C	exonic	synonymous SNV LRP2	NM_004525:c.A3069G:p.T1023T	rs831043		P60
chr2	1.7E+08	1.7E+08	T	C	exonic	synonymous SNV LRP2	NM_004525:c.A2460G:p.T820T	rs2241190		P60
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV COL6A3	NM_057166:c.G5775A:p.K1925K	rs2291795		P60
chr3	8750661	8750661	C	T	exonic	synonymous SNV CAV3	NM_001234:c.C99T:p.N33N	rs1008642		P60
chr3	1.25E+08	1.25E+08	T	C	splicing	MYLK		rs6438804		P60
chr3	1.25E+08	1.25E+08	A	G	exonic	synonymous SNV MYLK	NM_053026:c.T4635C:p.N1545N	rs820463		P60
chr3	1.44E+08	1.44E+08	C	T	exonic	nonsynonymous SN\ ATR	NM_001184:c.G4052A:p.R1351Q		0.09	P60
chr3	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV IGSF10	NM_001178145:c.C810T:p.N270N	rs6781302		P60
chr4	25026207	25026207	T	A	exonic	synonymous SNV ANAPC4	NM_013367:c.T1848A:p.I616I	rs3214035		P60
chr4	25028381	25028381	T	C	exonic	synonymous SNV ANAPC4	NM_013367:c.T2121C:p.F707F	rs9174		P60
chr4	1.26E+08	1.26E+08	G	A	exonic	synonymous SNV FAT4	NM_024582:c.G831A:p.A277A			P60
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SN\ FAT4	NM_024582:c.C10564T:p.R3522W		0.01	P60
chr4	1.27E+08	1.27E+08	C	T	exonic	synonymous SNV FAT4	NM_024582:c.C14355T:p.V4785V	rs1014865		P60
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SN\ FAT4	NM_024582:c.C14914T:p.P4972S	rs1014867	0.45	P60
chr4	1.55E+08	1.55E+08	G	A	exonic	nonsynonymous SN\ DCHS2	NM_017639:c.C3614T:p.S1205L	rs11935573	0.01	P60
chr4	1.55E+08	1.55E+08	A	G	exonic	synonymous SNV DCHS2	NM_001142552:c.T2556C:p.G852C	rs6858157		P60
chr4	1.56E+08	1.56E+08	A	G	exonic	nonsynonymous SN\ DCHS2	NM_017639:c.T458C:p.V153A	rs11721758	0.06	P60
chr5	24523765	24523765	G	A	exonic	nonsynonymous SN\ CDH10	NM_006727:c.C2131T:p.R711W		0.02	P60
chr5	34944634	34944634	T	C	exonic	nonsynonymous SN\ RAD1	NM_002853:c.A842G:p.E281G	rs1805327	0.03	P60
chr5	34951705	34951705	A	G	exonic	synonymous SNV BRX1	NM_018321:c.A105G:p.T35T	rs2069465		P60
chr5	82843828	82843828	C	T	exonic	nonsynonymous SN\ VCAN	NM_001126336:c.C899T:p.S300L	rs2652098	0	P60
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C2572T:p.R858X		0.03	P60
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\ PCDHA4	NM_018907:c.A2227G:p.S743G		0.02	P60
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\ PCDHA7	NM_018910:c.C1688T:p.P563L		0	P60
chr5	1.4E+08	1.4E+08	G	C	exonic	nonsynonymous SN\ PCDHA9	NM_014005:c.G1288C:p.G430R	rs251355	0.28	P60
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV PCDHA9	NM_014005:c.C1353T:p.N451N			P60
chr5	1.4E+08	1.4E+08	A	C	exonic	nonsynonymous SN\ PCDHA9	NM_014005:c.A2290C:p.K764Q	rs369636	0.04	P60
chr5	1.4E+08	1.4E+08	A	C	exonic	nonsynonymous SN\ PCDHA9	NM_014005:c.A2291C:p.K764T	rs369639	0.62	P60
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\ PCDHA10	NM_018901:c.A1915G:p.T639A	rs630162		P60
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\ PCDHA10	NM_018901:c.G2012A:p.G671D	rs17844348		P60
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\ PCDHB2	NM_018936:c.G382A:p.V128I	rs31853	1	P60
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\ PCDHB3	NM_018937:c.A122G:p.K41R	rs31849	0.83	P60
chr5	1.4E+08	1.4E+08	A	G	exonic	synonymous SNV PCDHB3	NM_018937:c.A345G:p.Q115Q	rs17844387		P60
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\ PCDHB4	NM_018938:c.G1261A:p.A421T	rs3776099	1	P60

chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SNV	PCDHB4	NM_018938:c.C1951T;p.R651C	rs17844417	0	P60
chr5	1.41E+08	1.41E+08	T	A	exonic	synonymous SNV	PCDHB11	NM_018931:c.T1146A;p.V382V	rs3733688		P60
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV	PCDHB11	NM_018931:c.G2217A;p.V739V			P60
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SNV	PCDHB12	NM_018932:c.C1259T;p.T420I	rs2910327	0	P60
chr5	1.41E+08	1.41E+08	A	G	exonic	nonsynonymous SNV	PCDHB12	NM_018932:c.A2287G;p.K763E	rs2910006	1	P60
chr5	1.51E+08	1.51E+08	A	G	exonic	nonsynonymous SNV	FAT2	NM_001447:c.T1490C;p.I497T		0.01	P60
chr5	1.69E+08	1.69E+08	C	A	exonic	synonymous SNV	DOCK2	NM_004946:c.C1212A;p.T404T	rs2112703		P60
chr5	1.69E+08	1.69E+08	T	C	exonic	synonymous SNV	DOCK2	NM_004946:c.T4896C;p.R1632R	rs1045168		P60
chr6	1.3E+08	1.3E+08	T	C	exonic	synonymous SNV	LAMA2	NM_000426:c.T1491C;p.C497C	rs2306220		P60
chr6	1.3E+08	1.3E+08	C	T	exonic	nonsynonymous SNV	LAMA2	NM_001079823:c.C7748T;p.A2583	rs6569605	0.6	P60
chr6	1.52E+08	1.52E+08	T	C	exonic	synonymous SNV	SYNE1	NM_133650:c.A2853G;p.P951P			P60
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_015293:c.C1317T;p.H439H	rs12664753		P60
chr6	1.53E+08	1.53E+08	C	G	exonic	synonymous SNV	SYNE1	NM_033071:c.G13848C;p.L4616L	rs3734365		P60
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C8405T;p.A2802V	rs214950	0.03	P60
chr6	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	THBS2	NM_003247:c.C3075T;p.A1025A	rs9505895		P60
chr7	98420514	98420514	T	G	exonic	synonymous SNV	TRRAP	NM_003496:c.T9225G;p.V3075V			P60
chr7	1.03E+08	1.03E+08	G	C	exonic	nonsynonymous SNV	LAMA2	NM_005045:c.C2989G;p.L997V	rs362691	0.86	P60
chr7	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	FLNC	NM_001127487:c.C147T;p.H49H	rs3734972		P60
chr7	1.51E+08	1.51E+08	G	T	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C11374A;p.Q3792K	rs75191113	0	P60
chr8	52908706	52908706	C	T	exonic	synonymous SNV	PCMTD1	NM_052937:c.G507A;p.V169V	rs9298462		P60
chr9	1.17E+08	1.17E+08	C	T	exonic	nonsynonymous SNV	TNC	NM_002160:c.G5341A;p.A1781T	rs2274750	0.02	P60
chr9	1.17E+08	1.17E+08	T	C	exonic	synonymous SNV	TNC	NM_002160:c.A5202G;p.T1734T	rs1061495		P60
chr9	1.17E+08	1.17E+08	A	G	exonic	nonsynonymous SNV	TNC	NM_002160:c.T4142C;p.V1381A		0.09	P60
chr9	1.17E+08	1.17E+08	C	T	exonic	synonymous SNV	TNC	NM_002160:c.G195A;p.S65S	rs10982521		P60
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C573T;p.L191L	rs116715381		P60
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C1092T;p.P364P	rs41306391		P60
chr10	55425497	55425497	C	T	exonic	nonsynonymous SNV	PCDH15	NM_001142765:c.G2573A;p.R858C	rs2135720	0.42	P60
chr10	56093974	56093974	A	C	exonic	nonsynonymous SNV	PCDH15	NM_001142763:c.T55G;p.S19A	rs11004439	0.04	P60
chr10	95269496	95269496	A	T	exonic	nonsynonymous SNV	CEP55	NM_001127182:c.A1133T;p.H378L	rs2293277	0.13	P60
chr10	1.06E+08	1.06E+08	A	C	exonic	nonsynonymous SNV	COL17A1	NM_000494:c.T3085G;p.S1029A	rs118166857	0.32	P60
chr10	1.16E+08	1.16E+08	T	A	exonic	nonsynonymous SNV	C10orf81	NM_001193435:c.T205A;p.F69I	rs41292632	0.16	P60
chr10	1.16E+08	1.16E+08	T	C	exonic	synonymous SNV	C10orf81	NM_001193435:c.T759C;p.A253A	rs3750901		P60
chr11	1.06E+08	1.06E+08	G	A	exonic	synonymous SNV	GUCY1A2	NM_000855:c.C432T;p.N144N	rs35760785		P60
chr11	1.24E+08	1.24E+08	A	T	exonic	nonsynonymous SNV	OR8B8	NM_012378:c.T230A;p.I77N	rs117106656	0	P60
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A;p.G12D		0	P60
chr12	46654243	46654243	C	T	exonic	nonsynonymous SNV	COL2A1	NM_033150:c.G4006A;p.G1336S	rs2070739	0.01	P60
chr12	46787428	46787428	A	T	exonic	nonsynonymous SNV	PFKM	NM_001166686:c.A5T;p.H2L	rs11609399	0	P60
chr12	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	TMEM132D	NM_133448:c.G1821A;p.T607T	rs79031518		P60
chr13	23927295	23927295	C	T	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G2618A;p.S873N	rs7140044	0.53	P60
chr13	23950261	23950261	C	T	exonic	synonymous SNV	PARP4	NM_006437:c.G1602A;p.S534S	rs4770696		P60
chr14	22944381	22944381	C	T	exonic	synonymous SNV	MYH6	NM_002471:c.G393A;p.L131L	rs17277970		P60
chr14	49652833	49652833	G	T	exonic	nonsynonymous SNV	METTL21D	NM_001040662:c.C188A;p.A63D	rs11157729	0.03	P60
chr14	49654998	49654998	C	T	exonic	synonymous SNV	SOS2	NM_006939:c.G3813A;p.P1271P	rs2227276		P60
chr14	90483547	90483547	G	A	exonic	synonymous SNV	RPS6KA5	NM_004755:c.C495T;p.L165L	rs56369401		P60
chr15	26096204	26096204	C	T	exonic	synonymous SNV	HERC2	NM_004667:c.G9210A;p.S3070S	rs61756153		P60
chr15	67126841	67126841	G	A	exonic	nonsynonymous SNV	NOX5	NM_001184779:c.G1643A;p.R548T	rs2277552		P60
chr16	4105355	4105355	G	C	exonic	synonymous SNV	ADCY9	NM_001116:c.C90G;p.V30V			P60
chr16	54077108	54077108	C	T	exonic	synonymous SNV	MMP2	NM_001127891:c.C600T;p.T200T	rs1053605		P60
chr16	54084614	54084614	G	A	exonic	synonymous SNV	MMP2	NM_001127891:c.G1230A;p.T410T	rs2287074		P60
chr17	7517852	7517852	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G415A;p.E139K		0	P60
chr17	10360615	10360615	G	A	exonic	stopgain SNV	MYH1	NM_005963:c.C70T;p.R24X		0.22	P60
chr17	71262771	71262771	G	A	exonic	synonymous SNV	ITGB4	NM_001005619:c.G4389A;p.P1463P			P60
chr17	75956371	75956371	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G12135A;p.P4045P	rs77506504		P60

chr18	6975631	6975631	C	T	exonic	synonymous SNV	LAMA1	NM_005559:c.G5391A:p.L1797L	rs617206	P60
chr18	8059868	8059868	C	T	exonic	synonymous SNV	PTPRM	NM_001105244:c.C1317T:p.N439M	rs2230601	P60
chr18	8369296	8369296	C	T	exonic	synonymous SNV	PTPRM	NM_002845:c.C3705T:p.I1235I	rs57391962	P60
chr19	7881586	7881586	C	T	exonic	synonymous SNV	MAP2K7	NM_145185:c.C573T:p.D191D	rs2303701	P60
chr19	16375682	16375682	G	A	exonic	synonymous SNV	EPS15L1	NM_021235:c.C1488T:p.D496D	rs76985523	P60
chr19	43640609	43640609	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C2004T:p.D668D	rs78835441	P60
chr19	47935058	47935058	A	G	exonic	synonymous SNV	PSG3	NM_021016:c.T88C:p.L30L	rs12185497	P60
chr19	61111075	61111075	T	C	exonic	nonsynonymous SNV	NLRP13	NM_176810:c.A2342G:p.N781S	rs17711239	0.09 P60
chr20	23369101	23369101	G	A	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.G197A:p.R66K	rs17757442	0.58 P60
chr20	23372638	23372638	C	T	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.C287T:p.T96M	rs3746737	0.01 P60
chr20	32809496	32809496	G	C	exonic	nonsynonymous SNV	NCOA6	NM_014071:c.C716G:p.P239R	rs117787172	0.04 P60
chr22	39883205	39883205	G	A	exonic	synonymous SNV	EP300	NM_001429:c.G3348A:p.Q1116Q	rs20554	P60
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SNV	USH2A	NM_007123:c.A4619G:p.D1540G		0.45 P2
chr2	1.7E+08	1.7E+08	C	T	exonic	synonymous SNV	LRP2	NM_004525:c.G8847A:p.S2949S		P2
chr2	1.9E+08	1.9E+08	C	T	exonic	nonsynonymous SNV	COL3A1	NM_000090:c.C578T:p.S193F		0 P2
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C1606T:p.R536X		0.02 P2
chr12	25269829	25269829	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G436A:p.A146T		0.01 P2
chr16	60409033	60409033	C	T	exonic	synonymous SNV	CDH8	NM_001796:c.G1128A:p.A376A		P2
chr18	46858786	46858786	A	G	exonic	nonsynonymous SNV	SMAD4	NM_005359:c.A1610G:p.D537G		0 P2
chrX	19308271	19308271	C	T	exonic	nonsynonymous SNV	MAP3K15	NM_001001671:c.G2477A:p.R826H		0 P2
chr4	1.57E+08	1.57E+08	G	A	exonic	synonymous SNV	GUCY1A3	NM_001130684:c.G687A:p.T229T		P10
chr5	1.12E+08	1.12E+08	A	T	exonic	stopgain SNV	APC	NM_001127511:c.A2923T:p.K975X		0 P10
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C4231T:p.Q1411X		0 P10
chr7	1.03E+08	1.03E+08	T	G	exonic	nonsynonymous SNV	RELN	NM_005045:c.A8093C:p.D2698A		0.24 P10
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 P10
chr17	7518263	7518263	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G347A:p.R116Q	rs11540652	0.02 P10
chr18	61680920	61680920	C	T	exonic	nonsynonymous SNV	CDH7	NM_004361:c.C1651T:p.R551W		0.01 P10
chrX	32572317	32572317	C	T	exonic	nonsynonymous SNV	DMD	NM_004007:c.G815A:p.R272Q		0.22 P10
chr5	1.12E+08	1.12E+08	G	A	exonic;splicing	synonymous SNV	APC	NM_001127511:c.G1494A:p.K498K		P19
chr17	7519280	7519280	C	T	splicing		TP53			P19
chr4	1.27E+08	1.27E+08	G	A	exonic	synonymous SNV	FAT4	NM_024582:c.G13830A:p.L4610L		P28
chr10	1.06E+08	1.06E+08	G	A	exonic	nonsynonymous SNV	COL17A1	NM_000494:c.C1642T:p.L548F		0 P28
chr12	22245981	22245981	G	A	exonic	synonymous SNV	ST8SIA1	NM_003034:c.C843T:p.S281S		P28
chr12	25289551	25289551	C	G	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35C:p.G12A		0.03 P28
chr19	43743846	43743846	G	A	exonic	nonsynonymous SNV	RYR1	NM_001042723:c.G12521A:p.R4174H		P28
chr20	44115150	44115150	C	T	exonic	nonsynonymous SNV	SLC12A5	NM_001134771:c.C2594T:p.P865L		0.05 P28
chr11	1.08E+08	1.08E+08	C	T	exonic	nonsynonymous SNV	ATM	NM_000051:c.C1009T:p.R337C		0 P69
chr3	1.44E+08	1.44E+08	T	A	splicing		ATR			P143
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SNV	SYNE1	NM_015293:c.G3736A:p.E1246K		0 P143
chr16	60612758	60612758	T	C	exonic	nonsynonymous SNV	CDH8	NM_001796:c.A51G:p.I17M		0.08 P143
chr17	7517845	7517845	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G422A:p.R141H	rs28934576	0.01 P143
chr19	48465359	48465359	C	A	splicing		PSG9			P143
chrX	31860216	31860216	C	A	exonic	stopgain SNV	DMD	NM_004011:c.G2641T:p.E881X		P143
chrX	1.14E+08	1.14E+08	G	T	exonic	nonsynonymous SNV	HTR2C	NM_000868:c.G1201T:p.V401F		0.07 P143
chr1	11090925	11090925	C	G	exonic	nonsynonymous SNV	MTOR	NM_004958:c.G7534C:p.D2512H		0 P144
chr1	2.14E+08	2.14E+08	T	A	exonic	nonsynonymous SNV	USH2A	NM_206933:c.A5277T:p.K1759N		0.42 P144
chr4	1.26E+08	1.26E+08	A	G	exonic	nonsynonymous SNV	FAT4	NM_024582:c.A3750G:p.I1250M		P144
chr5	1.12E+08	1.12E+08	T	A	exonic	stopgain SNV	APC	NM_001127511:c.T4074A:p.Y1358X		0.02 P144
chr5	1.38E+08	1.38E+08	T	C	exonic	nonsynonymous SNV	CTNNA1	NM_001903:c.T2536C:p.S846P		0.32 P144
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV	HDAC3	NM_003883:c.C36T:p.D12D		P144
chrX	1.14E+08	1.14E+08	G	A	exonic	nonsynonymous SNV	HTR2C	NM_000868:c.G856A:p.A286T		0.6 P144
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.G9595A:p.E3199K		0.32 P154
chr2	1.7E+08	1.7E+08	G	A	exonic	nonsynonymous SNV	LRP2	NM_004525:c.C9127T:p.R3043C		0 P154

chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G6423A:p.P2141P	rs113754336	P154
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3286T:p.R1096X		0 P154
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C4294T:p.R1432X		0.04 P154
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.G7767T:p.Q2589H		0.28 P154
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 P154
chr1	27814630	27814630	G	A	exonic	nonsynonymous SNV	FGR	NM_001042729:c.C920T:p.A307V		0 P158
chr1	1.57E+08	1.57E+08	G	A	exonic	synonymous SNV	SPTA1	NM_003126:c.C4500T:p.A1500A		P158
chr1	1.57E+08	1.57E+08	C	T	exonic	nonsynonymous SNV	SPTA1	NM_003126:c.G3527A:p.R1176Q		0.59 P158
chr1	1.84E+08	1.84E+08	C	T	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.C5065T:p.R1689C		0.03 P158
chr1	1.84E+08	1.84E+08	C	T	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.C8029T:p.P2677S		0.12 P158
chr1	2.14E+08	2.14E+08	G	A	exonic	synonymous SNV	USH2A	NM_206933:c.C14190T:p.T4730T		P158
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SNV	USH2A	NM_007123:c.A2354G:p.Y785C		0.01 P158
chr1	2.17E+08	2.17E+08	A	G	exonic;splicing	nonsynonymous SNV	TGFB2	NM_003238:c.A644G:p.D215G		0.21 P158
chr3	1.53E+08	1.53E+08	C	A	splicing		IGSF10			P158
chr3	1.85E+08	1.85E+08	G	A	exonic	nonsynonymous SNV	DVL3	NM_004423:c.G1904A:p.R635H		0.58 P158
chr4	24994017	24994017	T	C	exonic	nonsynonymous SNV	ANAPC4	NM_013367:c.T272C:p.V91A		0.04 P158
chr4	1.26E+08	1.26E+08	C	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.C341T:p.A114V		P158
chr5	1117359	1117359	G	A	exonic	nonsynonymous SNV	SLC12A7	NM_006598:c.C2446T:p.R816C		P158
chr5	1138415	1138415	G	A	exonic	synonymous SNV	SLC12A7	NM_006598:c.C849T:p.C283C		P158
chr5	24571076	24571076	G	A	exonic	nonsynonymous SNV	CDH10	NM_006727:c.C716T:p.A239V		0 P158
chr6	90717085	90717085	G	A	exonic	synonymous SNV	BACH2	NM_001170794:c.C1461T:p.A487A		P158
chr6	1.3E+08	1.3E+08	C	T	exonic;splicing	nonsynonymous SNV	LAMA2	NM_001079823:c.C8344T:p.R2782C		0.06 P158
chr6	1.46E+08	1.46E+08	G	A	exonic	synonymous SNV	GRM1	NM_000838:c.G99A:p.S33S		P158
chr6	1.47E+08	1.47E+08	A	G	exonic	nonsynonymous SNV	GRM1	NM_000838:c.A1378G:p.I460V		0.25 P158
chr6	1.47E+08	1.47E+08	C	T	exonic	nonsynonymous SNV	GRM1	NM_000838:c.C2363T:p.A788V		0.01 P158
chr6	1.47E+08	1.47E+08	G	A	exonic	nonsynonymous SNV	GRM1	NM_000838:c.G3554A:p.R1185Q		0.16 P158
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.G14874T:p.E4958D		0.26 P158
chr6	1.53E+08	1.53E+08	T	G	exonic	synonymous SNV	SYNE1	NM_033071:c.A1015C:p.R339R		P158
chr6	1.66E+08	1.66E+08	C	A	exonic	nonsynonymous SNV	PDE10A	NM_001130690:c.G2285T:p.W762L		0 P158
chr7	91544257	91544257	G	T	exonic;splicing	nonsynonymous SNV	AKAP9	NM_005751:c.G6765T:p.K2255N		0.01 P158
chr7	1.52E+08	1.52E+08	G	A	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C707T:p.A236V		1 P158
chr9	1.37E+08	1.37E+08	G	A	exonic;splicing	synonymous SNV	COL5A1	NM_000093:c.G2286A:p.P762P		P158
chr9	1.37E+08	1.37E+08	C	A	exonic	nonsynonymous SNV	COL5A1	NM_000093:c.C2608A:p.P870T		0.05 P158
chr10	55252086	55252086	C	T	exonic	synonymous SNV	PCDH15	NM_001142767:c.G5286A:p.T1762T		P158
chr11	66959137	66959137	C	T	exonic	nonsynonymous SNV	RPS6KB2	NM_003952:c.C1370T:p.S457L	rs1052688	P158
chr13	66698012	66698012	G	T	exonic	synonymous SNV	PCDH9	NM_020403:c.C2562A:p.A854A		P158
chr16	63542192	63542192	C	T	exonic	nonsynonymous SNV	CDH11	NM_001797:c.G1873A:p.A625T		0.27 P158
chr17	3613969	3613969	G	A	exonic	nonsynonymous SNV	ITGAE	NM_002208:c.C190T:p.P64S		0.54 P158
chr17	10287536	10287536	G	A	exonic	nonsynonymous SNV	MYH4	NM_017533:c.C5701T:p.R1901C		0 P158
chr17	26678656	26678656	C	T	exonic	nonsynonymous SNV	NF1	NM_000267:c.C5219T:p.A1740V		0.22 P158
chr19	4052123	4052123	A	G	exonic	nonsynonymous SNV	MAP2K2	NM_030662:c.T599C:p.I200T		0 P158
chr20	32801227	32801227	T	C	exonic	nonsynonymous SNV	NCOA6	NM_014071:c.A2432G:p.D811G		0 P158
chr22	39877943	39877943	A	G	exonic	nonsynonymous SNV	EP300	NM_001429:c.A2978G:p.Q993R		0.39 P158
chrX	32215705	32215705	C	T	exonic	nonsynonymous SNV	DMD	NM_004011:c.G2129A:p.R710Q		0.64 P158
chrX	32382763	32382763	A	T	exonic	stopgain SNV	DMD	NM_004007:c.T3171A:p.Y1057X		P158
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4066T:p.E1356X		0.03 P159
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SNV	PCDHA10	NM_018901:c.C1532T:p.A511V		0.02 P159
chr13	23973970	23973970	G	C	exonic	nonsynonymous SNV	PARP4	NM_006437:c.C135G:p.C45W		0.01 P159
chr17	3595807	3595807	C	A	exonic;splicing	nonsynonymous SNV	ITGAE	NM_002208:c.G2319T:p.E773D		0.05 P159
chr2	2.38E+08	2.38E+08	A	G	exonic	nonsynonymous SNV	COL6A3	NM_057165:c.T629C:p.L210P		P155
chr4	1.26E+08	1.26E+08	C	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.C3505T:p.R1169W		P155
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3121T:p.E1041X		0 P155
chr11	1.34E+08	1.34E+08	C	T	exonic	synonymous SNV	GLB1L2	NM_138342:c.C1056T:p.G352G		P155

chr17	7519204	7519204	G	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.C55T;p.P19S	rs28934874	0.01	P155
chr2	1.16E+08	1.16E+08	C	G	exonic	synonymous SNV	DPP10	NM_001004360:c.C1083G;p.L361L			P156
chr3	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	IGSF10	NM_001178145:c.C632T;p.S211F		0.02	P156
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G9283A;p.A3095T		0.06	P156
chr10	55496542	55496542	G	C	exonic	nonsynonymous SN\	PCDH15	NM_001142765:c.C1988G;p.A663G		0.2	P156
chr17	7518264	7518264	G	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.C346T;p.R116W		0	P156
chr17	10336495	10336495	C	A	exonic	nonsynonymous SN\	MYH1	NM_005963:c.G5783T;p.S1928I		0	P156
chrX	1.14E+08	1.14E+08	G	A	exonic	synonymous SNV	HTR2C	NM_000868:c.G447A;p.S149S			P156
chrX	1.52E+08	1.52E+08	G	A	exonic	nonsynonymous SN\	ATP2B3	NM_001001344:c.G1739A;p.R580H		0	P156
chr3	13891563	13891563	G	A	exonic	synonymous SNV	WNT7A	NM_004625:c.C180T;p.I60I			P27
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHB1	NM_013340:c.C827T;p.A276V		0.05	P27
chr11	1.08E+08	1.08E+08	G	A	splicing		ATM				P27
chr12	25269914	25269914	T	A	exonic	nonsynonymous SN\	KRAS	NM_004985:c.A351T;p.K117N		0	P27
chr17	7519182	7519182	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G77A;p.R26H		0	P27
chr20	2725881	2725881	G	A	exonic	synonymous SNV	CPXM1	NM_001184699:c.C789T;p.G263G			P27
chr2	1.9E+08	1.9E+08	G	A	exonic	nonsynonymous SN\	COL3A1	NM_000090:c.G713A;p.R238Q		0.11	P26
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C793T;p.R265X		0	P26
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4066T;p.E1356X		0.03	P26
chr17	7519138	7519138	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G121A;p.V41M		0	P26
chr17	75933756	75933756	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G7173A;p.K2391K			P26
chr3	41243770	41243770	A	C	exonic	nonsynonymous SN\	CTNNB1	NM_001098209:c.A1004C;p.K335T		0	P23
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA4	NM_018907:c.C1301T;p.S434L		0.02	P23
chr12	5996028	5996028	G	A	exonic	synonymous SNV	VWF	NM_000552:c.C5226T;p.D1742D			P23
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A;p.G12D		0	P23
chr19	48067966	48067966	T	A	exonic	nonsynonymous SN\	PSG1	NM_001184825:c.A502T;p.T168S		0.32	P23
chr4	54831583	54831583	G	A	exonic	nonsynonymous SN\	PDGFRA	NM_006206:c.G1148A;p.R383H		0	P22
chr5	1.12E+08	1.12E+08	A	T	exonic	stopgain SNV	APC	NM_001127511:c.A4102T;p.R1368X		0	P22
chr6	1.53E+08	1.53E+08	C	T	exonic;splicing	nonsynonymous SN\	SYNE1	NM_033071:c.G7733A;p.R2578K		0.06	P22
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C4442T;p.T1481I		0.07	P22
chr17	7518263	7518263	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G347A;p.R116Q	rs11540652	0.02	P22
chr1	1.57E+08	1.57E+08	G	T	exonic	nonsynonymous SN\	SPTA1	NM_003126:c.C1814A;p.A605E		0	P21
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G14012T;p.S4671I		0.15	P21
chr5	1.12E+08	1.12E+08	C	G	exonic	nonsynonymous SN\	APC	NM_001127511:c.C2180G;p.P727R		0.01	P21
chr10	75344590	75344590	A	G	exonic	nonsynonymous SN\	PLAU	NM_001145031:c.A829G;p.T277A		0.29	P21
chr11	1.06E+08	1.06E+08	G	T	exonic	nonsynonymous SN\	GUCY1A2	NM_000855:c.C1645A;p.L549M		0	P21
chr12	25289552	25289552	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G34A;p.G12S		0	P21
chr13	66699958	66699958	C	A	exonic	nonsynonymous SN\	PCDH9	NM_020403:c.G616T;p.V206F		0	P21
chr17	7518263	7518263	C	A	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G347T;p.R116L		0	P21
chr1	1.58E+08	1.58E+08	G	A	exonic	nonsynonymous SN\	ATP1A2	NM_000702:c.G3005A;p.R1002Q		0	P20
chr1	2.15E+08	2.15E+08	A	G	exonic	nonsynonymous SN\	USH2A	NM_007123:c.T1439C;p.V480A		0.39	P20
chr2	2.12E+08	2.12E+08	G	A	exonic	stopgain SNV	ERBB4	NM_001042599:c.C1555T;p.Q519X		0.05	P20
chr5	1.12E+08	1.12E+08	C	A	exonic	stopgain SNV	APC	NM_001127511:c.C2535A;p.Y845X		0	P20
chr10	55251889	55251889	G	A	exonic	nonsynonymous SN\	PCDH15	NM_001142767:c.C5483T;p.T1828M		0	P20
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A;p.G12D		0	P20
chr15	65244323	65244323	G	C	exonic	nonsynonymous SN\	SMAD3	NM_001145103:c.G111C;p.K37N		0	P20
chr17	7518988	7518988	G	A	exonic	stopgain SNV	TP53	NM_001126115:c.C190T;p.R64X		0	P20
chrX	1.54E+08	1.54E+08	G	A	exonic	nonsynonymous SN\	F8	NM_000132:c.C2951T;p.S984L		1	P20
chr3	41241128	41241128	A	G	exonic	nonsynonymous SN\	CTNNB1	NM_001098209:c.A121G;p.T41A		0.01	P25
chr7	81169936	81169936	C	T	exonic	nonsynonymous SN\	HGF	NM_000601:c.G2084A;p.R695H		0	P25
chr9	21295096	21295096	T	A	exonic	stopgain SNV	IFNA5	NM_002169:c.A160T;p.K54X			P25
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C2676T;p.G892G			P25
chr12	25289548	25289548	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G38A;p.G13D	rs112445441	0	P25
chr17	7514707	7514707	C	A	exonic	stopgain SNV	TP53	NM_001126115:c.G649T;p.E217X		0	P25

chr17	51585878	51585878	G	A	exonic	synonymous SNV	ANKFN1	NM_153228:c.G9A:p.A3A		P25
chr10	1.34E+08	1.34E+08	G	C	exonic	synonymous SNV	LRRC27	NM_001143758:c.G1113C:p.L371L		P24
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV	APC	NM_000038:c.C646T:p.R216X	rs62619935	0.19 P95
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_000038:c.C694T:p.R232X		0.29 P95
chr7	37278008	37278008	C	T	exonic	nonsynonymous SNV	ELMO1	NM_014800:c.G197A:p.R66H		0 P95
chr10	28189602	28189602	G	A	exonic	synonymous SNV	ARMC4	NM_018076:c.C2979T:p.D993D	rs74555138	P95
chr10	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	CTBP2	NM_022802:c.C1814T:p.T605M	rs3198932	0 P95
chr11	1.08E+08	1.08E+08	C	T	exonic	stopgain SNV	ATM	NM_000051:c.C8977T:p.R2993X		0.02 P95
chr15	26109928	26109928	C	T	exonic	nonsynonymous SNV	HERC2	NM_004667:c.G8509A:p.V2837I		0.16 P95
chr20	44115667	44115667	T	C	exonic	nonsynonymous SNV	SLC12A5	NM_001134771:c.T2660C:p.M887T		0.02 P95
chr22	21767884	21767884	T	G	exonic	nonsynonymous SNV	GNAZ	NM_002073:c.T2G:p.M1R		0 P95
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C667T:p.R223X		0 P86
chr12	25289551	25289551	C	A	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35T:p.G12V		0 P86
chr19	43668135	43668135	G	A	exonic	nonsynonymous SNV	RYR1	NM_000540:c.G5000A:p.R1667H		0.05 P86
chr19	43743771	43743771	C	T	exonic	nonsynonymous SNV	RYR1	NM_001042723:c.C12446T:p.P4149L		P86
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C667T:p.R223X		0 P58
chr12	25271543	25271543	T	A	exonic	nonsynonymous SNV	KRAS	NM_004985:c.A182T:p.Q61L		0 P58
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C2259T:p.T753T		P58
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 P94
chr17	7518993	7518993	A	G	exonic	nonsynonymous SNV	TP53	NM_001126115:c.T185C:p.L62P		0 P94
chr17	7518988	7518988	G	A	exonic	stopgain SNV	TP53	NM_001126115:c.C190T:p.R64X		0 P145
chr2	2.38E+08	2.38E+08	G	A	exonic	synonymous SNV	COL6A3	NM_057166:c.C4818T:p.G1606G		P105
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C529T:p.R177W		0 P105
chr11	1.08E+08	1.08E+08	G	T	exonic	stopgain SNV	ATM	NM_000051:c.G7708T:p.E2570X		0.29 P105
chr17	7520038	7520038	G	A	exonic;splicing	nonsynonymous SNV	TP53	NM_000546:c.C374T:p.T125M		0 P105
chr19	43648743	43648743	C	T	exonic	nonsynonymous SNV	RYR1	NM_000540:c.C3043T:p.R1015C		0 P105
chr1	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	FLG	NM_002016:c.C3661T:p.R1221C		0.01 P106
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3862T:p.E1288X		0.1 P106
chr12	25269829	25269829	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G436A:p.A146T		0.01 P106
chr12	25289548	25289548	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G38A:p.G13D	rs112445441	0 P106
chr12	1.29E+08	1.29E+08	C	T	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.G481A:p.A161T		0.04 P106
chr18	46858786	46858786	A	G	exonic	nonsynonymous SNV	SMAD4	NM_005359:c.A1610G:p.D537G		0 P106
chr1	2.14E+08	2.14E+08	C	A	exonic	stopgain SNV	USH2A	NM_007123:c.G1975T:p.G659X		0.02 P103
chr1	2.14E+08	2.14E+08	A	T	exonic	synonymous SNV	USH2A	NM_007123:c.T1974A:p.I658I		P103
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SNV	PCDHA11	NM_018902:c.C1852T:p.R618C		P103
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SNV	PCDHB7	NM_018940:c.G1330A:p.V444I		0.82 P103
chr6	1.53E+08	1.53E+08	G	T	exonic	synonymous SNV	SYNE1	NM_133650:c.C2001A:p.I667I		P103
chr7	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C10898T:p.P3633L		1 P103
chr11	1.06E+08	1.06E+08	G	A	exonic	nonsynonymous SNV	GUCY1A2	NM_000855:c.C1829T:p.P610L		0.05 P103
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 P103
chr15	26110871	26110871	C	T	exonic	nonsynonymous SNV	HERC2	NM_004667:c.G8282A:p.G2761D		0.23 P103
chr2	1.16E+08	1.16E+08	G	T	exonic	nonsynonymous SNV	DPP10	NM_001004360:c.G1566T:p.K522N		0.03 P104
chr5	24573393	24573393	G	C	exonic	nonsynonymous SNV	CDH10	NM_006727:c.C379G:p.L127V		0 P104
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C850T:p.R284X		0.01 P104
chr5	1.12E+08	1.12E+08	C	G	exonic	stopgain SNV	APC	NM_001127511:c.C4013G:p.S1338X		0.72 P104
chr12	25289552	25289552	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G34A:p.G12S		0 P104
chr16	3956800	3956800	T	A	exonic	nonsynonymous SNV	ADCY9	NM_001116:c.A3039T:p.E1013D		0.24 P104
chr16	60409138	60409138	C	T	splicing		CDH8			P104
chr17	7517849	7517849	C	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G418T:p.V140L		0.01 P104
chr5	24545564	24545564	A	G	exonic	nonsynonymous SNV	CDH10	NM_006727:c.T1124C:p.I375T		0.01 P101
chr5	82886591	82886591	G	A	exonic	nonsynonymous SNV	VCAN	NM_001126336:c.G1490A:p.R497H		0 P101
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV	APC	NM_000038:c.C646T:p.R216X	rs62619935	0.19 P101
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SNV	SYNE1	NM_015293:c.G4264A:p.V1422I		0.14 P101

chr7	1.51E+08	1.51E+08	T	C	exonic	nonsynonymous SN\ MLL3	NM_170606:c.A13495G;p.K4499E	0	P101	
chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C421T;p.R141C	0	P101	
chr5	82872159	82872159	C	T	exonic	synonymous SNV VCAN	NM_001164097:c.C4620T;p.F1540F		P102	
chr10	97182215	97182215	C	T	exonic	nonsynonymous SN\ SORBS1	NM_001034957:c.G185A;p.R62Q	0.02	P102	
chr17	7517845	7517845	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G422A;p.R141H	rs28934576	0.01	P102
chr6	1.53E+08	1.53E+08	A	G	exonic	nonsynonymous SN\ SYNE1	NM_033071:c.T14899C;p.F4967L		1	P99
chr7	93872468	93872468	C	T	exonic	stopgain SNV COL1A2	NM_000089:c.C454T;p.R152X		0.03	P99
chr1	45041393	45041393	G	A	exonic	nonsynonymous SN\ PLK3	NM_004073:c.G929A;p.R310H		0.1	P100
chr1	51646490	51646490	C	A	exonic	stopgain SNV EPS15	NM_001159969:c.G436T;p.E146X		0.01	P100
chr1	70064038	70064038	A	G	exonic	synonymous SNV LRRC7	NM_020794:c.A327G;p.E109E			P100
chr1	70224589	70224589	C	A	exonic	nonsynonymous SN\ LRRC7	NM_020794:c.C749A;p.S250Y		0.01	P100
chr1	70266563	70266563	C	A	exonic	nonsynonymous SN\ LRRC7	NM_020794:c.C1802A;p.P601Q		0	P100
chr1	70276613	70276613	A	G	exonic	nonsynonymous SN\ LRRC7	NM_020794:c.A2404G;p.T802A		0	P100
chr1	70277473	70277473	T	G	exonic	nonsynonymous SN\ LRRC7	NM_020794:c.T3264G;p.F1088L		0.36	P100
chr1	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SN\ FLG	NM_002016:c.C8567T;p.S2856L		0	P100
chr1	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SN\ FLG	NM_002016:c.G2968A;p.E990K		0.02	P100
chr1	1.57E+08	1.57E+08	C	A	exonic;splicing	nonsynonymous SN\ SPTA1	NM_003126:c.G6602T;p.R2201I		0.07	P100
chr1	1.57E+08	1.57E+08	C	A	exonic	nonsynonymous SN\ SPTA1	NM_003126:c.G5650T;p.D1884Y		0.02	P100
chr1	1.57E+08	1.57E+08	C	T	exonic	nonsynonymous SN\ SPTA1	NM_003126:c.G1267A;p.D423N		0.22	P100
chr1	1.57E+08	1.57E+08	T	G	exonic	nonsynonymous SN\ SPTA1	NM_003126:c.A1092C;p.E364D		0.6	P100
chr1	1.57E+08	1.57E+08	C	A	exonic	nonsynonymous SN\ SPTA1	NM_003126:c.G963T;p.K321N		0.52	P100
chr1	1.58E+08	1.58E+08	G	A	exonic	nonsynonymous SN\ ATP1A2	NM_000702:c.G2288A;p.R763H		0	P100
chr1	1.58E+08	1.58E+08	G	T	exonic	nonsynonymous SN\ ATP1A4	NM_144699:c.G830T;p.R277I		0	P100
chr1	1.58E+08	1.58E+08	C	T	exonic	nonsynonymous SN\ ATP1A4	NM_144699:c.C1837T;p.R613C		0	P100
chr1	1.84E+08	1.84E+08	G	T	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G1055T;p.G352V		0	P100
chr1	1.84E+08	1.84E+08	C	A	exonic	synonymous SNV HMCN1	NM_031935:c.C1887A;p.V629V			P100
chr1	1.84E+08	1.84E+08	G	T	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G2076T;p.Q692H		0.09	P100
chr1	1.84E+08	1.84E+08	G	T	exonic	stopgain SNV HMCN1	NM_031935:c.G4042T;p.E1348X		0.69	P100
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G4436A;p.G1479D		0.04	P100
chr1	1.84E+08	1.84E+08	G	T	exonic	stopgain SNV HMCN1	NM_031935:c.G5071T;p.E1691X		0.49	P100
chr1	1.84E+08	1.84E+08	T	C	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.T5744C;p.V1915A		0	P100
chr1	1.84E+08	1.84E+08	G	T	exonic	stopgain SNV HMCN1	NM_031935:c.G10495T;p.E3499X		0.33	P100
chr1	1.84E+08	1.84E+08	A	G	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.A11609G;p.D3870G		0.19	P100
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G11933A;p.R3978Q		0.35	P100
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G12371A;p.R4124H		0.12	P100
chr1	1.84E+08	1.84E+08	C	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.C13780A;p.L4594I		0.28	P100
chr1	1.84E+08	1.84E+08	T	G	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.T16039G;p.L5347V			P100
chr1	1.84E+08	1.84E+08	C	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.C16180A;p.L5394I			P100
chr1	1.84E+08	1.84E+08	C	T	exonic	synonymous SNV HMCN1	NM_031935:c.C16467T;p.C5489C			P100
chr1	2.08E+08	2.08E+08	G	T	exonic	nonsynonymous SN\ HSD11B1	NM_005525:c.G655T;p.D219Y		0	P100
chr1	2.14E+08	2.14E+08	C	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.G15374A;p.R5125H		0.2	P100
chr1	2.14E+08	2.14E+08	G	A	exonic	stopgain SNV USH2A	NM_206933:c.C13576T;p.R4526X		0.56	P100
chr1	2.14E+08	2.14E+08	G	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C13257A;p.F4419L		0.22	P100
chr1	2.14E+08	2.14E+08	C	A	exonic	stopgain SNV USH2A	NM_206933:c.G12865T;p.E4289X		0.8	P100
chr1	2.14E+08	2.14E+08	G	A	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C12343T;p.R4115C	rs111033275	0.01	P100
chr1	2.14E+08	2.14E+08	A	G	exonic	nonsynonymous SN\ USH2A	NM_206933:c.T11693C;p.I3898T		0.73	P100
chr1	2.14E+08	2.14E+08	G	T	exonic	synonymous SNV USH2A	NM_206933:c.C11325A;p.I3775I			P100
chr1	2.14E+08	2.14E+08	C	T	exonic	synonymous SNV USH2A	NM_206933:c.G11196A;p.Q3732Q			P100
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SN\ USH2A	NM_206933:c.A10546G;p.T3516A		0.45	P100
chr1	2.14E+08	2.14E+08	G	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C10354A;p.H3452N		0.21	P100
chr1	2.14E+08	2.14E+08	C	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.G9542A;p.G3181E		0	P100
chr1	2.14E+08	2.14E+08	G	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C9533A;p.S3178Y		0.03	P100
chr1	2.14E+08	2.14E+08	G	A	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C8798T;p.A2933V		0.37	P100

chr1	2.14E+08	2.14E+08	A	G	exonic	nonsynonymous SN\	USH2A	NM_206933:c.T5584C;p.C1862R	0	P100
chr1	2.14E+08	2.14E+08	C	A	exonic	stopgain SNV	USH2A	NM_007123:c.G3862T;p.E1288X	0.59	P100
chr1	2.15E+08	2.15E+08	C	A	exonic	nonsynonymous SN\	USH2A	NM_007123:c.G992T;p.R331I	0.24	P100
chr1	2.15E+08	2.15E+08	C	A	exonic	nonsynonymous SN\	USH2A	NM_007123:c.G627T;p.K209N	0.66	P100
chr1	2.46E+08	2.46E+08	G	A	exonic	nonsynonymous SN\	OR2M5	NM_001004690:c.G263A;p.G88D	0.01	P100
chr1	2.46E+08	2.46E+08	G	A	exonic	nonsynonymous SN\	OR2M5	NM_001004690:c.G659A;p.R220Q	0.33	P100
chr1	2.46E+08	2.46E+08	C	T	exonic	synonymous SNV	OR2M2	NM_001004688:c.C978T;p.F326F		P100
chr2	15236657	15236657	T	C	exonic	nonsynonymous SN\	NBAS	NM_015909:c.A6746G;p.Q2249R	0.23	P100
chr2	15524920	15524920	C	T	exonic	nonsynonymous SN\	NBAS	NM_015909:c.G2081A;p.R694Q	0.04	P100
chr2	15616168	15616168	C	T	exonic	synonymous SNV	NBAS	NM_015909:c.G159A;p.T53T		P100
chr2	1.16E+08	1.16E+08	G	T	exonic	nonsynonymous SN\	DPP10	NM_001004360:c.G2014T;p.D672Y	0	P100
chr2	1.7E+08	1.7E+08	G	T	exonic	nonsynonymous SN\	LRP2	NM_004525:c.C13942A;p.L4648I	0	P100
chr2	1.7E+08	1.7E+08	G	T	exonic	synonymous SNV	LRP2	NM_004525:c.C12960A;p.I4320I		P100
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C11451T;p.C3817C		P100
chr2	1.7E+08	1.7E+08	T	G	exonic	nonsynonymous SN\	LRP2	NM_004525:c.A7311C;p.Q2437H	0	P100
chr2	1.7E+08	1.7E+08	G	T	exonic	nonsynonymous SN\	LRP2	NM_004525:c.C6188A;p.S2063Y	0.01	P100
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C5376T;p.I1792I		P100
chr2	1.7E+08	1.7E+08	G	T	exonic	nonsynonymous SN\	LRP2	NM_004525:c.C4189A;p.L1397I	0.31	P100
chr2	1.7E+08	1.7E+08	G	T	exonic	nonsynonymous SN\	LRP2	NM_004525:c.C2939A;p.P980H	0.15	P100
chr2	1.7E+08	1.7E+08	C	A	exonic	nonsynonymous SN\	LRP2	NM_004525:c.G2191T;p.D731Y	0	P100
chr2	1.7E+08	1.7E+08	G	T	exonic	nonsynonymous SN\	LRP2	NM_004525:c.C1690A;p.L564M	0.02	P100
chr2	1.7E+08	1.7E+08	G	T	exonic	synonymous SNV	LRP2	NM_004525:c.C1443A;p.I481I		P100
chr2	1.7E+08	1.7E+08	G	A	exonic;splicing	synonymous SNV	LRP2	NM_004525:c.C186T;p.C62C		P100
chr2	1.9E+08	1.9E+08	C	T	exonic	nonsynonymous SN\	COL3A1	NM_000090:c.C1864T;p.P622S	0.06	P100
chr2	1.9E+08	1.9E+08	G	A	exonic	nonsynonymous SN\	COL3A1	NM_000090:c.G2633A;p.R878H	0	P100
chr2	2.02E+08	2.02E+08	C	A	exonic	synonymous SNV	CASP8	NM_001080125:c.C561A;p.I187I		P100
chr2	2.12E+08	2.12E+08	C	T	exonic	nonsynonymous SN\	ERBB4	NM_001042599:c.G3382A;p.E1128K	0.43	P100
chr2	2.12E+08	2.12E+08	G	A	exonic	nonsynonymous SN\	ERBB4	NM_001042599:c.C3167T;p.A1056V	0.38	P100
chr2	2.12E+08	2.12E+08	A	G	exonic	synonymous SNV	ERBB4	NM_001042599:c.T2763C;p.Y921Y		P100
chr2	2.12E+08	2.12E+08	G	A	exonic	nonsynonymous SN\	ERBB4	NM_001042599:c.C1834T;p.R612W	0.03	P100
chr2	2.13E+08	2.13E+08	G	A	exonic	nonsynonymous SN\	ERBB4	NM_001042599:c.C283T;p.R95C	0.02	P100
chr2	2.38E+08	2.38E+08	C	A	exonic	nonsynonymous SN\	COL6A3	NM_057166:c.G6670T;p.D2224Y		P100
chr2	2.38E+08	2.38E+08	C	A	exonic	stopgain SNV	COL6A3	NM_057166:c.G4501T;p.E1501X		P100
chr2	2.38E+08	2.38E+08	C	A	exonic	nonsynonymous SN\	COL6A3	NM_057166:c.G2561T;p.R854M		P100
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SN\	COL6A3	NM_057166:c.G1726A;p.D576N		P100
chr3	41254525	41254525	A	G	exonic	synonymous SNV	CTNNB1	NM_001098209:c.A2091G;p.G697G		P100
chr3	58099185	58099185	G	T	exonic	nonsynonymous SN\	FLNB	NM_001164318:c.G4998T;p.E1666D	0.01	P100
chr3	58115643	58115643	C	T	exonic	synonymous SNV	FLNB	NM_001164319:c.C6648T;p.F2216F		P100
chr3	1.25E+08	1.25E+08	G	A	exonic	synonymous SNV	MYLK	NM_053026:c.C4788T;p.N1596N		P100
chr3	1.25E+08	1.25E+08	G	A	exonic	synonymous SNV	MYLK	NM_053026:c.C4713T;p.Y1571Y		P100
chr3	1.42E+08	1.42E+08	G	A	exonic	nonsynonymous SN\	CLSTN2	NM_022131:c.G628A;p.D210N	0.03	P100
chr3	1.44E+08	1.44E+08	C	T	exonic	synonymous SNV	ATR	NM_0011184:c.G7725A;p.A2575A		P100
chr3	1.44E+08	1.44E+08	T	G	exonic	nonsynonymous SN\	ATR	NM_0011184:c.A7553C;p.N2518T	0.06	P100
chr3	1.44E+08	1.44E+08	G	T	exonic	nonsynonymous SN\	ATR	NM_0011184:c.C6542A;p.A2181D	0.01	P100
chr3	1.44E+08	1.44E+08	C	T	exonic	nonsynonymous SN\	ATR	NM_0011184:c.G6266A;p.R2089Q	0.02	P100
chr3	1.44E+08	1.44E+08	C	A	exonic	nonsynonymous SN\	ATR	NM_0011184:c.G6053T;p.S2018I	0.06	P100
chr3	1.44E+08	1.44E+08	G	A	exonic	nonsynonymous SN\	ATR	NM_0011184:c.C4051T;p.R1351W	0	P100
chr3	1.44E+08	1.44E+08	C	A	exonic	nonsynonymous SN\	ATR	NM_0011184:c.G463T;p.D155Y	0.02	P100
chr3	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	IGSF10	NM_001178145:c.G1807T;p.E603X		P100
chr3	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	IGSF10	NM_001178145:c.G1423T;p.E475X		P100
chr3	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G5844T;p.Q1948H	0.1	P100
chr3	1.53E+08	1.53E+08	A	C	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.T5449G;p.F1817V	0.41	P100
chr3	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV	IGSF10	NM_178822:c.G5238A;p.R1746R		P100

chr3	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G5173A:p.A1725T	0.01	P100
chr3	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G4683T:p.Q1561H	0	P100
chr3	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G4301A:p.S1434N	0	P100
chr3	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G4168T:p.V1390F	0	P100
chr3	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.C3199A:p.L1067I	0	P100
chr3	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV	IGSF10	NM_178822:c.G3015A:p.P1005P		P100
chr3	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	IGSF10	NM_178822:c.G1708T:p.E570X	0.25	P100
chr3	1.85E+08	1.85E+08	C	A	exonic	nonsynonymous SN\	DVL3	NM_004423:c.C410A:p.S137Y	0.01	P100
chr4	54833434	54833434	G	T	exonic	nonsynonymous SN\	PDGFRA	NM_006206:c.G1354T:p.D452Y	0.03	P100
chr4	54835886	54835886	G	T	exonic	nonsynonymous SN\	PDGFRA	NM_006206:c.G1775T:p.G592V	0.11	P100
chr4	54846866	54846866	G	A	exonic	synonymous SNV	PDGFRA	NM_006206:c.G2541A:p.S847S		P100
chr4	54850038	54850038	G	A	exonic;splicing	synonymous SNV	PDGFRA	NM_006206:c.G2880A:p.K960K		P100
chr4	82275422	82275422	C	T	exonic	nonsynonymous SN\	PRKG2	NM_006259:c.G1687A:p.A563T	0.01	P100
chr4	82277640	82277640	T	C	exonic	nonsynonymous SN\	PRKG2	NM_006259:c.A1565G:p.D522G	0	P100
chr4	82315039	82315039	C	A	exonic	nonsynonymous SN\	PRKG2	NM_006259:c.G560T:p.R187I	0.11	P100
chr4	82344772	82344772	C	A	exonic	nonsynonymous SN\	PRKG2	NM_006259:c.G454T:p.D152Y	0.02	P100
chr4	1.26E+08	1.26E+08	C	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.C862T:p.R288C		P100
chr4	1.26E+08	1.26E+08	G	T	exonic	stopgain SNV	FAT4	NM_024582:c.G2260T:p.E754X		P100
chr4	1.26E+08	1.26E+08	A	G	exonic	synonymous SNV	FAT4	NM_024582:c.A3717G:p.E1239E		P100
chr4	1.26E+08	1.26E+08	A	G	exonic	nonsynonymous SN\	FAT4	NM_024582:c.A3832G:p.T1278A		P100
chr4	1.26E+08	1.26E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G5159T:p.R1720I		P100
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.C5597T:p.T1866M	0.06	P100
chr4	1.27E+08	1.27E+08	T	G	exonic	nonsynonymous SN\	FAT4	NM_024582:c.T6858G:p.D2286E	0	P100
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G7893T:p.K2631N	0.39	P100
chr4	1.27E+08	1.27E+08	C	T	exonic	synonymous SNV	FAT4	NM_024582:c.C8409T:p.I2803I		P100
chr4	1.27E+08	1.27E+08	C	A	exonic	nonsynonymous SN\	FAT4	NM_024582:c.C9422A:p.S3141Y	0.03	P100
chr4	1.27E+08	1.27E+08	C	A	exonic	synonymous SNV	FAT4	NM_024582:c.C9921A:p.I3307I		P100
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G10504T:p.D3502Y	0	P100
chr4	1.27E+08	1.27E+08	T	G	exonic	nonsynonymous SN\	FAT4	NM_024582:c.T10764G:p.D3588E	0	P100
chr4	1.27E+08	1.27E+08	C	A	exonic	nonsynonymous SN\	FAT4	NM_024582:c.C11452A:p.L3818I	0.08	P100
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G11476A:p.V3826I	0.26	P100
chr4	1.27E+08	1.27E+08	A	G	exonic	synonymous SNV	FAT4	NM_024582:c.A14358G:p.G4786G		P100
chr4	1.55E+08	1.55E+08	G	T	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.C8287A:p.L2763I	0.4	P100
chr4	1.55E+08	1.55E+08	G	A	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.C7028T:p.A2343V	0.58	P100
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C7015T:p.L2339L		P100
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C6447T:p.F2149F		P100
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C6088T:p.L2030L		P100
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C5947T:p.L1983L		P100
chr4	1.55E+08	1.55E+08	C	A	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.G5035T:p.D1679Y	0.16	P100
chr4	1.55E+08	1.55E+08	C	A	exonic	stopgain SNV	DCHS2	NM_017639:c.G4909T:p.E1637X	0.71	P100
chr4	1.55E+08	1.55E+08	C	A	exonic	stopgain SNV	DCHS2	NM_017639:c.G4465T:p.E1489X	0	P100
chr4	1.55E+08	1.55E+08	C	T	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.G3010A:p.G1004R	0	P100
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	DCHS2	NM_001142552:c.C2580T:p.A860A		P100
chr4	1.55E+08	1.55E+08	T	C	exonic	nonsynonymous SN\	DCHS2	NM_001142552:c.A2491G:p.T831A	0.12	P100
chr4	1.57E+08	1.57E+08	C	A	exonic	nonsynonymous SN\	GUCY1A3	NM_001130684:c.C571A:p.L191I	0.18	P100
chr4	1.57E+08	1.57E+08	G	T	exonic	nonsynonymous SN\	GUCY1A3	NM_001130684:c.G1347T:p.K449N	0	P100
chr5	7467742	7467742	C	A	exonic	nonsynonymous SN\	ADCY2	NM_020546:c.C267A:p.F89L		P100
chr5	7743856	7743856	C	T	exonic	nonsynonymous SN\	ADCY2	NM_020546:c.C773T:p.A258V	0.01	P100
chr5	7855464	7855464	C	G	exonic	nonsynonymous SN\	ADCY2	NM_020546:c.C2762G:p.A921G	0.02	P100
chr5	7870075	7870075	G	A	exonic	nonsynonymous SN\	ADCY2	NM_020546:c.G2980A:p.D994N	1	P100
chr5	24541040	24541040	G	A	exonic	nonsynonymous SN\	CDH10	NM_006727:c.C1331T:p.S444L	0.29	P100
chr5	24573324	24573324	T	G	exonic	nonsynonymous SN\	CDH10	NM_006727:c.A448C:p.I150L	0.13	P100
chr5	24573425	24573425	C	T	exonic	nonsynonymous SN\	CDH10	NM_006727:c.G347A:p.R116Q	0.08	P100

chr5	26917219	26917219	C	T	exonic	nonsynonymous SN\	CDH9	NM_016279:c.G2153A;p.R718Q	0.61	P100
chr5	26921524	26921524	G	A	exonic	nonsynonymous SN\	CDH9	NM_016279:c.C1838T;p.T613M	0.11	P100
chr5	26921602	26921602	C	T	exonic	nonsynonymous SN\	CDH9	NM_016279:c.G1760A;p.R587H	0.01	P100
chr5	26925743	26925743	A	G	exonic	nonsynonymous SN\	CDH9	NM_016279:c.T1471C;p.Y491H	0.54	P100
chr5	26951657	26951657	T	G	exonic	nonsynonymous SN\	CDH9	NM_016279:c.A361C;p.K121Q	0.31	P100
chr5	26951676	26951676	C	A	exonic	nonsynonymous SN\	CDH9	NM_016279:c.G342T;p.K114N	0.01	P100
chr5	40800640	40800640	C	T	exonic	nonsynonymous SN\	PRKAA1	NM_006251:c.G1279A;p.A427T	0	P100
chr5	82821996	82821996	G	A	exonic	nonsynonymous SN\	VCAN	NM_001126336:c.G394A;p.V132I	0.01	P100
chr5	82825416	82825416	G	T	exonic	nonsynonymous SN\	VCAN	NM_001126336:c.G658T;p.D220Y	0	P100
chr5	82852986	82852986	C	A	exonic	nonsynonymous SN\	VCAN	NM_001164098:c.C3105A;p.F1035L	0.01	P100
chr5	82853372	82853372	T	G	exonic	nonsynonymous SN\	VCAN	NM_001164098:c.T3491G;p.L1164R	0	P100
chr5	82853561	82853561	C	A	exonic	nonsynonymous SN\	VCAN	NM_001164098:c.C3680A;p.S1227Y	0	P100
chr5	82869508	82869508	G	T	exonic	stopgain SNV	VCAN	NM_001164097:c.G1969T;p.E657X	0	P100
chr5	82870048	82870048	C	T	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.C2509T;p.L837F	0	P100
chr5	82871007	82871007	G	A	exonic	synonymous SNV	VCAN	NM_001164097:c.G3468A;p.Q1156G	0	P100
chr5	82872145	82872145	C	T	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.C4606T;p.R1536C	0	P100
chr5	82879576	82879576	G	A	exonic	nonsynonymous SN\	VCAN	NM_001126336:c.G1187A;p.R396H	0.02	P100
chr5	82911738	82911738	G	A	splicing		VCAN		0	P100
chr5	1.12E+08	1.12E+08	C	T	exonic	nonsynonymous SN\	APC	NM_001127511:c.C44T;p.A15V	0	P100
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3286T;p.R1096X	0	P100
chr5	1.12E+08	1.12E+08	A	G	exonic	nonsynonymous SN\	APC	NM_001127511:c.A3823G;p.T1275A	0.17	P100
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3871T;p.E1291X	0.29	P100
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C4294T;p.R1432X	0.04	P100
chr5	1.12E+08	1.12E+08	A	G	exonic	nonsynonymous SN\	APC	NM_001127511:c.A4535G;p.E1512G	0.01	P100
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C6655T;p.R2219X	0.04	P100
chr5	1.31E+08	1.31E+08	C	T	exonic	nonsynonymous SN\	ACSL6	NM_001009185:c.G907A;p.G303S	0	P100
chr5	1.38E+08	1.38E+08	G	A	exonic	synonymous SNV	CTNNA1	NM_001903:c.G210A;p.E70E	0	P100
chr5	1.38E+08	1.38E+08	C	A	exonic	nonsynonymous SN\	CTNNA1	NM_001903:c.C1456A;p.L486I	0.27	P100
chr5	1.38E+08	1.38E+08	G	A	exonic	nonsynonymous SN\	CTNNA1	NM_001903:c.G2345A;p.R782H	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA1	NM_018900:c.G1515A;p.S505S	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.G1852A;p.A618T	0.88	P100
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.C2060T;p.A687V	0.43	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA3	NM_018906:c.G1849A;p.G617S	0.83	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA4	NM_018907:c.G1246A;p.E416K	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA4	NM_018907:c.G1650A;p.T550T	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA4	NM_018907:c.G2158A;p.A720T	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA5	NM_018908:c.G387A;p.P129P	0	P100
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA5	NM_018908:c.C1230T;p.S410S	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA6	NM_018909:c.G1296A;p.S432S	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA7	NM_018910:c.G1296A;p.S432S	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA7	NM_018910:c.G2040A;p.S680S	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA11	NM_018902:c.G1928A;p.R643H	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA11	NM_018902:c.G2250A;p.S750S	0	P100
chr5	1.4E+08	1.4E+08	G	T	exonic	nonsynonymous SN\	PCDHA11	NM_018902:c.G2283T;p.E761D	0	P100
chr5	1.4E+08	1.4E+08	A	C	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.A326C;p.K109T	0.09	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.G1003A;p.D335N	0	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.G1015A;p.E339K	0.02	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.G2143A;p.A715T	0.54	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.G2335A;p.D779N	0.48	P100
chr5	1.4E+08	1.4E+08	G	T	exonic	stopgain SNV	PCDHB1	NM_013340:c.G898T;p.E300X	0.09	P100
chr5	1.4E+08	1.4E+08	C	T	exonic	stopgain SNV	PCDHB1	NM_013340:c.C1384T;p.R462X	0.11	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHB1	NM_013340:c.G2252A;p.R751Q	1	P100
chr5	1.4E+08	1.4E+08	C	A	exonic	nonsynonymous SN\	PCDHB3	NM_018937:c.C71A;p.S24Y	0.29	P100

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chr5	1.4E+08	1.4E+08	A	C	exonic	nonsynonymous SN\	PCDHB3	NM_018937:c.A523C:p.N175H	0.04	P100
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHB3	NM_018937:c.G633A:p.T211T		P100
chr5	1.4E+08	1.4E+08	G	T	exonic	nonsynonymous SN\	PCDHB5	NM_015669:c.G559T:p.D187Y	0	P100
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV	PCDHB6	NM_018939:c.G2301A:p.P767P		P100
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SN\	PCDHB7	NM_018940:c.G826A:p.E276K	0.28	P100
chr5	1.41E+08	1.41E+08	G	T	exonic	nonsynonymous SN\	PCDHB7	NM_018940:c.G860T:p.R287I	0.06	P100
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SN\	PCDHB7	NM_018940:c.G1273A:p.D425N	0	P100
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\	PCDHB10	NM_018930:c.C2321T:p.S774L	0	P100
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV	PCDHB11	NM_018931:c.C2220T:p.S740S		P100
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\	PCDHB13	NM_018933:c.C1214T:p.T405M	0	P100
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\	PCDHB13	NM_018933:c.C1244T:p.A415V	0.02	P100
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C12642T:p.V4214V		P100
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV	FAT2	NM_001447:c.G11223A:p.V3741V		P100
chr5	1.51E+08	1.51E+08	C	A	exonic	stopgain SNV	FAT2	NM_001447:c.G8584T:p.E2862X	0.09	P100
chr5	1.51E+08	1.51E+08	G	T	exonic	nonsynonymous SN\	FAT2	NM_001447:c.C6761A:p.S2254Y	0.02	P100
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SN\	FAT2	NM_001447:c.C1138T:p.R380C	0.18	P100
chr5	1.51E+08	1.51E+08	C	A	exonic	nonsynonymous SN\	FAT2	NM_001447:c.G753T:p.R251S	0.46	P100
chr5	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.C1180T:p.R394C	0	P100
chr5	1.69E+08	1.69E+08	C	A	exonic	synonymous SNV	DOCK2	NM_004946:c.C1344A:p.V448V		P100
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.G2534A:p.S845N	0.02	P100
chr5	1.69E+08	1.69E+08	C	T	exonic	synonymous SNV	DOCK2	NM_004946:c.C3069T:p.F1023F		P100
chr6	90717625	90717625	G	A	exonic	synonymous SNV	BACH2	NM_001170794:c.C921T:p.V307V		P100
chr6	90718106	90718106	G	A	exonic	nonsynonymous SN\	BACH2	NM_001170794:c.C440T:p.A147V	0.02	P100
chr6	90718224	90718224	C	T	exonic	nonsynonymous SN\	BACH2	NM_001170794:c.G322A:p.E108K	0.01	P100
chr6	90775189	90775189	T	G	exonic	nonsynonymous SN\	BACH2	NM_001170794:c.A96C:p.K32N	0.02	P100
chr6	1.12E+08	1.12E+08	C	T	exonic	synonymous SNV	FYN	NM_153047:c.G1443A:p.R481R		P100
chr6	1.12E+08	1.12E+08	T	C	exonic	synonymous SNV	FYN	NM_002037:c.A828G:p.R276R		P100
chr6	1.12E+08	1.12E+08	A	C	exonic	nonsynonymous SN\	FYN	NM_153047:c.T408G:p.N136K	0	P100
chr6	1.12E+08	1.12E+08	T	C	exonic	nonsynonymous SN\	FYN	NM_153047:c.A244G:p.T82A	0.59	P100
chr6	1.29E+08	1.29E+08	C	T	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.C410T:p.A137V	0	P100
chr6	1.3E+08	1.3E+08	G	T	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.G815T:p.R272I	0.09	P100
chr6	1.3E+08	1.3E+08	G	A	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.G3086A:p.R1029Q	0.16	P100
chr6	1.3E+08	1.3E+08	C	A	exonic	synonymous SNV	LAMA2	NM_000426:c.C5526A:p.A1842A		P100
chr6	1.3E+08	1.3E+08	C	A	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.C6175A:p.H2059N	0.18	P100
chr6	1.46E+08	1.46E+08	G	A	exonic	nonsynonymous SN\	GRM1	NM_000838:c.G431A:p.G144D	0.04	P100
chr6	1.47E+08	1.47E+08	C	T	exonic	synonymous SNV	GRM1	NM_000838:c.C1335T:p.I445I		P100
chr6	1.47E+08	1.47E+08	G	A	exonic	nonsynonymous SN\	GRM1	NM_000838:c.G1423A:p.A475T	0.33	P100
chr6	1.47E+08	1.47E+08	G	T	exonic	nonsynonymous SN\	GRM1	NM_000838:c.G1596T:p.Q532H	0.02	P100
chr6	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	SYNE1	NM_133650:c.G1963T:p.E655X	0.08	P100
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_133650:c.C404T:p.T135M	0	P100
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_133650:c.C378T:p.A126A		P100
chr6	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	SYNE1	NM_015293:c.G7009T:p.E2337X	0	P100
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.C6829T:p.R2277C	0	P100
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.C6352T:p.P2118S	0.42	P100
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.G4809T:p.E1603D	0.11	P100
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.G3361A:p.D1121N	0	P100
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.A3141G:p.I1047M	0.03	P100
chr6	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV	SYNE1	NM_015293:c.G1899A:p.A633A		P100
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_015293:c.C1566T:p.S522S		P100
chr6	1.53E+08	1.53E+08	T	A	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.A1311T:p.K437N	0.13	P100
chr6	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.C700A:p.H234N	0.18	P100
chr6	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.C380A:p.S127Y	0.1	P100
chr6	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	SYNE1	NM_015293:c.G295T:p.E99X	0	P100

chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C14008T;p.R4670C	0.03	P100	
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.A13153G;p.T4385A	0.17	P100	
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.A11758G;p.I3920V	0.93	P100	
chr6	1.53E+08	1.53E+08	T	G	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.A11492C;p.K3831T	0.03	P100	
chr6	1.53E+08	1.53E+08	A	G	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.T10061C;p.V3354A	0.01	P100	
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G9150T;p.L3050F	0.02	P100	
chr6	1.53E+08	1.53E+08	G	T	exonic	synonymous SNV	SYNE1	NM_033071:c.C7329A;p.T2443T		P100	
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_033071:c.C6516T;p.S2172S		P100	
chr6	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C6382A;p.L2128I	0.79	P100	
chr6	1.53E+08	1.53E+08	G	A	exonic	stopgain SNV	SYNE1	NM_033071:c.C6034T;p.R2012X	0.84	P100	
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_033071:c.C5664T;p.S1888S		P100	
chr6	1.53E+08	1.53E+08	A	G	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.T5578C;p.F1860L	0.41	P100	
chr6	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C5516A;p.S1839Y	0.07	P100	
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G4905T;p.E1635D	0.42	P100	
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G4635T;p.E1545D	0.94	P100	
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C3911T;p.A1304V	rs35378260	0.51	P100
chr6	1.53E+08	1.53E+08	T	G	splicing		SYNE1			P100	
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_033071:c.C3264T;p.I1088I		P100	
chr6	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C1433A;p.S478Y	0	P100	
chr6	1.53E+08	1.53E+08	G	T	exonic	synonymous SNV	SYNE1	NM_033071:c.C840A;p.T280T		P100	
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G625T;p.D209Y	0	P100	
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G564T;p.K188N	0.02	P100	
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C34T;p.R12W	0	P100	
chr6	1.66E+08	1.66E+08	C	A	exonic	nonsynonymous SN\	PDE10A	NM_001130690:c.G1096T;p.V366L	0.05	P100	
chr6	1.66E+08	1.66E+08	C	A	exonic	nonsynonymous SN\	PDE10A	NM_001130690:c.G232T;p.D78Y	0.32	P100	
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\	THBS2	NM_003247:c.G2995A;p.A999T	0	P100	
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\	THBS2	NM_003247:c.G340A;p.E114K	0.13	P100	
chr6	1.69E+08	1.69E+08	C	A	exonic	nonsynonymous SN\	THBS2	NM_003247:c.G228T;p.K76N	0.2	P100	
chr6	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\	THBS2	NM_003247:c.C175T;p.R59C	0.02	P100	
chr6	1.69E+08	1.69E+08	C	A	exonic	nonsynonymous SN\	THBS2	NM_003247:c.G70T;p.D24Y	0.01	P100	
chr7	36893749	36893749	C	T	exonic	nonsynonymous SN\	ELMO1	NM_001039459:c.G215A;p.R72H	0	P100	
chr7	37217541	37217541	C	T	exonic	nonsynonymous SN\	ELMO1	NM_014800:c.G1061A;p.R354Q	0.21	P100	
chr7	47935397	47935397	G	T	exonic	nonsynonymous SN\	PKD1L1	NM_138295:c.C989A;p.S330Y	0.05	P100	
chr7	81219503	81219503	G	A	exonic	nonsynonymous SN\	HGF	NM_000601:c.C494T;p.S165L	0.01	P100	
chr7	90733452	90733452	G	A	exonic	nonsynonymous SN\	FZD1	NM_003505:c.G1321A;p.E441K	0.02	P100	
chr7	91459453	91459453	T	G	exonic	nonsynonymous SN\	AKAP9	NM_005751:c.T397G;p.L133V	0.14	P100	
chr7	91470099	91470099	G	T	exonic	stopgain SNV	AKAP9	NM_005751:c.G2932T;p.E978X	0.1	P100	
chr7	91497159	91497159	C	T	exonic	nonsynonymous SN\	AKAP9	NM_005751:c.C4163T;p.S1388L	0	P100	
chr7	91544169	91544169	T	G	exonic	nonsynonymous SN\	AKAP9	NM_005751:c.T6677G;p.V2226G	0	P100	
chr7	93879889	93879889	G	A	exonic	nonsynonymous SN\	COL1A2	NM_000089:c.G1462A;p.E488K	0.24	P100	
chr7	93893253	93893253	C	A	exonic	nonsynonymous SN\	COL1A2	NM_000089:c.C2951A;p.S984Y	0.02	P100	
chr7	93893736	93893736	C	T	exonic	synonymous SNV	COL1A2	NM_000089:c.C3063T;p.G1021G		P100	
chr7	93896468	93896468	G	T	exonic	nonsynonymous SN\	COL1A2	NM_000089:c.G3744T;p.K1248N	0.58	P100	
chr7	98329438	98329438	G	T	exonic	stopgain SNV	TRRAP	NM_003496:c.G448T;p.E150X	0.03	P100	
chr7	98344317	98344317	C	T	exonic	synonymous SNV	TRRAP	NM_003496:c.C1146T;p.L382L		P100	
chr7	98345977	98345977	T	G	exonic;splicing	synonymous SNV	TRRAP	NM_003496:c.T1713G;p.G571G		P100	
chr7	98360703	98360703	C	T	exonic	synonymous SNV	TRRAP	NM_003496:c.C2856T;p.S952S	rs55715417	P100	
chr7	98413781	98413781	C	A	exonic	synonymous SNV	TRRAP	NM_003496:c.C8322A;p.S2774S		P100	
chr7	1E+08	1E+08	T	G	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.T127G;p.S43A		P100	
chr7	1E+08	1E+08	G	A	exonic	synonymous SNV	MUC17	NM_001040105:c.G5985A;p.T1995T		P100	
chr7	1E+08	1E+08	C	A	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.C6485A;p.P2162H		P100	
chr7	1E+08	1E+08	C	T	exonic	synonymous SNV	MUC17	NM_001040105:c.C12699T;p.V4233V		P100	
chr7	1.03E+08	1.03E+08	G	A	exonic	nonsynonymous SN\	RELN	NM_005045:c.C6806T;p.S2269F	0.65	P100	

chr7	1.03E+08	1.03E+08	G	T	exonic	synonymous SNV	RELN	NM_005045:c.C5094A:p.T1698T		P100
chr7	1.03E+08	1.03E+08	T	C	exonic	nonsynonymous SNV	RELN	NM_005045:c.A4082G:p.H1361R	0.28	P100
chr7	1.03E+08	1.03E+08	G	A	exonic	synonymous SNV	RELN	NM_005045:c.C2427T:p.L809L		P100
chr7	1.03E+08	1.03E+08	G	T	exonic	nonsynonymous SNV	RELN	NM_005045:c.C872A:p.S291Y	0.04	P100
chr7	1.03E+08	1.03E+08	C	T	exonic	nonsynonymous SNV	RELN	NM_005045:c.G184A:p.A62T	0.25	P100
chr7	1.13E+08	1.13E+08	C	A	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.G2505T:p.E835D	0	P100
chr7	1.13E+08	1.13E+08	G	T	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.C2483A:p.P828H	0	P100
chr7	1.13E+08	1.13E+08	C	A	exonic	stopgain SNV	PPP1R3A	NM_002711:c.G2119T:p.E707X		P100
chr7	1.13E+08	1.13E+08	T	C	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.A1619G:p.D540G	0.08	P100
chr7	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SNV	MLL3	NM_170606:c.G12323A:p.R4108Q	0.34	P100
chr7	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C11570T:p.T3857M	0.02	P100
chr7	1.51E+08	1.51E+08	G	T	exonic	synonymous SNV	MLL3	NM_170606:c.C11262A:p.S3754S		P100
chr7	1.52E+08	1.52E+08	G	A	exonic	synonymous SNV	MLL3	NM_170606:c.C8928T:p.V2976V		P100
chr7	1.52E+08	1.52E+08	A	G	exonic	nonsynonymous SNV	MLL3	NM_170606:c.T8477C:p.V2826A	0.52	P100
chr7	1.52E+08	1.52E+08	C	A	exonic	nonsynonymous SNV	MLL3	NM_170606:c.G7197T:p.K2399N	0.01	P100
chr7	1.52E+08	1.52E+08	T	C	exonic	synonymous SNV	MLL3	NM_170606:c.A6774G:p.G2258G		P100
chr7	1.52E+08	1.52E+08	G	A	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C5711T:p.T1904I	0	P100
chr7	1.52E+08	1.52E+08	G	T	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C4333A:p.L1445I	0.09	P100
chr7	1.52E+08	1.52E+08	C	A	exonic	nonsynonymous SNV	MLL3	NM_170606:c.G4040T:p.R1347I	0.11	P100
chr7	1.52E+08	1.52E+08	G	T	exonic	nonsynonymous SNV	MLL3	NM_170606:c.C1859A:p.S620Y	0	P100
chr8	41242125	41242125	G	A	exonic	synonymous SNV	SFRP1	NM_003012:c.C663T:p.G221G		P100
chr8	41910203	41910203	C	A	exonic	nonsynonymous SNV	MYST3	NM_006766:c.G4692T:p.E1564D	0.81	P100
chr8	41910712	41910712	C	T	exonic	nonsynonymous SNV	MYST3	NM_006766:c.G4183A:p.D1395N	0.19	P100
chr8	41914082	41914082	G	A	exonic	synonymous SNV	MYST3	NM_006766:c.C3201T:p.I1067I		P100
chr8	41914167	41914167	G	T	exonic	nonsynonymous SNV	MYST3	NM_006766:c.C3116A:p.S1039Y	0	P100
chr8	41917855	41917855	C	A	exonic	stopgain SNV	MYST3	NM_006766:c.G2701T:p.E901X	0.03	P100
chr8	41917966	41917966	G	A	exonic	nonsynonymous SNV	MYST3	NM_006766:c.C2590T:p.R864W	0	P100
chr8	41920548	41920548	C	T	exonic	synonymous SNV	MYST3	NM_006766:c.G2103A:p.E701E		P100
chr8	41955428	41955428	C	T	exonic	nonsynonymous SNV	MYST3	NM_006766:c.G932A:p.R311Q	0.23	P100
chr8	52920862	52920862	T	G	exonic	nonsynonymous SNV	PCMTD1	NM_052937:c.A322C:p.N108H	0	P100
chr9	32622566	32622566	C	A	exonic	nonsynonymous SNV	TAF1L	NM_153809:c.G3012T:p.K1004N	0	P100
chr9	32623671	32623671	C	T	exonic	nonsynonymous SNV	TAF1L	NM_153809:c.G1907A:p.R636H	0	P100
chr9	90917324	90917324	G	T	exonic	nonsynonymous SNV	SHC3	NM_016848:c.C512A:p.S171Y	0	P100
chr9	96903884	96903884	G	A	exonic	nonsynonymous SNV	FANCC	NM_000136:c.C1603T:p.R535C	0	P100
chr9	1.17E+08	1.17E+08	G	A	exonic	synonymous SNV	TNC	NM_002160:c.C6210T:p.Y2070Y		P100
chr9	1.17E+08	1.17E+08	G	A	exonic	synonymous SNV	TNC	NM_002160:c.C4614T:p.S1538S		P100
chr9	1.17E+08	1.17E+08	G	T	exonic	nonsynonymous SNV	TNC	NM_002160:c.C3061A:p.L1021I	0.24	P100
chr9	1.17E+08	1.17E+08	C	A	exonic	nonsynonymous SNV	TNC	NM_002160:c.G2661T:p.E887D	0.1	P100
chr9	1.35E+08	1.35E+08	G	A	exonic	nonsynonymous SNV	GFI1B	NM_001135031:c.G749A:p.R250H	0.03	P100
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C186T:p.C62C		P100
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C4968T:p.V1656V		P100
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C5406T:p.I1802I		P100
chr10	5134350	5134350	G	T	exonic	nonsynonymous SNV	AKR1C3	NM_003739:c.G628T:p.D210Y	0.01	P100
chr10	5237768	5237768	G	A	exonic	nonsynonymous SNV	AKR1C4	NM_001818:c.G418A:p.D140N	0.08	P100
chr10	5244997	5244997	C	A	exonic	nonsynonymous SNV	AKR1C4	NM_001818:c.C721A:p.L241I	0.47	P100
chr10	28236689	28236689	A	C	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.T2519G:p.V840G	0	P100
chr10	28268849	28268849	C	T	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.G2080A:p.A694T	0.01	P100
chr10	28313965	28313965	T	G	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.A564C:p.K188N	0.11	P100
chr10	51254750	51254750	C	A	exonic	nonsynonymous SNV	NCOA4	NM_001145262:c.C843A:p.F281L	0.01	P100
chr10	55239247	55239247	T	G	exonic	stoploss SNV	PCDH15	NM_001142770:c.A4619C:p.X1540S		P100
chr10	55240399	55240399	G	T	exonic	synonymous SNV	PCDH15	NM_001142772:c.C4405A:p.R1469R		P100
chr10	55252060	55252060	A	C	exonic	nonsynonymous SNV	PCDH15	NM_001142767:c.T5312G:p.L1771R	0.34	P100
chr10	55252963	55252963	G	A	exonic	nonsynonymous SNV	PCDH15	NM_001142767:c.C4409T:p.A1470V	0.01	P100

chr10	55270217	55270217	G	A	exonic	synonymous SNV	PCDH15	NM_001142765:c.C3639T;p.V1213V	P100
chr10	55287027	55287027	G	T	exonic	synonymous SNV	PCDH15	NM_001142765:c.C3507A;p.V1169V	P100
chr10	55389519	55389519	C	T	exonic	nonsynonymous SNV	PCDH15	NM_001142765:c.G2888A;p.R963H	0.07 P100
chr10	55582916	55582916	A	C	exonic	synonymous SNV	PCDH15	NM_001142767:c.T1623G;p.T541T	P100
chr10	74897403	74897403	C	T	exonic	nonsynonymous SNV	PPP3CB	NM_001142353:c.G1022A;p.R341Q	0.31 P100
chr10	74909163	74909163	T	C	exonic	synonymous SNV	PPP3CB	NM_001142353:c.A204G;p.E68E	P100
chr10	1.06E+08	1.06E+08	G	A	exonic;splicing	nonsynonymous SNV	COL17A1	NM_000494:c.C4156T;p.R1386C	0.02 P100
chr10	1.06E+08	1.06E+08	G	A	exonic	synonymous SNV	COL17A1	NM_000494:c.C1002T;p.S334S	P100
chr10	1.06E+08	1.06E+08	G	T	exonic	stopgain SNV	COL17A1	NM_000494:c.C728A;p.S243X	0 P100
chr10	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	CTBP2	NM_022802:c.C2662T;p.R888C	0.01 P100
chr10	1.27E+08	1.27E+08	G	A	exonic	synonymous SNV	CTBP2	NM_022802:c.C1923T;p.I641I	P100
chr10	1.29E+08	1.29E+08	C	T	exonic	synonymous SNV	DOCK1	NM_001380:c.C4587T;p.I1529I	rs61733304 P100
chr11	2125431	2125431	C	T	exonic	nonsynonymous SNV	INS-IGF2	NM_001042376:c.G590A;p.R197H	P100
chr11	35158404	35158404	T	C	exonic	nonsynonymous SNV	CD44	NM_000610:c.T241C;p.F81L	0 P100
chr11	35199776	35199776	G	T	splicing		CD44		P100
chr11	76726068	76726068	C	A	exonic	nonsynonymous SNV	PAK1	NM_001128620:c.G1165T;p.D389Y	0 P100
chr11	1.06E+08	1.06E+08	C	A	exonic	nonsynonymous SNV	GUCY1A2	NM_000855:c.G1739T;p.R580I	0 P100
chr11	1.06E+08	1.06E+08	G	T	exonic	stopgain SNV	GUCY1A2	NM_000855:c.C681A;p.C227X	0 P100
chr11	1.06E+08	1.06E+08	C	A	exonic	nonsynonymous SNV	GUCY1A2	NM_000855:c.G632T;p.R211I	0.03 P100
chr11	1.08E+08	1.08E+08	C	T	exonic	nonsynonymous SNV	ATM	NM_000051:c.C94T;p.R32C	0.02 P100
chr11	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ATM	NM_000051:c.C1887T;p.S629S	P100
chr11	1.08E+08	1.08E+08	C	A	exonic	nonsynonymous SNV	ATM	NM_000051:c.C3749A;p.S1250Y	0.04 P100
chr11	1.08E+08	1.08E+08	C	A	exonic	nonsynonymous SNV	ATM	NM_000051:c.C4255A;p.L1419I	0 P100
chr11	1.08E+08	1.08E+08	T	G	exonic	nonsynonymous SNV	ATM	NM_000051:c.T4334G;p.F1445C	0 P100
chr11	1.08E+08	1.08E+08	A	G	exonic	nonsynonymous SNV	ATM	NM_000051:c.A5288G;p.Y1763C	0 P100
chr11	1.08E+08	1.08E+08	T	A	exonic	nonsynonymous SNV	ATM	NM_000051:c.T6009A;p.D2003E	0.53 P100
chr11	1.08E+08	1.08E+08	G	T	exonic	nonsynonymous SNV	ATM	NM_000051:c.G6148T;p.D2050Y	0 P100
chr11	1.08E+08	1.08E+08	C	A	exonic	synonymous SNV	ATM	NM_000051:c.C6864A;p.V2288V	P100
chr11	1.08E+08	1.08E+08	C	A	exonic	nonsynonymous SNV	ATM	NM_000051:c.C8517A;p.F2839L	0.04 P100
chr11	1.24E+08	1.24E+08	G	T	exonic	synonymous SNV	OR8B8	NM_012378:c.C378A;p.I126I	P100
chr11	1.28E+08	1.28E+08	T	G	exonic	synonymous SNV	KCNJ1	NM_000220:c.A594C;p.A198A	P100
chr11	1.34E+08	1.34E+08	G	A	exonic	nonsynonymous SNV	GLB1L2	NM_138342:c.G128A;p.R43Q	P100
chr11	1.34E+08	1.34E+08	G	A	exonic	synonymous SNV	GLB1L2	NM_138342:c.G483A;p.R161R	P100
chr11	1.34E+08	1.34E+08	G	A	exonic	nonsynonymous SNV	GLB1L2	NM_138342:c.G904A;p.V302M	P100
chr12	5931296	5931296	T	G	exonic	nonsynonymous SNV	VWF	NM_000552:c.A8130C;p.K2710N	0 P100
chr12	5973489	5973489	A	G	exonic	nonsynonymous SNV	VWF	NM_000552:c.T6398C;p.V2133A	0.54 P100
chr12	5975549	5975549	C	T	exonic	synonymous SNV	VWF	NM_000552:c.G5943A;p.E1981E	P100
chr12	6032197	6032197	C	T	exonic	synonymous SNV	VWF	NM_000552:c.G1959A;p.P653P	P100
chr12	25271572	25271572	A	G	exonic	synonymous SNV	KRAS	NM_004985:c.T153C;p.C51C	P100
chr12	25271580	25271580	C	A	exonic	stopgain SNV	KRAS	NM_004985:c.G145T;p.E49X	0.01 P100
chr12	46787502	46787502	A	G	exonic	nonsynonymous SNV	PFKM	NM_001166686:c.A79G;p.T27A	0 P100
chr12	47457258	47457258	C	A	exonic	nonsynonymous SNV	ADCY6	NM_015270:c.G1272T;p.K424N	0 P100
chr12	94705044	94705044	A	C	exonic	nonsynonymous SNV	NTN4	NM_021229:c.T389G;p.L130R	0 P100
chr12	1.08E+08	1.08E+08	G	T	exonic	nonsynonymous SNV	ACACB	NM_001093:c.G385T;p.D129Y	0 P100
chr12	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SNV	ACACB	NM_001093:c.G2552A;p.R851Q	P100
chr12	1.08E+08	1.08E+08	A	C	exonic	nonsynonymous SNV	ACACB	NM_001093:c.A3041C;p.E1014A	P100
chr12	1.08E+08	1.08E+08	G	T	exonic	nonsynonymous SNV	ACACB	NM_001093:c.G4441T;p.D1481Y	0.01 P100
chr12	1.08E+08	1.08E+08	G	T	exonic	nonsynonymous SNV	ACACB	NM_001093:c.G4456T;p.D1486Y	0 P100
chr12	1.08E+08	1.08E+08	T	G	exonic	nonsynonymous SNV	ACACB	NM_001093:c.T6521G;p.F2174C	P100
chr12	1.28E+08	1.28E+08	C	T	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.G3154A;p.A1052T	0.9 P100
chr12	1.28E+08	1.28E+08	G	T	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.C2537A;p.S846Y	1 P100
chr12	1.28E+08	1.28E+08	C	A	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.G2349T;p.K783N	0.12 P100
chr12	1.28E+08	1.28E+08	G	A	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.C1421T;p.S474L	0 P100

chr12	1.29E+08	1.29E+08	G	A	exonic	nonsynonymous SN\ TMEM132D	NM_133448:c.C853T;p.R285C	0.09	P100
chr12	1.31E+08	1.31E+08	G	T	exonic	synonymous SNV EP400	NM_015409:c.G6552T;p.L2184L		P100
chr12	1.31E+08	1.31E+08	G	A	exonic	nonsynonymous SN\ EP400	NM_015409:c.G6931A;p.A2311T	0.11	P100
chr12	1.31E+08	1.31E+08	G	A	exonic	synonymous SNV EP400	NM_015409:c.G8580A;p.A2860A		P100
chr13	23927162	23927162	G	A	exonic	synonymous SNV PARP4	NM_006437:c.C2751T;p.F917F		P100
chr13	23949853	23949853	A	C	exonic	nonsynonymous SN\ PARP4	NM_006437:c.T1775G;p.F592C	0.18	P100
chr13	23973917	23973917	G	T	exonic	nonsynonymous SN\ PARP4	NM_006437:c.C188A;p.S63Y	0.01	P100
chr13	66699290	66699290	G	T	exonic	nonsynonymous SN\ PCDH9	NM_020403:c.C1284A;p.D428E	0	P100
chr13	66699644	66699644	C	T	exonic	synonymous SNV PCDH9	NM_020403:c.G930A;p.G310G		P100
chr13	66699785	66699785	C	A	exonic	nonsynonymous SN\ PCDH9	NM_020403:c.G789T;p.E263D	0	P100
chr13	93890217	93890217	C	T	exonic	nonsynonymous SN\ DCT	NM_001922:c.G1496A;p.R499Q	0.37	P100
chr13	93890226	93890226	C	A	exonic	nonsynonymous SN\ DCT	NM_001922:c.G1487T;p.R496I	0	P100
chr13	93912332	93912332	G	A	exonic	stopgain SNV DCT	NM_001129889:c.C976T;p.R326X	0.49	P100
chr13	93915946	93915946	C	T	exonic	nonsynonymous SN\ DCT	NM_001129889:c.G805A;p.D269N	0.15	P100
chr14	22933228	22933228	G	A	exonic	synonymous SNV MYH6	NM_002471:c.C2574T;p.F858F		P100
chr14	31629861	31629861	A	C	exonic	nonsynonymous SN\ ARHGAP5	NM_001030055:c.A235C;p.I79L	0.18	P100
chr14	31631463	31631463	G	T	exonic	stopgain SNV ARHGAP5	NM_001030055:c.G1837T;p.E613X	0.02	P100
chr14	31691401	31691401	G	A	exonic	nonsynonymous SN\ ARHGAP5	NM_001030055:c.G4097A;p.R1366H	0.01	P100
chr14	49681979	49681979	G	A	exonic	nonsynonymous SN\ SOS2	NM_006939:c.C2470T;p.R824C	0.01	P100
chr14	49686497	49686497	A	C	exonic	nonsynonymous SN\ SOS2	NM_006939:c.T2363G;p.L788R	0	P100
chr14	49696102	49696102	C	T	exonic	nonsynonymous SN\ SOS2	NM_006939:c.G1649A;p.R550Q	0	P100
chr14	49710990	49710990	G	A	exonic	nonsynonymous SN\ SOS2	NM_006939:c.C1000T;p.R334C	0	P100
chr15	26042886	26042886	G	T	exonic	nonsynonymous SN\ HERC2	NM_004667:c.C13080A;p.F4360L	1	P100
chr15	26065034	26065034	C	T	exonic	nonsynonymous SN\ HERC2	NM_004667:c.G10952A;p.R3651H	0	P100
chr15	26109968	26109968	C	A	exonic	nonsynonymous SN\ HERC2	NM_004667:c.G8469T;p.E2823D	0.02	P100
chr15	26175809	26175809	C	T	exonic	nonsynonymous SN\ HERC2	NM_004667:c.G2510A;p.R837Q	0	P100
chr15	64516252	64516252	G	A	exonic	nonsynonymous SN\ MAP2K1	NM_002755:c.G406A;p.D136N	0.17	P100
chr15	67010072	67010072	C	T	exonic	nonsynonymous SN\ SPESP1	NM_145658:c.C26T;p.A9V	0	P100
chr15	67122077	67122077	C	T	exonic	nonsynonymous SN\ NOX5	NM_001184779:c.C1441T;p.R481W		P100
chr16	3956238	3956238	C	T	exonic	nonsynonymous SN\ ADCY9	NM_001116:c.G3601A;p.G1201S	0	P100
chr16	4105047	4105047	T	G	exonic	nonsynonymous SN\ ADCY9	NM_001116:c.A398C;p.Y133S	0.01	P100
chr16	23131690	23131690	G	A	exonic	nonsynonymous SN\ SCNN1G	NM_001039:c.G1405A;p.A469T	0.02	P100
chr16	30031008	30031008	T	G	exonic	nonsynonymous SN\ GDPD3	NM_024307:c.A519C;p.E173D		P100
chr16	30032230	30032230	C	T	exonic	nonsynonymous SN\ GDPD3	NM_024307:c.G71A;p.R24H		P100
chr16	54074453	54074453	G	T	exonic	nonsynonymous SN\ MMP2	NM_001127891:c.G135T;p.E45D	0.31	P100
chr16	54089838	54089838	C	A	exonic	synonymous SNV MMP2	NM_001127891:c.C1596A;p.I532I		P100
chr16	60612716	60612716	C	T	exonic	synonymous SNV CDH8	NM_001796:c.G93A;p.P31P		P100
chr16	73477700	73477700	G	A	exonic	stopgain SNV WDR59	NM_030581:c.C2515T;p.R839X		P100
chr17	1512096	1512096	C	A	exonic	nonsynonymous SN\ PRPF8	NM_006445:c.G3876T;p.E1292D	0	P100
chr17	1524504	1524504	C	T	exonic	nonsynonymous SN\ PRPF8	NM_006445:c.G3281A;p.R1094H	0.01	P100
chr17	1524710	1524710	C	T	exonic	synonymous SNV PRPF8	NM_006445:c.G3075A;p.T1025T		P100
chr17	1525352	1525352	C	T	exonic	synonymous SNV PRPF8	NM_006445:c.G2904A;p.T968T		P100
chr17	3564914	3564914	C	A	exonic	nonsynonymous SN\ ITGAE	NM_002208:c.G3516T;p.E1172D	0.8	P100
chr17	3600435	3600435	C	T	exonic	nonsynonymous SN\ ITGAE	NM_002208:c.G1984A;p.D662N	0	P100
chr17	3607077	3607077	G	A	exonic	nonsynonymous SN\ ITGAE	NM_002208:c.C1121T;p.A374V	0	P100
chr17	3613953	3613953	C	T	exonic	nonsynonymous SN\ ITGAE	NM_002208:c.G206A;p.R69Q	0.25	P100
chr17	7517269	7517269	G	A	exonic	nonsynonymous SN\ TP53	NM_001126117:c.C638T;p.S213L		P100
chr17	10288851	10288851	C	T	exonic	nonsynonymous SN\ MYH4	NM_017533:c.G5557A;p.E1853K	0.01	P100
chr17	10292150	10292150	C	T	exonic	nonsynonymous SN\ MYH4	NM_017533:c.G4675A;p.E1559K	0	P100
chr17	10292714	10292714	C	T	exonic	nonsynonymous SN\ MYH4	NM_017533:c.G4477A;p.E1493K	0	P100
chr17	10297921	10297921	C	A	exonic	nonsynonymous SN\ MYH4	NM_017533:c.G2698T;p.D900Y	0	P100
chr17	10299067	10299067	T	G	exonic	nonsynonymous SN\ MYH4	NM_017533:c.A2351C;p.K784T	0.01	P100
chr17	10310599	10310599	C	T	exonic	synonymous SNV MYH4	NM_017533:c.G189A;p.K63K		P100

chr17	10310683	10310683	C	A	exonic	nonsynonymous SN\ MYH4	NM_017533:c.G105T:p.K35N	0	P100
chr17	10338648	10338648	C	T	exonic	nonsynonymous SN\ MYH1	NM_005963:c.G5534A:p.R1845H	0.02	P100
chr17	10367631	10367631	C	A	exonic	nonsynonymous SN\ MYH2	NM_001100112:c.G5379T:p.E1793D	0.04	P100
chr17	10367663	10367663	C	T	exonic	nonsynonymous SN\ MYH2	NM_001100112:c.G5347A:p.A1783T	0.2	P100
chr17	10381751	10381751	C	T	exonic	nonsynonymous SN\ MYH2	NM_001100112:c.G1543A:p.D515N	0	P100
chr17	10383256	10383256	C	A	exonic	nonsynonymous SN\ MYH2	NM_001100112:c.G1407T:p.E469D	0	P100
chr17	26557505	26557505	G	A	exonic	nonsynonymous SN\ NF1	NM_000267:c.G1382A:p.R461Q	0	P100
chr17	26677211	26677211	C	T	exonic	nonsynonymous SN\ NF1	NM_000267:c.C5020T:p.R1674W	0	P100
chr17	26681494	26681494	C	T	exonic	synonymous SNV NF1	NM_000267:c.C5601T:p.I1867I		P100
chr17	38306531	38306531	G	T	exonic	nonsynonymous SN\ G6PC	NM_000151:c.G112T:p.D38Y	0	P100
chr17	38316841	38316841	T	C	exonic	nonsynonymous SN\ G6PC	NM_000151:c.T946C:p.S316P	0.02	P100
chr17	38498011	38498011	A	G	exonic	synonymous SNV BRCA1	NM_007297:c.T2922C:p.S974S		P100
chr17	42571242	42571242	G	T	exonic	nonsynonymous SN\ CDC27	NM_001114091:c.C1584A:p.F528L	0	P100
chr17	43103152	43103152	C	A	exonic	nonsynonymous SN\ KPNB1	NM_002265:c.C1502A:p.S501Y	0.06	P100
chr17	51758580	51758580	G	T	splicing	ANKFN1			P100
chr17	51783270	51783270	C	T	exonic	synonymous SNV ANKFN1	NM_153228:c.C342T:p.F114F		P100
chr17	51913069	51913069	C	A	exonic	nonsynonymous SN\ ANKFN1	NM_153228:c.C1991A:p.S664Y	0.05	P100
chr17	71237082	71237082	C	T	exonic	synonymous SNV ITGB4	NM_001005619:c.C708T:p.F236F		P100
chr17	71258778	71258778	G	T	exonic	nonsynonymous SN\ ITGB4	NM_001005619:c.G3784T:p.D1262Y	0	P100
chr17	75933511	75933511	G	T	exonic	nonsynonymous SN\ RNF213	NM_020914:c.G6928T:p.D2310Y	0	P100
chr17	75973460	75973460	C	A	exonic	nonsynonymous SN\ RNF213	NM_020914:c.C14496A:p.F4832L		P100
chr18	6932125	6932125	C	T	exonic	nonsynonymous SN\ LAMA1	NM_005559:c.G9181A:p.E3061K	0.41	P100
chr18	6954767	6954767	T	G	exonic	nonsynonymous SN\ LAMA1	NM_005559:c.A7231C:p.N2411H	0.08	P100
chr18	6955414	6955414	G	A	exonic	synonymous SNV LAMA1	NM_005559:c.C7068T:p.I2356I		P100
chr18	6967821	6967821	G	A	exonic	nonsynonymous SN\ LAMA1	NM_005559:c.C6250T:p.R2084W	0.01	P100
chr18	7032155	7032155	T	C	exonic	nonsynonymous SN\ LAMA1	NM_005559:c.A1250G:p.D417G	0.52	P100
chr18	7036283	7036283	A	C	exonic	synonymous SNV LAMA1	NM_005559:c.T852G:p.T284T		P100
chr18	7878178	7878178	G	T	exonic	stopgain SNV PTPRM	NM_001105244:c.G271T:p.E91X	0.01	P100
chr18	7939192	7939192	G	A	exonic	nonsynonymous SN\ PTPRM	NM_001105244:c.G677A:p.R226Q	0.38	P100
chr18	8059731	8059731	C	T	exonic	nonsynonymous SN\ PTPRM	NM_001105244:c.C1180T:p.R394W	0	P100
chr18	8059748	8059748	C	T	exonic	synonymous SNV PTPRM	NM_001105244:c.C1197T:p.R399R		P100
chr18	8103530	8103530	A	C	exonic	nonsynonymous SN\ PTPRM	NM_001105244:c.A1903C:p.K635Q	0.01	P100
chr18	8286371	8286371	C	T	exonic	synonymous SNV PTPRM	NM_002845:c.C2721T:p.F907F		P100
chr18	8366523	8366523	G	T	exonic	nonsynonymous SN\ PTPRM	NM_002845:c.G3351T:p.R1117S	0.53	P100
chr18	46444771	46444771	G	A	exonic	nonsynonymous SN\ MAPK4	NM_002747:c.G445A:p.D149N		P100
chr18	46847555	46847555	G	T	exonic;splicing	nonsynonymous SN\ SMAD4	NM_005359:c.G1308T:p.K436N	0	P100
chr18	48705715	48705715	C	T	exonic	nonsynonymous SN\ DCC	NM_005215:c.C962T:p.A321V	0.2	P100
chr18	49231006	49231006	G	A	exonic	nonsynonymous SN\ DCC	NM_005215:c.G3368A:p.R1123Q	0	P100
chr18	61698694	61698694	G	T	exonic	stopgain SNV CDH7	NM_004361:c.G1942T:p.E648X	0.02	P100
chr19	16374173	16374173	C	T	exonic	nonsynonymous SN\ EPS15L1	NM_021235:c.G1750A:p.E584K	0.3	P100
chr19	16414014	16414014	G	A	exonic	nonsynonymous SN\ EPS15L1	NM_021235:c.C50T:p.S17L	0.12	P100
chr19	43628990	43628990	G	T	exonic	stopgain SNV RYR1	NM_000540:c.G670T:p.G224X	0	P100
chr19	43634293	43634293	G	A	exonic	nonsynonymous SN\ RYR1	NM_000540:c.G1172A:p.R391H	0.01	P100
chr19	43638198	43638198	C	A	exonic	synonymous SNV RYR1	NM_000540:c.C1758A:p.I586I		P100
chr19	43660275	43660275	A	G	exonic	nonsynonymous SN\ RYR1	NM_000540:c.A4379G:p.D1460G	0.24	P100
chr19	43668445	43668445	G	A	exonic	synonymous SNV RYR1	NM_000540:c.G5310A:p.S1770S		P100
chr19	43673125	43673125	G	T	exonic	nonsynonymous SN\ RYR1	NM_000540:c.G6040T:p.D2014Y	0.06	P100
chr19	43697522	43697522	C	A	exonic	synonymous SNV RYR1	NM_000540:c.C9489A:p.V3163V		P100
chr19	43701858	43701858	C	T	exonic	nonsynonymous SN\ RYR1	NM_000540:c.C10183T:p.R3395W		P100
chr19	43715012	43715012	C	A	exonic	synonymous SNV RYR1	NM_001042723:c.C11169A:p.I3723I		P100
chr19	43717261	43717261	C	T	exonic	nonsynonymous SN\ RYR1	NM_001042723:c.C11306T:p.A3769V		P100
chr19	43762498	43762498	C	T	exonic	nonsynonymous SN\ RYR1	NM_001042723:c.C14386T:p.L4796F	0.05	P100
chr19	47166267	47166267	C	T	exonic	nonsynonymous SN\ ATP1A3	NM_152296:c.G2452A:p.E818K	0	P100

chr19	47785489	47785489	C	T	exonic	synonymous SNV	CEACAM8	NM_001816:c.G663A:p.A221A		P100
chr19	47925119	47925119	G	T	exonic	synonymous SNV	PSG3	NM_021016:c.C1239A:p.V413V		P100
chr19	47934982	47934982	A	G	exonic	nonsynonymous SNV	PSG3	NM_021016:c.T164C:p.V55A		0.12 P100
chr19	48267869	48267869	C	T	exonic	nonsynonymous SNV	PSG2	NM_031246:c.G787A:p.A263T	rs112235686	0.24 P100
chr19	60040927	60040927	A	G	exonic	nonsynonymous SNV	KIR2DS4	NM_012314:c.A155G:p.D52G		0.01 P100
chr19	61105228	61105228	T	C	exonic	nonsynonymous SNV	NLRP13	NM_176810:c.A2774G:p.N925S		0.06 P100
chr19	61115200	61115200	C	A	exonic	stopgain SNV	NLRP13	NM_176810:c.G1795T:p.E599X		0.25 P100
chr19	61116312	61116312	G	A	exonic	nonsynonymous SNV	NLRP13	NM_176810:c.C683T:p.A228V		0.11 P100
chr20	23369045	23369045	C	A	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.C141A:p.F47L		0 P100
chr20	44103530	44103530	G	A	exonic	nonsynonymous SNV	SLC12A5	NM_001134771:c.G1079A:p.R360Q		0.59 P100
chr20	57995941	57995941	C	T	exonic	synonymous SNV	CDH26	NM_177980:c.C876T:p.G292G		P100
chr20	57996065	57996065	G	A	exonic	nonsynonymous SNV	CDH26	NM_177980:c.G1000A:p.E334K		0.01 P100
chr21	45700291	45700291	C	T	exonic	nonsynonymous SNV	COL18A1	NM_030582:c.C419T:p.A140V		0.1 P100
chr21	45735638	45735638	C	A	exonic	synonymous SNV	COL18A1	NM_030582:c.C2679A:p.V893V		P100
chr21	45749703	45749703	T	C	exonic	nonsynonymous SNV	COL18A1	NM_030582:c.T3548C:p.I1183T		0.02 P100
chr22	21795535	21795535	G	A	exonic	nonsynonymous SNV	GNAZ	NM_002073:c.G985A:p.D329N		0 P100
chr22	39843302	39843302	C	A	exonic	nonsynonymous SNV	EP300	NM_001429:c.C260A:p.S87Y		0.03 P100
chr22	39867046	39867046	G	T	exonic	stopgain SNV	EP300	NM_001429:c.G1927T:p.E643X		0 P100
chr22	39883211	39883211	C	T	exonic	synonymous SNV	EP300	NM_001429:c.C3354T:p.V1118V	rs11704815	P100
chrX	18876786	18876786	G	A	exonic	synonymous SNV	PHKA2	NM_000292:c.C534T:p.V178V		P100
chrX	19289393	19289393	C	A	exonic	nonsynonymous SNV	MAP3K15	NM_001001671:c.G3842T:p.R1281I		1 P100
chrX	19320463	19320463	C	T	exonic	synonymous SNV	MAP3K15	NM_001001671:c.G2244A:p.P748P		P100
chrX	19385048	19385048	G	A	exonic	nonsynonymous SNV	MAP3K15	NM_001001671:c.C899T:p.A300V		P100
chrX	31406229	31406229	C	T	exonic	nonsynonymous SNV	DMD	NM_004014:c.G665A:p.R222H	rs72466567	0.22 P100
chrX	32276449	32276449	C	T	exonic	nonsynonymous SNV	DMD	NM_004011:c.G1420A:p.D474N		0.31 P100
chrX	32293199	32293199	C	A	exonic	synonymous SNV	DMD	NM_004011:c.G861T:p.L287L		P100
chrX	32391534	32391534	C	T	exonic	synonymous SNV	DMD	NM_004007:c.G3006A:p.S1002S		P100
chrX	70520695	70520695	G	T	exonic	nonsynonymous SNV	TAF1	NM_004606:c.G2166T:p.K722N		0.03 P100
chrX	70525340	70525340	A	C	exonic	nonsynonymous SNV	TAF1	NM_004606:c.A2657C:p.K886T		0 P100
chrX	70559765	70559765	C	A	exonic	nonsynonymous SNV	TAF1	NM_004606:c.C4586A:p.S1529Y		0 P100
chrX	1E+08	1E+08	C	T	exonic	nonsynonymous SNV	BTK	NM_000061:c.G1475A:p.R492H		0.26 P100
chrX	1.01E+08	1.01E+08	G	A	exonic	nonsynonymous SNV	BTK	NM_000061:c.C367T:p.R123W		0 P100
chrX	1.14E+08	1.14E+08	T	G	exonic	stopgain SNV	HTR2C	NM_000868:c.T275G:p.L92X		0 P100
chrX	1.38E+08	1.38E+08	C	T	exonic	nonsynonymous SNV	FGF13	NM_004114:c.G115A:p.D39N		0.24 P100
chrX	1.54E+08	1.54E+08	C	T	exonic	nonsynonymous SNV	F8	NM_000132:c.G6404A:p.R2135Q		0.25 P100
chrX	1.54E+08	1.54E+08	G	A	exonic	stopgain SNV	F8	NM_000132:c.C5878T:p.R1960X		P100
chrX	1.54E+08	1.54E+08	G	A	exonic	nonsynonymous SNV	F8	NM_000132:c.C4580T:p.T1527M		0.01 P100
chrX	1.54E+08	1.54E+08	G	T	exonic	nonsynonymous SNV	F8	NM_000132:c.C4388A:p.S1463Y		0 P100
chrX	1.54E+08	1.54E+08	G	A	exonic	nonsynonymous SNV	F8	NM_000132:c.C784T:p.P262S		0 P100
chrX	1.54E+08	1.54E+08	G	T	exonic	nonsynonymous SNV	F8	NM_000132:c.C268A:p.L90M		0.02 P100
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G2287A:p.A763T		P97
chr3	58069294	58069294	G	C	exonic	nonsynonymous SNV	FLNB	NM_001164317:c.G2011C:p.D671H		0 P97
chr5	1.12E+08	1.12E+08	G	A	splicing		APC			P97
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA12	NM_018903:c.C1542T:p.S514S		P97
chr10	55239084	55239084	C	T	exonic	nonsynonymous SNV	PCDH15	NM_001142769:c.G4747A:p.D1583N		P97
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 P97
chr17	7517849	7517849	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G418A:p.V140M		0 P97
chr3	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SNV	IGSF10	NM_178822:c.G1477A:p.V493I		0.1 P98
chr5	1.12E+08	1.12E+08	G	A	exonic	nonsynonymous SNV	APC	NM_001127511:c.G799A:p.D267N		0.02 P98
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3853T:p.Q1285X		0.35 P98
chr6	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	SYNE1	NM_033071:c.G8047T:p.E2683X		0.02 P98
chr7	1.03E+08	1.03E+08	C	G	exonic	nonsynonymous SNV	RELN	NM_005045:c.G2147C:p.G716A		0.59 P98
chr11	1.08E+08	1.08E+08	C	T	exonic;splicing	nonsynonymous SNV	ATM	NM_000051:c.C2921T:p.S974F		0.16 P98

chr13	30131418	30131418	C	T	exonic	synonymous SNV	USPL1	NM_005800:c.C3204T;p.S1068S	P98
chr17	7518263	7518263	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G347A;p.R116Q rs11540652	0.02 P98
chr19	48271428	48271428	C	A	exonic	nonsynonymous SNV	PSG2	NM_031246:c.G627T;p.K209N	0 P98
chr1	1.58E+08	1.58E+08	C	T	exonic	synonymous SNV	ATP1A2	NM_000702:c.C1815T;p.S605S	P93
chr1	1.58E+08	1.58E+08	C	T	exonic	nonsynonymous SNV	ATP1A2	NM_000702:c.C3019T;p.R1007W	0 P93
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV	APC	NM_000038:c.C646T;p.R216X rs62619935	0.19 P93
chr17	7517846	7517846	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C421T;p.R141C	0 P93
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3880T;p.G1294X	0.37 P88
chr17	7517846	7517846	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C421T;p.R141C	0 P88
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV	PCDHB7	NM_018940:c.C714T;p.N238N	P91
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.G1763A;p.S588N	0.15 P91
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SNV	THBS2	NM_003247:c.G2719A;p.D907N	0.31 P91
chr12	25269829	25269829	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G436A;p.A146T	0.01 P91
chr17	7519186	7519186	C	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G73T;p.V25F	0 P91
chr4	1.56E+08	1.56E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C162T;p.P54P	P89
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C4231T;p.Q1411X	0 P89
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHB2	NM_018936:c.G1273A;p.V425I	0.09 P89
chr10	75343748	75343748	T	A	exonic	nonsynonymous SNV	PLAU	NM_001145031:c.T634A;p.Y212N	0 P89
chr12	1.28E+08	1.28E+08	G	A	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.C2162T;p.T721M	0.08 P89
chr12	1.28E+08	1.28E+08	C	T	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.G1684A;p.E562K	0.02 P89
chr17	7518334	7518334	C	G	splicing		TP53		P89
chr1	70259355	70259355	A	T	exonic	nonsynonymous SNV	LRRC7	NM_020794:c.A1386T;p.E462D	0.33 P117
chr1	2.14E+08	2.14E+08	G	A	exonic	synonymous SNV	USH2A	NM_206933:c.C13098T;p.A4366A	P117
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C11394T;p.C3798C	P117
chr3	41241128	41241128	A	G	exonic	nonsynonymous SNV	CTNNB1	NM_001098209:c.A121G;p.T41A	0.01 P117
chr3	1.42E+08	1.42E+08	C	T	exonic	synonymous SNV	CLSTN2	NM_022131:c.C2748T;p.S916S	P117
chr4	1.27E+08	1.27E+08	T	C	exonic	synonymous SNV	FAT4	NM_024582:c.T5601C;p.D1867D	P117
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.C7763T;p.T2588I	0.04 P117
chr4	1.57E+08	1.57E+08	T	C	exonic	synonymous SNV	GUCY1A3	NM_001130684:c.T411C;p.G137G	P117
chr5	1.41E+08	1.41E+08	T	C	exonic	nonsynonymous SNV	PCDHB13	NM_018933:c.T1022C;p.V341A	0.24 P117
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C960T;p.I320I	P117
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.G4852A;p.G1618S	0.03 P117
chr6	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV	LAMA2	NM_000426:c.G1419A;p.G473G	P117
chr6	1.47E+08	1.47E+08	G	A	exonic	nonsynonymous SNV	GRM1	NM_000838:c.G3130A;p.A1044T	0.67 P117
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.G7337T;p.S2446I	0.05 P117
chr7	98414364	98414364	G	A	exonic	synonymous SNV	TRRAP	NM_003496:c.G8460A;p.T2820T	P117
chr12	25271542	25271542	T	A	exonic	nonsynonymous SNV	KRAS	NM_004985:c.A183T;p.Q61H rs17851045	0.01 P117
chr12	47450977	47450977	G	A	exonic	nonsynonymous SNV	ADCY6	NM_015270:c.C3095T;p.T1032M	0 P117
chr13	66103486	66103486	C	G	exonic	nonsynonymous SNV	PCDH9	NM_020403:c.G3095C;p.S1032T	0.04 P117
chr14	31691465	31691465	C	T	exonic	synonymous SNV	ARHGAP5	NM_001030055:c.C4161T;p.Y1387Y	P117
chr14	49654970	49654970	G	A	exonic	stopgain SNV	SOS2	NM_006939:c.C3841T;p.Q1281X	P117
chr15	67010073	67010073	G	A	exonic	synonymous SNV	SPESP1	NM_145658:c.G27A;p.A9A	P117
chr16	4104616	4104616	G	T	exonic	nonsynonymous SNV	ADCY9	NM_001116:c.C829A;p.L277M	0.17 P117
chr16	4105000	4105000	C	T	exonic	nonsynonymous SNV	ADCY9	NM_001116:c.G445A;p.A149T	0.4 P117
chr16	23113091	23113091	A	G	exonic	nonsynonymous SNV	SCNN1G	NM_001039:c.A908G;p.E303G	0.01 P117
chr16	54076731	54076731	C	A	exonic	synonymous SNV	MMP2	NM_001127891:c.C399A;p.P133P	P117
chr17	3603395	3603395	C	T	exonic	nonsynonymous SNV	ITGAE	NM_002208:c.G1606A;p.A536T	0 P117
chr17	10292083	10292083	G	T	exonic	nonsynonymous SNV	MYH4	NM_017533:c.C4742A;p.A1581D	0.04 P117
chr18	6932160	6932160	G	A	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.C9146T;p.P3049L	0.35 P117
chr19	43700163	43700163	G	A	exonic	nonsynonymous SNV	RYR1	NM_000540:c.G10010A;p.R3337Q	P117
chrX	47314359	47314359	C	T	exonic	nonsynonymous SNV	ARAF	NM_001654:c.C1543T;p.R515C	0 P117
chr4	1.26E+08	1.26E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G1333A;p.G445R	P116
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3286T;p.R1096X	0 P116

chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHB4	NM_018938:c.C2211T:p.D737D		P116
chr9	1.17E+08	1.17E+08	T	A	splicing		TNC			P116
chr17	7519131	7519131	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G128A:p.R43H	rs28934578	0 P116
chr17	38456654	38456654	T	C	exonic	nonsynonymous SNV	BRCA1	NM_007297:c.A5143G:p.R1715G		0 P116
chr18	8384482	8384482	G	A	exonic	nonsynonymous SNV	PTPRM	NM_002845:c.G4178A:p.G1393E		0.04 P116
chr19	7881916	7881916	G	A	exonic	nonsynonymous SNV	MAP2K7	NM_145185:c.G727A:p.D243N		P116
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SNV	PCDHA2	NM_018905:c.C40T:p.R14W		0.19 P84
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 P84
chr18	46858653	46858653	G	A	exonic	nonsynonymous SNV	SMAD4	NM_005359:c.G1477A:p.D493N		0.05 P84
chr1	11103914	11103914	C	T	exonic	synonymous SNV	MTOR	NM_004958:c.G6909A:p.L2303L	rs11121691	P85
chr1	45042611	45042611	G	C	exonic	synonymous SNV	PLK3	NM_004073:c.G1356C:p.P452P	rs11211036	P85
chr1	46294104	46294104	G	A	exonic	synonymous SNV	PIK3R3	NM_003629:c.C891T:p.S297S	rs785468	P85
chr1	46294146	46294146	A	T	exonic	nonsynonymous SNV	PIK3R3	NM_003629:c.T849A:p.N283K	rs785467	1 P85
chr1	70276525	70276525	G	A	exonic	synonymous SNV	LRRC7	NM_020794:c.G2316A:p.S772S	rs12567778	P85
chr1	1.51E+08	1.51E+08	T	C	exonic	nonsynonymous SNV	FLG	NM_002016:c.A2401G:p.K801E		1 P85
chr1	1.84E+08	1.84E+08	A	T	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.A15260T:p.D5087V	rs41317507	0.01 P85
chr1	1.84E+08	1.84E+08	C	T	exonic	synonymous SNV	HMCN1	NM_031935:c.C15393T:p.S5131S		P85
chr1	1.84E+08	1.84E+08	A	G	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.A16568G:p.N5523S		P85
chr1	2.14E+08	2.14E+08	T	C	exonic	synonymous SNV	USH2A	NM_206933:c.A12666G:p.T4222T	rs2797234	P85
chr1	2.14E+08	2.14E+08	A	G	exonic	synonymous SNV	USH2A	NM_206933:c.T5142C:p.N1714N		P85
chr1	2.14E+08	2.14E+08	C	T	exonic	nonsynonymous SNV	USH2A	NM_007123:c.G4457A:p.R1486K	rs1805049	1 P85
chr1	2.28E+08	2.28E+08	G	A	exonic	synonymous SNV	ACTA1	NM_001100:c.C543T:p.D181D		P85
chr1	2.46E+08	2.46E+08	A	G	exonic	nonsynonymous SNV	OR2M5	NM_001004690:c.A907G:p.K303E	rs73141283	0.01 P85
chr1	2.47E+08	2.47E+08	C	T	exonic	synonymous SNV	OR2M7	NM_001004691:c.G855A:p.L285L	rs4451579	P85
chr2	15459788	15459788	C	G	exonic	nonsynonymous SNV	NBAS	NM_015909:c.G3026C:p.C1009S	rs74411619	1 P85
chr2	15473213	15473213	C	G	exonic	nonsynonymous SNV	NBAS	NM_015909:c.G2845C:p.V949L	rs74727069	0.86 P85
chr2	15473283	15473283	A	G	exonic	synonymous SNV	NBAS	NM_015909:c.T2775C:p.D925D	rs79283114	P85
chr2	15530911	15530911	T	C	exonic	synonymous SNV	NBAS	NM_015909:c.A1611G:p.E537E	rs35454315	P85
chr2	15616197	15616197	G	C	exonic	nonsynonymous SNV	NBAS	NM_015909:c.C130G:p.Q44E	rs77081203	1 P85
chr2	1.16E+08	1.16E+08	T	C	exonic	nonsynonymous SNV	DPP10	NM_001004360:c.T937C:p.Y313H		0 P85
chr2	2.38E+08	2.38E+08	C	G	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G7213C:p.A2405P	rs2270669	P85
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G6108A:p.A2036A	rs4433949	P85
chr2	2.38E+08	2.38E+08	C	G	exonic	synonymous SNV	COL6A3	NM_057166:c.G5034C:p.G1678G	rs3790993	P85
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G2363A:p.R788Q	rs80272723	P85
chr3	1.25E+08	1.25E+08	G	T	exonic	nonsynonymous SNV	MYLK	NM_053025:c.C62A:p.P21H	rs28497577	0.03 P85
chr3	1.44E+08	1.44E+08	A	G	exonic	synonymous SNV	ATR	NM_001184:c.T5208C:p.Y1736Y	rs2227931	P85
chr3	1.44E+08	1.44E+08	A	G	exonic	synonymous SNV	ATR	NM_001184:c.T1815C:p.D605D	rs2227929	P85
chr3	1.44E+08	1.44E+08	A	T	exonic	synonymous SNV	ATR	NM_001184:c.T1776A:p.G592G	rs2227930	P85
chr3	1.44E+08	1.44E+08	A	G	exonic	nonsynonymous SNV	ATR	NM_001184:c.T632C:p.M211T	rs2227928	0.15 P85
chr3	1.53E+08	1.53E+08	A	C	exonic	synonymous SNV	IGSF10	NM_001178145:c.T672G:p.S224S	rs9864533	P85
chr4	1.26E+08	1.26E+08	C	G	exonic	nonsynonymous SNV	FAT4	NM_024582:c.C3769G:p.Q1257E	rs36052762	P85
chr4	1.27E+08	1.27E+08	T	C	exonic	synonymous SNV	FAT4	NM_024582:c.T6585C:p.N2195N	rs17009618	P85
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G10571A:p.G3524D	rs1567047	0.06 P85
chr4	1.56E+08	1.56E+08	T	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.A2303G:p.H768F	rs10017772	0.49 P85
chr4	1.56E+08	1.56E+08	A	G	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.T458C:p.V153A	rs11721758	0.06 P85
chr4	1.56E+08	1.56E+08	T	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.A1858G:p.T620A	rs72731014	0.58 P85
chr4	1.56E+08	1.56E+08	G	A	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.C1841T:p.A614V	rs55810732	0.35 P85
chr4	1.56E+08	1.56E+08	G	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.C1777G:p.Q593f	rs72731016	1 P85
chr4	1.56E+08	1.56E+08	C	T	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.G44A:p.R15Q	rs13149269	0.49 P85
chr5	82869125	82869125	A	G	exonic	nonsynonymous SNV	VCAN	NM_001164097:c.A1586G:p.K529F	rs309559	0 P85
chr5	82870055	82870055	G	A	exonic	nonsynonymous SNV	VCAN	NM_001164097:c.G2516A:p.R839f	rs188703	0 P85
chr5	82870386	82870386	T	C	exonic	synonymous SNV	VCAN	NM_001164097:c.T2847C:p.G949C	rs309557	P85
chr5	82871301	82871301	A	G	exonic	synonymous SNV	VCAN	NM_001164097:c.A3762G:p.R1254	rs160279	P85

chr5	82871480	82871480	T	A	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.T3941A:p.F1314	rs160278	0	P85
chr5	82873387	82873387	G	T	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.G5848T:p.D1950	rs160277	0	P85
chr5	82879620	82879620	C	G	exonic	nonsynonymous SN\	VCAN	NM_001126336:c.C1231G:p.L411V		0.02	P85
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA1	NM_018900:c.C1588T:p.L530L	rs3733710		P85
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\	PCDHA1	NM_018900:c.A2195G:p.Y732C	rs2240696	1	P85
chr5	1.4E+08	1.4E+08	G	T	exonic	nonsynonymous SN\	PCDHA1	NM_018900:c.G2276T:p.C759F	rs2240695	0	P85
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.G73A:p.E25K	rs9686540	0.12	P85
chr5	1.4E+08	1.4E+08	G	C	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.G316C:p.V106L	rs11167600	1	P85
chr5	1.4E+08	1.4E+08	T	C	exonic	synonymous SNV	PCDHA3	NM_018906:c.T1110C:p.A370A	rs3733707		P85
chr5	1.4E+08	1.4E+08	G	T	exonic	nonsynonymous SN\	PCDHA3	NM_018906:c.G1319T:p.S440I	rs7701755	0.02	P85
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA3	NM_018906:c.G2276A:p.C759Y	rs2240694	0	P85
chr5	1.4E+08	1.4E+08	T	G	exonic	synonymous SNV	PCDHA4	NM_018907:c.T1611G:p.A537A	rs2337987		P85
chr5	1.4E+08	1.4E+08	A	G	exonic	synonymous SNV	PCDHA4	NM_018907:c.A1629G:p.P543P	rs2879086		P85
chr5	1.4E+08	1.4E+08	G	C	exonic	synonymous SNV	PCDHA4	NM_018907:c.G1803C:p.S601S	rs2879087		P85
chr5	1.4E+08	1.4E+08	G	C	exonic	nonsynonymous SN\	PCDHA5	NM_018908:c.G2065C:p.E689Q	rs17844298	0.11	P85
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA5	NM_018908:c.C2072T:p.A691V	rs4141841	0.04	P85
chr5	1.4E+08	1.4E+08	T	G	exonic	synonymous SNV	PCDHA6	NM_018909:c.T1791G:p.V597V	rs7710794		P85
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\	PCDHA8	NM_018911:c.A1735G:p.K579E	rs6580012	1	P85
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHAC1	NM_018898:c.G807A:p.Q269Q	rs155361		P85
chr5	1.4E+08	1.4E+08	C	G	exonic	synonymous SNV	PCDHAC1	NM_018898:c.C1269G:p.P423P	rs155820		P85
chr5	1.4E+08	1.4E+08	C	G	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.C1492G:p.L498V	rs246074	1	P85
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHB4	NM_018938:c.G597A:p.L199L	rs3776100		P85
chr5	1.4E+08	1.4E+08	C	G	exonic	nonsynonymous SN\	PCDHB5	NM_015669:c.C776G:p.S259C		0.02	P85
chr5	1.41E+08	1.41E+08	G	C	exonic	nonsynonymous SN\	PCDHB7	NM_018940:c.G1165C:p.V389L	rs2910313	1	P85
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV	PCDHB7	NM_018940:c.G1440A:p.S480S	rs2907330		P85
chr5	1.41E+08	1.41E+08	C	G	exonic	synonymous SNV	PCDHB7	NM_018940:c.C1590G:p.R530R	rs2907329		P85
chr5	1.41E+08	1.41E+08	T	C	exonic	synonymous SNV	PCDHB7	NM_018940:c.T2190C:p.F730F	rs11741863		P85
chr5	1.41E+08	1.41E+08	G	T	exonic	synonymous SNV	PCDHB11	NM_018931:c.G2163T:p.S721S	rs638054		P85
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SN\	FAT2	NM_001447:c.C3491T:p.P1164L	rs2304053	0.02	P85
chr5	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	DOCK2	NM_004946:c.G2727A:p.Q909Q	rs261623		P85
chr6	90717040	90717040	T	C	exonic	synonymous SNV	BACH2	NM_001170794:c.A1506G:p.V502V	rs9451298		P85
chr6	90717475	90717475	G	A	exonic	synonymous SNV	BACH2	NM_001170794:c.C1071T:p.P357P	rs2236182		P85
chr6	1.29E+08	1.29E+08	C	T	exonic	synonymous SNV	LAMA2	NM_000426:c.C156T:p.I52I	rs1140366		P85
chr6	1.3E+08	1.3E+08	T	C	exonic	synonymous SNV	LAMA2	NM_000426:c.T1491C;p.C497C	rs2306220		P85
chr6	1.53E+08	1.53E+08	T	C	exonic	synonymous SNV	SYNE1	NM_133650:c.A1479G:p.E493E	rs2747662		P85
chr6	1.53E+08	1.53E+08	C	G	exonic	nonsynonymous SN\	SYNE1	NM_133650:c.G1454C:p.G485A	rs2252755	0.52	P85
chr6	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV	SYNE1	NM_133650:c.G1311A;p.P437P	rs2252748		P85
chr6	1.53E+08	1.53E+08	T	G	exonic	nonsynonymous SN\	SYNE1	NM_133650:c.A967C:p.N323H	rs36215251	0.01	P85
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.G911A:p.R304Q	rs76160752	0.09	P85
chr6	1.66E+08	1.66E+08	T	C	exonic	synonymous SNV	PDE10A	NM_001130690:c.A204G:p.S68S	rs9459421		P85
chr6	1.69E+08	1.69E+08	A	G	exonic	synonymous SNV	THBS2	NM_003247:c.T3360C;p.T1120T	rs1132742		P85
chr6	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	THBS2	NM_003247:c.C2007T;p.G669G	rs35935937		P85
chr7	37265325	37265325	C	T	exonic	synonymous SNV	ELMO1	NM_014800:c.G399A:p.V133V	rs2717968		P85
chr7	98388831	98388831	A	T	exonic	nonsynonymous SN\	TRRAP	NM_003496:c.A5494T:p.N1832Y		0.05	P85
chr7	98418967	98418967	G	A	exonic	nonsynonymous SN\	TRRAP	NM_003496:c.G8896A;p.D2966N		0	P85
chr7	1E+08	1E+08	T	A	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.T2229A:p.S743R			P85
chr7	1E+08	1E+08	A	T	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.A9215T;p.D3072V			P85
chr7	1.03E+08	1.03E+08	T	C	exonic	synonymous SNV	RELN	NM_005045:c.A8136G:p.L2712L	rs3808039		P85
chr7	1.03E+08	1.03E+08	A	G	exonic	synonymous SNV	RELN	NM_005045:c.T7110C;p.V2370V	rs362746		P85
chr7	1.03E+08	1.03E+08	G	C	exonic	nonsynonymous SN\	RELN	NM_005045:c.C2989G;p.L997V	rs362691	0.86	P85
chr7	1.52E+08	1.52E+08	C	T	exonic	synonymous SNV	MLL3	NM_170606:c.G8685A:p.Q2895Q	rs6464211		P85
chr7	1.52E+08	1.52E+08	C	T	exonic	synonymous SNV	MLL3	NM_170606:c.G8040A;p.Q2680Q	rs10252263		P85
chr7	1.52E+08	1.52E+08	C	G	exonic	nonsynonymous SN\	MLL3	NM_170606:c.G1577C;p.R526P	rs3735156	0.12	P85

chr9	96909357	96909357	C	T	exonic	nonsynonymous SN\	FANCC	NM_000136:c.G1345A:p.V449M	rs1800367	0.07	P85
chr9	1.17E+08	1.17E+08	C	T	exonic	synonymous SNV	TNC	NM_002160:c.G6144A:p.G2048G	rs79563958		P85
chr9	1.17E+08	1.17E+08	G	A	exonic	synonymous SNV	TNC	NM_002160:c.C3165T:p.A1055A	rs3748172		P85
chr9	1.23E+08	1.23E+08	T	C	exonic	nonsynonymous SN\	TRAF1	NM_001190947:c.A170G:p.Q57R		0.51	P85
chr9	1.24E+08	1.24E+08	C	G	exonic	nonsynonymous SN\	OR1L1	NM_001005236:c.C195G:p.I65M	rs73571128	0.01	P85
chr10	35969356	35969356	C	T	exonic	synonymous SNV	FZD8	NM_031866:c.G1008A:p.E336E	rs73270587		P85
chr10	55625491	55625491	A	G	exonic	synonymous SNV	PCDH15	NM_001142767:c.T1152C:p.T384T	rs7921598		P85
chr10	55625616	55625616	C	T	exonic	nonsynonymous SN\	PCDH15	NM_001142767:c.G1027A:p.G343G	rs10825269	0.68	P85
chr10	97164342	97164342	T	C	exonic	nonsynonymous SN\	SORBS1	NM_001034954:c.A709G:p.T237A	rs2281939	0	P85
chr10	1.06E+08	1.06E+08	T	C	exonic	nonsynonymous SN\	COL17A1	NM_000494:c.A4109G:p.D1370G	rs17116350	0.49	P85
chr10	1.16E+08	1.16E+08	T	A	exonic	nonsynonymous SN\	C10orf81	NM_001193435:c.T205A:p.F69I	rs41292632	0.16	P85
chr10	1.16E+08	1.16E+08	T	C	exonic	synonymous SNV	C10orf81	NM_001193435:c.T759C:p.A253A	rs3750901		P85
chr10	1.16E+08	1.16E+08	T	C	exonic	synonymous SNV	C10orf81	NM_001193435:c.T972C:p.A324A	rs11196483		P85
chr11	1.24E+08	1.24E+08	A	G	exonic	synonymous SNV	OR8B8	NM_012378:c.T360C:p.Y120Y	rs4296049		P85
chr12	6043776	6043776	G	A	exonic	synonymous SNV	VWF	NM_000552:c.C1329T:p.S443S			P85
chr12	25254044	25254044	A	G	exonic	synonymous SNV	KRAS	NM_004985:c.T519C:p.D173D	rs1137282		P85
chr12	46812979	46812979	G	A	exonic	nonsynonymous SN\	PFKM	NM_001166688:c.G299A:p.R100Q	rs2228500	0.42	P85
chr12	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SN\	ACACB	NM_001093:c.G1951A:p.A651T	rs2300455	0.01	P85
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C6204T:p.H2068H	rs3742023		P85
chr12	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	TMEM132D	NM_133448:c.G1821A:p.T607T	rs79031518		P85
chr13	23907297	23907297	G	T	exonic	nonsynonymous SN\	PARP4	NM_006437:c.C3982A:p.P1328T	rs1050112	0.64	P85
chr13	23907441	23907441	C	G	exonic	nonsynonymous SN\	PARP4	NM_006437:c.G3838C:p.G1280R	rs13428	0.09	P85
chr13	23907485	23907485	C	G	exonic	nonsynonymous SN\	PARP4	NM_006437:c.G3794C:p.G1265A	rs1050110	1	P85
chr13	23927295	23927295	C	T	exonic	nonsynonymous SN\	PARP4	NM_006437:c.G2618A:p.S873N	rs7140044	0.53	P85
chr13	66103521	66103521	A	G	exonic	synonymous SNV	PCDH9	NM_020403:c.T3060C:p.H1020H	rs3764117		P85
chr14	22944381	22944381	C	T	exonic	synonymous SNV	MYH6	NM_002471:c.G393A:p.L131L	rs17277970		P85
chr14	90596510	90596510	T	C	exonic	nonsynonymous SN\	RPS6KA5	NM_004755:c.A22G:p.S8G		0.47	P85
chr15	67111013	67111013	C	G	exonic	nonsynonymous SN\	NOX5	NM_001184779:c.C343G:p.P115A	rs78571685		P85
chr15	75131848	75131848	T	A	exonic	synonymous SNV	TSPAN3	NM_001168412:c.A411T:p.V137V	rs111737		P85
chr16	4104365	4104365	C	T	exonic	synonymous SNV	ADCY9	NM_001116:c.G1080A:p.R360R	rs2230738		P85
chr16	54094228	54094228	C	T	exonic	synonymous SNV	MMP2	NM_001127891:c.C1656T:p.F552F	rs14070		P85
chr17	3577990	3577990	A	G	exonic	nonsynonymous SN\	ITGAE	NM_002208:c.T3056C:p.V1019A	rs2976230	0.09	P85
chr17	10250337	10250337	T	C	exonic	synonymous SNV	MYH8	NM_002472:c.A2274G:p.Q758Q			P85
chr17	10358154	10358154	G	A	exonic	synonymous SNV	MYH1	NM_005963:c.C546T:p.G182G	rs113019239		P85
chr17	10482240	10482240	C	T	exonic	nonsynonymous SN\	MYH3	NM_002470:c.G3574A:p.A1192T	rs2285477	0.56	P85
chr17	10484188	10484188	T	C	exonic	synonymous SNV	MYH3	NM_002470:c.A2532G:p.A844A	rs2285469		P85
chr17	38509679	38509679	C	T	exonic	nonsynonymous SN\	BRC A1	NM_007297:c.G286A:p.E96K	rs80356991	0.03	P85
chr17	43090974	43090974	G	A	exonic	synonymous SNV	KPNB1	NM_002265:c.G585A:p.T195T	rs1136613		P85
chr17	43105467	43105467	T	C	exonic	synonymous SNV	KPNB1	NM_002265:c.T1632C:p.Y544Y	rs1136614		P85
chr17	75907784	75907784	A	T	exonic	nonsynonymous SN\	RNF213	NM_020954:c.A3101T:p.K1034M	rs55996424	0	P85
chr17	75920466	75920466	G	A	exonic	nonsynonymous SN\	RNF213	NM_020914:c.G3730A:p.V1244M	rs10782008		P85
chr17	75920697	75920697	G	C	exonic	nonsynonymous SN\	RNF213	NM_020914:c.G3961C:p.E1321Q	rs9913636		P85
chr17	75920875	75920875	A	G	exonic	nonsynonymous SN\	RNF213	NM_020914:c.A4139G:p.D1380G	rs8074015		P85
chr17	75920903	75920903	C	G	exonic	synonymous SNV	RNF213	NM_020914:c.C4167G:p.V1389V	rs9908287		P85
chr17	75926103	75926103	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G4797A:p.A1599A	rs4890009		P85
chr17	75933731	75933731	G	A	exonic	nonsynonymous SN\	RNF213	NM_020914:c.G7148A:p.S2383N	rs9674961	0.44	P85
chr17	75933975	75933975	G	C	exonic	synonymous SNV	RNF213	NM_020914:c.G7392C:p.P2464P	rs4890012		P85
chr17	75941953	75941953	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G10617A:p.E3539E	rs7216493	0.24	P85
chr17	75961443	75961443	C	T	exonic	synonymous SNV	RNF213	NM_020914:c.C12972T:p.H4324H			P85
chr17	75969256	75969256	C	T	exonic	synonymous SNV	RNF213	NM_020914:c.C13818T:p.H4606H	rs4889848		P85
chr18	6967844	6967844	A	G	exonic	nonsynonymous SN\	LAMA1	NM_005559:c.T6227C:p.I2076T	rs671871	0.67	P85
chr18	7007322	7007322	A	G	exonic	synonymous SNV	LAMA1	NM_005559:c.T2763C:p.C921C	rs539713		P85
chr18	8369303	8369303	G	A	exonic	nonsynonymous SN\	PTPRM	NM_002845:c.G3712A:p.E1238K		0.01	P85

chr18	48686600	48686600	C	G	exonic	nonsynonymous SN\ DCC	NM_005215:c.C601G:p.R201G	rs2229080	0.42	P85
chr18	59321762	59321762	A	G	exonic	nonsynonymous SN\ SERPINB5	NM_002639:c.A955G:p.I319V	rs1455555		P85
chr19	7881586	7881586	C	T	exonic	synonymous SNV MAP2K7	NM_145185:c.C573T:p.D191D	rs2303701		P85
chr19	43685405	43685405	G	A	exonic	synonymous SNV RYR1	NM_000540:c.G7881A:p.V2627V			P85
chr19	47960225	47960225	A	G	exonic	nonsynonymous SN\ PSG8	NM_001130167:c.T113C:p.I38T	rs75687580	0.17	P85
chr20	23369101	23369101	G	A	exonic	nonsynonymous SN\ CSTL1	NM_138283:c.G197A:p.R66K	rs17757442	0.58	P85
chr20	23372613	23372613	T	C	exonic	nonsynonymous SN\ CSTL1	NM_138283:c.T262C:p.W88R	rs3746736	1	P85
chr20	23372638	23372638	C	T	exonic	nonsynonymous SN\ CSTL1	NM_138283:c.C287T:p.T96M	rs3746737	0.01	P85
chr20	23372660	23372660	G	C	exonic	synonymous SNV CSTL1	NM_138283:c.G309C:p.L103L	rs12625959		P85
chr21	45722671	45722671	C	G	exonic	synonymous SNV COL18A1	NM_030582:c.C1764G:p.G588G	rs13046486		P85
chrX	1E+08	1E+08	G	A	exonic	synonymous SNV BTK	NM_000061:c.C1899T:p.C633C	rs1135363		P85
chrX	1.12E+08	1.12E+08	C	T	exonic	synonymous SNV AMOT	NM_001113490:c.G2946A:p.P982P			P85
chrX	1.52E+08	1.52E+08	G	C	exonic	synonymous SNV ATP2B3	NM_001001344:c.G2592C:p.V864	rs2269415		P85
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G9595A:p.E3199K		0.32	P82
chr2	1.7E+08	1.7E+08	G	A	exonic	nonsynonymous SN\ LRP2	NM_004525:c.C9127T:p.R3043C		0	P82
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV COL6A3	NM_057166:c.G6423A:p.P2141P	rs113754336		P82
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C3286T:p.R1096X		0	P82
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C4294T:p.R1432X		0.04	P82
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\ SYNE1	NM_033071:c.G7767T:p.Q2589H		0.28	P82
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35A:p.G12D		0	P82
chr4	1.57E+08	1.57E+08	G	A	exonic	synonymous SNV GUCY1A3	NM_001130684:c.G687A:p.T229T			P83
chr5	1.12E+08	1.12E+08	A	T	exonic	stopgain SNV APC	NM_001127511:c.A2923T:p.K975X		0	P83
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C4231T:p.Q1411X		0	P83
chr7	1.03E+08	1.03E+08	T	G	exonic	nonsynonymous SN\ RELN	NM_005045:c.A8093C:p.D2698A		0.24	P83
chr9	1.37E+08	1.37E+08	C	T	exonic	nonsynonymous SN\ COL5A1	NM_000093:c.C4706T:p.P1569L		0	P83
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35A:p.G12D		0	P83
chr17	7518263	7518263	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G347A:p.R116Q	rs11540652	0.02	P83
chr18	61680920	61680920	C	T	exonic	nonsynonymous SN\ CDH7	NM_004361:c.C1651T:p.R551W		0.01	P83
chr1	1.51E+08	1.51E+08	C	A	exonic	synonymous SNV FLG	NM_002016:c.G2433T:p.G811G			P109
chr4	1.57E+08	1.57E+08	G	T	exonic	nonsynonymous SN\ GUCY1A3	NM_001130684:c.G1110T:p.M370I		0	P109
chr5	82869818	82869818	C	T	exonic	nonsynonymous SN\ VCAN	NM_001164097:c.C2279T:p.S760L		0	P109
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C3928T:p.Q1310X		0.15	P109
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV FAT2	NM_0011447:c.G9261A:p.A3087A			P109
chr14	90426688	90426688	G	A	exonic	nonsynonymous SN\ RPS6KA5	NM_004755:c.C1732T:p.P578S		0.39	P109
chr15	67112539	67112539	C	T	exonic	synonymous SNV NOX5	NM_001184779:c.C639T:p.C213C			P109
chr17	7518933	7518933	T	C	exonic	nonsynonymous SN\ TP53	NM_001126115:c.A245G:p.H82R		0.02	P109
chr18	8059951	8059951	G	A	exonic	nonsynonymous SN\ PTPRM	NM_001105244:c.G1400A:p.R467Q		0.1	P109
chr1	2.14E+08	2.14E+08	T	C	exonic	synonymous SNV USH2A	NM_206933:c.A12081G:p.Q4027Q			P108
chr1	2.14E+08	2.14E+08	G	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C6043A:p.L2015I		0.23	P108
chr3	58114305	58114305	C	A	exonic	synonymous SNV FLNB	NM_001164319:c.C6459A:p.T2153T			P108
chr3	1.25E+08	1.25E+08	T	C	exonic	nonsynonymous SN\ MYLK	NM_053031:c.A365G:p.K122R		0.78	P108
chr3	1.44E+08	1.44E+08	T	A	exonic	synonymous SNV ATR	NM_0011184:c.A5841T:p.A1947A			P108
chr4	1.26E+08	1.26E+08	A	G	exonic	nonsynonymous SN\ FAT4	NM_024582:c.A4645G:p.T1549A			P108
chr4	1.27E+08	1.27E+08	T	C	exonic	synonymous SNV FAT4	NM_024582:c.T5637C:p.I1879I			P108
chr4	1.27E+08	1.27E+08	T	C	exonic	synonymous SNV FAT4	NM_024582:c.T12591C:p.C4197C			P108
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C1441T:p.R481X		0	P108
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\ PCDHA7	NM_018910:c.A2090G:p.N697S		0.02	P108
chr5	1.4E+08	1.4E+08	T	C	exonic	nonsynonymous SN\ PCDHB3	NM_018937:c.T347C:p.F116S		0.15	P108
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SN\ FAT2	NM_0011447:c.C8182T:p.R2728W		0.03	P108
chr6	1.66E+08	1.66E+08	A	G	exonic	nonsynonymous SN\ PDE10A	NM_001130690:c.T116C:p.V39A		0.14	P108
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\ THBS2	NM_003247:c.G2683A:p.A895T		0.01	P108
chr7	93876037	93876037	G	A	exonic	nonsynonymous SN\ COL1A2	NM_000089:c.G758A:p.G253D	rs72656385	0	P108
chr7	93883733	93883733	A	G	exonic	synonymous SNV COL1A2	NM_000089:c.A1845G:p.P615P			P108

chr7	1.51E+08	1.51E+08	T	C	exonic	nonsynonymous SN\ MLL3	NM_170606:c.A13639G;p.T4547A	0.12	P108
chr7	1.54E+08	1.54E+08	T	C	exonic	nonsynonymous SN\ PAXIP1	NM_007349:c.A1493G;p.Q498R	0.15	P108
chr10	55236367	55236367	T	C	exonic	nonsynonymous SN\ PCDH15	NM_001142772:c.A5012G;p.H1671R		P108
chr11	1.08E+08	1.08E+08	A	G	exonic	nonsynonymous SN\ ATM	NM_0000051:c.A7201G;p.I2401V	0.1	P108
chr12	47463026	47463026	C	T	exonic	synonymous SNV ADCY6	NM_015270:c.G459A;p.T153T		P108
chr12	1.08E+08	1.08E+08	G	A	exonic	synonymous SNV ACACB	NM_001093:c.G687A;p.R229R		P108
chr12	1.31E+08	1.31E+08	A	G	exonic	nonsynonymous SN\ EP400	NM_015409:c.A4472G;p.Q1491R	0.09	P108
chr14	49676469	49676469	T	C	exonic	nonsynonymous SN\ SOS2	NM_006939:c.A2726G;p.H909R	0.19	P108
chr15	26032396	26032396	A	G	exonic	nonsynonymous SN\ HERC2	NM_004667:c.T13937C;p.V4646A	0.01	P108
chr17	26584320	26584320	C	T	exonic	nonsynonymous SN\ NF1	NM_000267:c.C3671T;p.A1224V	0.17	P108
chr17	26687569	26687569	T	C	exonic	synonymous SNV NF1	NM_000267:c.T6036C;p.D2012D		P108
chr17	38500070	38500070	C	A	exonic	nonsynonymous SN\ BRCA1	NM_007297:c.G863T;p.S288I	0	P108
chr19	60038367	60038367	C	G	exonic	nonsynonymous SN\ KIR2DS4	NM_012314:c.C56G;p.A19G	0	P108
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G7328A;p.R2443Q	0.33	P80
chr2	1.7E+08	1.7E+08	C	T	exonic	nonsynonymous SN\ LRP2	NM_004525:c.G7627A;p.V2543I	0.5	P80
chr2	1.7E+08	1.7E+08	C	T	exonic	nonsynonymous SN\ LRP2	NM_004525:c.G2494A;p.V832I	0.04	P80
chr5	1.12E+08	1.12E+08	C	A	exonic	stopgain SNV APC	NM_001127511:c.C4145A;p.S1382X	0.08	P80
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\ SYNE1	NM_033071:c.G5308T;p.V1770L	0.76	P80
chr12	25289552	25289552	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G34A;p.G12S	0	P80
chr13	66699776	66699776	G	A	exonic	synonymous SNV PCDH9	NM_020403:c.C798T;p.P266P		P80
chr17	7517845	7517845	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G422A;p.R141H rs28934576	0.01	P80
chr4	1.57E+08	1.57E+08	G	A	exonic	nonsynonymous SN\ GUCY1A3	NM_001130684:c.G769A;p.V257I	0.45	P81
chr17	7514746	7514746	C	A	exonic	stopgain SNV TP53	NM_001126115:c.G610T;p.E204X	0.02	P81
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C2572T;p.R858X	0.03	P79
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV SYNE1	NM_033071:c.C10173T;p.L3391L		P79
chr9	32624721	32624721	C	T	exonic	nonsynonymous SN\ TAF1L	NM_153809:c.G857A;p.R286H	0.19	P79
chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C421T;p.R141C	0	P79
chr1	11096982	11096982	A	C	exonic	nonsynonymous SN\ MTOR	NM_004958:c.T7280G;p.L2427R	0	P112
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV APC	NM_001127511:c.G3235T;p.E1079X	0	P112
chr6	1.53E+08	1.53E+08	G	T	exonic	synonymous SNV SYNE1	NM_033071:c.C1878A;p.G626G		P112
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\ THBS2	NM_003247:c.G520A;p.A174T	0.5	P112
chr12	25269828	25269828	G	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.C437T;p.A146V	0	P112
chr17	7518928	7518928	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G250A;p.V84M	0	P112
chr2	1.16E+08	1.16E+08	C	G	exonic	synonymous SNV DPP10	NM_001004360:c.C516G;p.V172V		P15
chr5	82872193	82872193	C	A	exonic	nonsynonymous SN\ VCAN	NM_001164097:c.C4654A;p.P1552T	0	P15
chr5	1.38E+08	1.38E+08	C	A	exonic	nonsynonymous SN\ CTNNA1	NM_001903:c.C2353A;p.L785I	0.01	P15
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SN\ PCDHB6	NM_018939:c.G1591A;p.A531T	0	P15
chr6	1.12E+08	1.12E+08	T	G	exonic	nonsynonymous SN\ FYN	NM_153047:c.A1403C;p.N468T	1	P15
chr12	25289548	25289548	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G38A;p.G13D rs112445441	0	P15
chr18	6938443	6938443	T	C	exonic	nonsynonymous SN\ LAMA1	NM_005559:c.A8669G;p.Q2890R	0.24	P15
chr7	91497179	91497179	G	C	exonic	nonsynonymous SN\ AKAP9	NM_005751:c.G4183C;p.D1395H	0.1	P16
chr16	60492732	60492732	G	T	exonic	synonymous SNV CDH8	NM_001796:c.C399A;p.T133T		P16
chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G128A;p.R43H rs28934578	0	P16
chr1	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SN\ FLG	NM_002016:c.G9748A;p.G3250S	0.2	P13
chr1	1.51E+08	1.51E+08	G	C	exonic	nonsynonymous SN\ FLG	NM_002016:c.C7694G;p.S2565C	0.02	P13
chr1	1.57E+08	1.57E+08	T	G	exonic	nonsynonymous SN\ SPTA1	NM_003126:c.A5077C;p.K1693Q rs857725	0.42	P13
chr1	1.58E+08	1.58E+08	T	G	exonic	nonsynonymous SN\ ATP1A4	NM_144699:c.T1622G;p.M541R rs16831482	0.28	P13
chr1	1.84E+08	1.84E+08	C	G	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.C15732G;p.H5244Q rs75161007	0.84	P13
chr2	2.05E+08	2.05E+08	G	A	exonic	synonymous SNV ICOS	NM_012092:c.G591A;p.V197V rs55655222		P13
chr2	2.12E+08	2.12E+08	T	C	exonic	synonymous SNV ERBB4	NM_001042599:c.A3147G;p.V1048 rs3748962		P13
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV COL6A3	NM_057166:c.G6276A;p.V2092V rs115757876		P13
chr3	41255831	41255831	C	T	exonic	synonymous SNV CTNNB1	NM_001098209:c.C2340T;p.D780C rs2293303		P13
chr3	1.44E+08	1.44E+08	A	G	exonic	synonymous SNV ATR	NM_001184:c.T5208C;p.Y1736Y rs2227931		P13

chr3	1.44E+08	1.44E+08	A	G	exonic	synonymous SNV	ATR	NM_001184:c.T1815C;p.D605D	rs2227929	P13
chr3	1.44E+08	1.44E+08	A	T	exonic	synonymous SNV	ATR	NM_001184:c.T1776A;p.G592G	rs2227930	P13
chr3	1.44E+08	1.44E+08	A	G	exonic	nonsynonymous SNV	ATR	NM_001184:c.T632C;p.M211T	rs2227928	0.15 P13
chr4	25028381	25028381	T	C	exonic	synonymous SNV	ANAPC4	NM_013367:c.T2121C;p.F707F	rs9174	P13
chr4	25029006	25029006	G	T	exonic	synonymous SNV	ANAPC4	NM_013367:c.G2331T;p.S777S	rs3214036	P13
chr4	1.27E+08	1.27E+08	T	C	exonic	synonymous SNV	FAT4	NM_024582:c.T5883C;p.S1961S	rs117016099	P13
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G8476A;p.D2826N	rs12508222	1 P13
chr4	1.27E+08	1.27E+08	G	A	exonic	synonymous SNV	FAT4	NM_024582:c.G12813A;p.V4271V	rs6824160	P13
chr4	1.55E+08	1.55E+08	C	T	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.G4783A;p.E1595K	rs28561984	1 P13
chr4	1.55E+08	1.55E+08	A	G	exonic	synonymous SNV	DCHS2	NM_017639:c.T4740C;p.D1580D	rs17031387	P13
chr4	1.55E+08	1.55E+08	G	C	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.C4439G;p.T1480R	rs17031394	0.55 P13
chr5	7855363	7855363	C	T	exonic	synonymous SNV	ADCY2	NM_020546:c.C2661T;p.C887C	rs2290910	P13
chr5	24545524	24545524	G	C	exonic	synonymous SNV	CDH10	NM_006727:c.C1164G;p.S388S		P13
chr5	27024085	27024085	G	A	exonic	nonsynonymous SNV	CDH9	NM_016279:c.C113T;p.A38V	rs2288466	0.28 P13
chr5	27024181	27024181	T	C	exonic	nonsynonymous SNV	CDH9	NM_016279:c.A17G;p.Y6C	rs2288467	0.08 P13
chr5	82851164	82851164	G	A	exonic	nonsynonymous SNV	VCAN	NM_001164098:c.G1283A;p.G428T	rs2287926	0 P13
chr5	82871531	82871531	C	T	exonic	nonsynonymous SNV	VCAN	NM_001164097:c.C3992T;p.T1331I		0 P13
chr5	1.12E+08	1.12E+08	T	C	exonic	synonymous SNV	APC	NM_001127511:c.T1404C;p.Y468Y	rs2229992	P13
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SNV	PCDHA1	NM_018900:c.A2195G;p.Y732C	rs2240696	1 P13
chr5	1.4E+08	1.4E+08	G	T	exonic	nonsynonymous SNV	PCDHA1	NM_018900:c.G2276T;p.C759F	rs2240695	0 P13
chr5	1.4E+08	1.4E+08	T	G	exonic	synonymous SNV	PCDHA4	NM_018907:c.T1611G;p.A537A	rs2337987	P13
chr5	1.4E+08	1.4E+08	A	G	exonic	synonymous SNV	PCDHA4	NM_018907:c.A1629G;p.P543P	rs2879086	P13
chr5	1.4E+08	1.4E+08	G	C	exonic	synonymous SNV	PCDHA4	NM_018907:c.G1803C;p.S601S	rs2879087	P13
chr5	1.4E+08	1.4E+08	A	C	exonic	nonsynonymous SNV	PCDHA6	NM_018909:c.A1208C;p.N403T	rs3733706	0.01 P13
chr5	1.4E+08	1.4E+08	T	G	exonic	synonymous SNV	PCDHA6	NM_018909:c.T1791G;p.V597V	rs7710794	P13
chr5	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SNV	FAT2	NM_001447:c.G4711A;p.G1571S	rs10044879	0.1 P13
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	FAT2	NM_001447:c.C3491T;p.P1164L	rs2304053	0.02 P13
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C3375T;p.I1125I	rs2304054	P13
chr5	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SNV	FAT2	NM_001447:c.G3010A;p.G1004S	rs3734055	0.63 P13
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C2794T;p.L932L	rs10085060	P13
chr5	1.51E+08	1.51E+08	A	G	exonic	synonymous SNV	FAT2	NM_001447:c.T2631C;p.V877V	rs3734057	P13
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV	FAT2	NM_001447:c.G2562A;p.R854R	rs3734058	P13
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C2361T;p.I787I	rs3734059	P13
chr5	1.51E+08	1.51E+08	A	G	exonic	nonsynonymous SNV	FAT2	NM_001447:c.T2057C;p.F686S	rs9324700	0.87 P13
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	FAT2	NM_001447:c.C1720T;p.R574C	rs1432862	0.08 P13
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C1527T;p.P509P	rs1465690	P13
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV	FAT2	NM_001447:c.G774A;p.S258S	rs3734060	P13
chr5	1.69E+08	1.69E+08	C	A	exonic	synonymous SNV	DOCK2	NM_004946:c.C1212A;p.T404T	rs2112703	P13
chr6	12404241	12404241	G	T	exonic	nonsynonymous SNV	EDN1	NM_001168319:c.G591T;p.K197N	rs5370	0.02 P13
chr6	1.3E+08	1.3E+08	A	G	exonic	synonymous SNV	LAMA2	NM_000426:c.A2799G;p.Q933Q	rs1027199	P13
chr6	1.3E+08	1.3E+08	C	T	exonic	nonsynonymous SNV	LAMA2	NM_001079823:c.C7748T;p.A2583	rs6569605	0.6 P13
chr6	1.3E+08	1.3E+08	G	C	exonic	synonymous SNV	LAMA2	NM_001079823:c.G7818C;p.V260F	rs6569606	P13
chr6	1.53E+08	1.53E+08	C	G	exonic	synonymous SNV	SYNE1	NM_033071:c.G13848C;p.L4616L	rs3734365	P13
chr7	47935452	47935452	C	A	exonic	nonsynonymous SNV	PKD1L1	NM_138295:c.G934T;p.V312F	rs2686817	0 P13
chr7	93891587	93891587	C	A	exonic	nonsynonymous SNV	COL1A2	NM_000089:c.C2569A;p.P857T	rs1800248	0.17 P13
chr7	93894285	93894285	C	T	exonic	synonymous SNV	COL1A2	NM_000089:c.C3135T;p.G1045G	rs1800248	P13
chr7	1E+08	1E+08	C	T	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.C10994T;p.P3665L		P13
chr7	1.03E+08	1.03E+08	T	C	exonic	synonymous SNV	RELN	NM_005045:c.A1776G;p.E592E	rs2072403	P13
chr7	1.52E+08	1.52E+08	C	T	exonic	synonymous SNV	MLL3	NM_170606:c.G8040A;p.Q2680Q	rs10252263	P13
chr8	41910669	41910669	A	C	exonic	stopgain SNV	MYST3	NM_006766:c.T4226G;p.L1409X		0.42 P13
chr9	1.23E+08	1.23E+08	C	T	exonic	nonsynonymous SNV	TRAF1	NM_001190947:c.G218A;p.R73H		0.2 P13
chr10	95269496	95269496	A	T	exonic	nonsynonymous SNV	CEP55	NM_001127182:c.A1133T;p.H378L	rs2293277	0.13 P13
chr10	1.16E+08	1.16E+08	T	A	exonic	nonsynonymous SNV	C10orf81	NM_001193435:c.T205A;p.F69I	rs41292632	0.16 P13

chr10	1.16E+08	1.16E+08	T	C	exonic	synonymous SNV	C10orf81	NM_001193435:c.T759C:p.A253A	rs3750901	P13
chr10	1.16E+08	1.16E+08	T	C	exonic	synonymous SNV	C10orf81	NM_001193435:c.T972C:p.A324A	rs11196483	P13
chr11	35174945	35174945	G	T	exonic	nonsynonymous SNV	CD44	NM_000610:c.G744T:p.L248F		0.29 P13
chr11	1.06E+08	1.06E+08	G	A	exonic	synonymous SNV	GUCY1A2	NM_000855:c.C2169T:p.G723G		P13
chr11	1.19E+08	1.19E+08	G	C	exonic	nonsynonymous SNV	CBL	NM_005188:c.G1760C:p.G587A		0.36 P13
chr12	6036359	6036359	C	T	exonic	nonsynonymous SNV	VWF	NM_000552:c.G1870A:p.G624S		1 P13
chr12	6037457	6037457	A	G	exonic	synonymous SNV	VWF	NM_000552:c.T1548C:p.Y516Y	rs1800379	P13
chr12	7179223	7179223	C	T	exonic	synonymous SNV	CLSTN3	NM_014718:c.C417T:p.N139N	rs34933247	P13
chr12	25254044	25254044	A	G	exonic	synonymous SNV	KRAS	NM_004985:c.T519C:p.D173D	rs1137282	P13
chr12	46812979	46812979	G	A	exonic	nonsynonymous SNV	PFKM	NM_001166688:c.G299A:p.R100Q	rs2228500	0.42 P13
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C525T:p.S175S	rs2878960	P13
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C6204T:p.H2068H	rs3742023	P13
chr12	23907297	23907297	G	T	exonic	nonsynonymous SNV	PARP4	NM_006437:c.C3982A:p.P1328T	rs1050112	0.64 P13
chr13	23907441	23907441	C	G	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G3838C:p.G1280R	rs13428	0.09 P13
chr13	23907485	23907485	C	G	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G3794C:p.G1265A	rs1050110	1 P13
chr13	23927295	23927295	C	T	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G2618A:p.S873N	rs7140044	0.53 P13
chr13	23950261	23950261	C	T	exonic	synonymous SNV	PARP4	NM_006437:c.G1602A:p.S534S	rs4770696	P13
chr13	23973859	23973859	C	T	exonic	synonymous SNV	PARP4	NM_006437:c.G246A:p.R82R	rs1539096	P13
chr14	90483547	90483547	G	A	exonic	synonymous SNV	RPS6KA5	NM_004755:c.C495T:p.L165L	rs56369401	P13
chr17	3595963	3595963	G	A	exonic	synonymous SNV	ITGAE	NM_002208:c.C2163T:p.R721R	rs1183610	P13
chr17	3603908	3603908	C	T	exonic	nonsynonymous SNV	ITGAE	NM_002208:c.G1445A:p.R482Q	rs2272606	0.02 P13
chr17	3603924	3603924	T	C	exonic	nonsynonymous SNV	ITGAE	NM_002208:c.A1429G:p.I477V	rs220479	1 P13
chr17	7519267	7519267	G	C	exonic	nonsynonymous SNV	TP53	NM_000546:c.C388G:p.L130V		0 P13
chr17	10236901	10236901	T	C	exonic	nonsynonymous SNV	MYH8	NM_002472:c.A5435G:p.K1812R		0.03 P13
chr17	26532901	26532901	G	A	exonic	synonymous SNV	NF1	NM_000267:c.G702A:p.L234L	rs1801052	P13
chr17	38476620	38476620	T	C	exonic	nonsynonymous SNV	BRCA1	NM_007297:c.A4696G:p.S1566G	rs1799966	0.1 P13
chr17	38487996	38487996	A	G	exonic	synonymous SNV	BRCA1	NM_007297:c.T4167C:p.S1389S	rs1060915	P13
chr17	38497526	38497526	T	C	exonic	nonsynonymous SNV	BRCA1	NM_007297:c.A3407G:p.K1136R	rs16942	1 P13
chr17	38498462	38498462	G	A	exonic	nonsynonymous SNV	BRCA1	NM_007297:c.C2471T:p.P824L	rs799917	1 P13
chr17	38498763	38498763	A	G	exonic	synonymous SNV	BRCA1	NM_007297:c.T2170C:p.L724L	rs16940	P13
chr17	38498992	38498992	G	A	exonic	synonymous SNV	BRCA1	NM_007297:c.C1941T:p.S647S	rs1799949	P13
chr17	43090974	43090974	G	A	exonic	synonymous SNV	KPNB1	NM_002265:c.G585A:p.T195T	rs1136613	P13
chr17	43105467	43105467	T	C	exonic	synonymous SNV	KPNB1	NM_002265:c.T1632C:p.Y544Y	rs1136614	P13
chr17	71256626	71256626	G	A	exonic	nonsynonymous SNV	ITGB4	NM_001005619:c.G3221A:p.R1074H		0 P13
chr17	75916752	75916752	C	A	exonic	nonsynonymous SNV	RNF213	NM_020914:c.C3544A:p.Q1182K	rs8082521	P13
chr18	6989628	6989628	T	C	exonic	synonymous SNV	LAMA1	NM_005559:c.A4479G:p.S1493S	rs625106	P13
chr18	7007322	7007322	A	G	exonic	synonymous SNV	LAMA1	NM_005559:c.T2763C:p.C921C	rs539713	P13
chr18	7013371	7013371	A	G	exonic	synonymous SNV	LAMA1	NM_005559:c.T2493C:p.C831C	rs684634	P13
chr18	7023037	7023037	G	A	exonic	synonymous SNV	LAMA1	NM_005559:c.C2109T:p.A703A	rs621993	P13
chr18	7024508	7024508	T	G	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.A2021C:p.N674T	rs566655	0.97 P13
chr18	59321701	59321701	T	C	exonic	synonymous SNV	SERPINB5	NM_002639:c.T894C:p.S298S	rs1455556	P13
chr18	59321762	59321762	A	G	exonic	nonsynonymous SNV	SERPINB5	NM_002639:c.A955G:p.I319V	rs1455555	P13
chr18	61662156	61662156	T	C	exonic	synonymous SNV	CDH7	NM_004361:c.T1110C:p.D370D	rs2306675	P13
chr19	43640609	43640609	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C2004T:p.D668D	rs78835441	P13
chr19	48103070	48103070	C	G	exonic	nonsynonymous SNV	PSG6	NM_001031850:c.G1084C:p.E362C	rs74994349	0.96 P13
chr19	48211110	48211110	A	G	exonic	nonsynonymous SNV	PSG11	NM_001113410:c.T596C:p.I199T	rs111493043	0.4 P13
chr19	48267768	48267768	G	A	exonic	synonymous SNV	PSG2	NM_031246:c.C888T:p.S296S	rs1064935	P13
chr19	48271519	48271519	T	A	exonic	nonsynonymous SNV	PSG2	NM_031246:c.A536T:p.Q179L	rs1058086	1 P13
chr19	48465414	48465414	G	A	exonic	nonsynonymous SNV	PSG9	NM_002784:c.C10T:p.L4F	rs73037706	0.06 P13
chr19	60041076	60041076	G	A	exonic	nonsynonymous SNV	KIR2DS4	NM_012314:c.G304A:p.G102S	rs115093949	0.07 P13
chr19	61116344	61116344	G	A	exonic	synonymous SNV	NLRP13	NM_176810:c.C651T:p.R217R	rs731338	P13
chr19	61135331	61135331	C	T	exonic	synonymous SNV	NLRP13	NM_176810:c.G159A:p.P53P	rs12610617	P13
chr20	23369101	23369101	G	A	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.G197A:p.R66K	rs17757442	0.58 P13

chr20	23372638	23372638	C	T	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.C287T;p.T96M	rs3746737	0.01	P13
chr22	21768191	21768191	C	T	exonic	synonymous SNV	GNAZ	NM_002073:c.C309T;p.D103D	rs1805058		P13
chr22	39877954	39877954	A	G	exonic	nonsynonymous SNV	EP300	NM_001429:c.A2989G;p.I997V	rs20551	0.29	P13
chr22	39880985	39880985	T	A	exonic	synonymous SNV	EP300	NM_001429:c.T3183A;p.T1061T	rs20552		P13
chrX	19343227	19343227	C	T	exonic	synonymous SNV	MAP3K15	NM_001001671:c.G1509A;p.S503S	rs56125741		P13
chrX	1.52E+08	1.52E+08	G	C	exonic	synonymous SNV	ATP2B3	NM_001001344:c.G2592C;p.V864V	rs2269415		P13
chr17	7519109	7519109	G	T	exonic	stopgain SNV	TP53	NM_001126115:c.C150A;p.C50X		0.01	P14
chr20	44115106	44115106	C	T	exonic	synonymous SNV	SLC12A5	NM_001134771:c.C2550T;p.D850D			P14
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SNV	PCDHB14	NM_018934:c.G2369A;p.R790Q		0.15	P11
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A;p.G12D		0	P11
chr13	66700250	66700250	C	A	exonic	nonsynonymous SNV	PCDH9	NM_020403:c.G324T;p.E108D		0.16	P11
chr17	7517863	7517863	C	G	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G404C;p.R135P		0	P11
chrX	18879229	18879229	G	A	exonic	nonsynonymous SNV	PHKA2	NM_000292:c.C368T;p.T123M		0.04	P11
chrX	1.38E+08	1.38E+08	C	T	exonic	nonsynonymous SNV	FGF13	NM_001139500:c.G61A;p.A21T		0	P11
chr1	1.57E+08	1.57E+08	C	A	exonic	nonsynonymous SNV	SPTA1	NM_003126:c.G6093T;p.L2031F		0.01	P12
chr1	1.58E+08	1.58E+08	A	G	exonic	synonymous SNV	ATP1A4	NM_144699:c.A69G;p.K23K	rs77332724		P12
chr1	1.58E+08	1.58E+08	G	A	exonic	nonsynonymous SNV	ATP1A4	NM_144699:c.G788A;p.R263Q	rs76528638	0.11	P12
chr1	1.58E+08	1.58E+08	C	T	exonic	synonymous SNV	ATP1A4	NM_144699:c.C1038T;p.A346A	rs11265338		P12
chr1	2.14E+08	2.14E+08	C	T	exonic	nonsynonymous SNV	USH2A	NM_206933:c.G15547A;p.A5183T		0.1	P12
chr1	2.14E+08	2.14E+08	A	C	exonic	nonsynonymous SNV	USH2A	NM_007123:c.T3364G;p.S1122A		0.27	P12
chr1	2.15E+08	2.15E+08	G	A	exonic	synonymous SNV	USH2A	NM_007123:c.C1419T;p.T473T	rs1805050		P12
chr1	2.46E+08	2.46E+08	T	C	exonic	synonymous SNV	OR2M3	NM_001004689:c.T423C;p.C141C	rs12562957		P12
chr1	2.47E+08	2.47E+08	C	T	exonic	synonymous SNV	OR2M7	NM_001004691:c.G855A;p.L285L	rs4451579		P12
chr2	1.16E+08	1.16E+08	A	T	exonic	synonymous SNV	DPP10	NM_001178037:c.A27T;p.G9G			P12
chr2	1.7E+08	1.7E+08	A	G	exonic	synonymous SNV	LRP2	NM_004525:c.T4875C;p.C1625C	rs2229267		P12
chr2	1.7E+08	1.7E+08	T	C	exonic	synonymous SNV	LRP2	NM_004525:c.A3660G;p.A1220A	rs831042		P12
chr2	1.7E+08	1.7E+08	T	C	exonic	synonymous SNV	LRP2	NM_004525:c.A3069G;p.T1023T	rs831043		P12
chr2	1.7E+08	1.7E+08	G	T	exonic	synonymous SNV	LRP2	NM_004525:c.C3054A;p.T1018T	rs2075249		P12
chr2	1.7E+08	1.7E+08	T	C	exonic	synonymous SNV	LRP2	NM_004525:c.A2460G;p.T820T	rs2241190		P12
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C639T;p.D213D	rs2229266		P12
chr2	1.9E+08	1.9E+08	G	A	exonic	nonsynonymous SNV	COL3A1	NM_000090:c.G187A;p.D63N		0	P12
chr2	1.9E+08	1.9E+08	G	A	exonic	nonsynonymous SNV	COL3A1	NM_000090:c.G2092A;p.A698T	rs1800255	0.17	P12
chr2	2.38E+08	2.38E+08	C	A	exonic	synonymous SNV	COL6A3	NM_057166:c.G2712T;p.G904G	rs2645774		P12
chr2	2.38E+08	2.38E+08	A	G	exonic	synonymous SNV	COL6A3	NM_057166:c.T2490C;p.I830I	rs2646260		P12
chr3	8750661	8750661	C	T	exonic	synonymous SNV	CAV3	NM_001234:c.C99T;p.N33N	rs1008642		P12
chr3	10388601	10388601	G	A	exonic	synonymous SNV	ATP2B2	NM_001683:c.C1416T;p.G472G	rs2289273		P12
chr3	10388715	10388715	G	A	exonic	synonymous SNV	ATP2B2	NM_001683:c.C1302T;p.N434N	rs2289274		P12
chr3	13871285	13871285	C	T	exonic	synonymous SNV	WNT7A	NM_004625:c.G315A;p.A105A	rs12639607		P12
chr3	58092764	58092764	G	A	exonic	synonymous SNV	FLNB	NM_001164317:c.G4461A;p.P1487	rs60183346		P12
chr3	1.25E+08	1.25E+08	T	C	splicing		MYLK		rs6438804		P12
chr3	1.25E+08	1.25E+08	C	T	exonic;splicing	nonsynonymous SNV	MYLK	NM_053031:c.G88A;p.D30N		0.23	P12
chr3	1.25E+08	1.25E+08	A	G	exonic	synonymous SNV	MYLK	NM_053026:c.T4635C;p.N1545N	rs820463		P12
chr3	1.42E+08	1.42E+08	C	T	exonic	synonymous SNV	CLSTN2	NM_022131:c.C2283T;p.S761S	rs11714465		P12
chr4	25026207	25026207	T	A	exonic	synonymous SNV	ANAPC4	NM_013367:c.T1848A;p.I616I	rs3214035		P12
chr4	1.26E+08	1.26E+08	A	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.A1358T;p.Q453L	rs6847454		P12
chr4	1.26E+08	1.26E+08	T	C	exonic	synonymous SNV	FAT4	NM_024582:c.T2944C;p.L982L	rs2940779		P12
chr4	1.26E+08	1.26E+08	C	T	exonic	synonymous SNV	FAT4	NM_024582:c.C4305T;p.I1435I	rs2710555		P12
chr4	1.55E+08	1.55E+08	G	A	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.C3614T;p.S1205L	rs11935573	0.01	P12
chr4	1.55E+08	1.55E+08	C	A	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.G3419T;p.G1140V		0.02	P12
chr4	1.55E+08	1.55E+08	A	G	exonic	synonymous SNV	DCHS2	NM_001142552:c.T2556C;p.G852C	rs6858157		P12
chr4	1.56E+08	1.56E+08	T	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.A1858G;p.T620A	rs72731014	0.58	P12
chr4	1.56E+08	1.56E+08	G	A	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.C1841T;p.A614V	rs55810732	0.35	P12
chr4	1.56E+08	1.56E+08	G	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.C1777G;p.Q593f	rs72731016	1	P12

chr4	1.56E+08	1.56E+08	C	T	exonic	nonsynonymous SN\	DCHS2	NM_001142552:c.G44A;p.R15Q	rs13149269	0.49	P12
chr5	1134702	1134702	A	G	exonic	synonymous SNV	SLC12A7	NM_006598:c.T1287C;p.P429P	rs6865765		P12
chr5	7819894	7819894	G	A	exonic	nonsynonymous SN\	ADCY2	NM_020546:c.G2189A;p.R730H			P12
chr5	82821950	82821950	T	C	exonic	synonymous SNV	VCAN	NM_001126336:c.T348C;p.T116T	rs12332199		P12
chr5	82825403	82825403	A	G	exonic	synonymous SNV	VCAN	NM_001126336:c.A645G;p.V215V	rs4470745		P12
chr5	82843752	82843752	G	T	exonic	nonsynonymous SN\	VCAN	NM_001126336:c.G823T;p.A275S		0.02	P12
chr5	82868901	82868901	G	A	exonic	synonymous SNV	VCAN	NM_001164097:c.G1362A;p.Q454C	rs2548541		P12
chr5	82869125	82869125	A	G	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.A1586G;p.K529F	rs309559	0	P12
chr5	82869147	82869147	A	G	exonic	synonymous SNV	VCAN	NM_001164097:c.A1608G;p.T536T	rs16900528		P12
chr5	82870386	82870386	T	C	exonic	synonymous SNV	VCAN	NM_001164097:c.T2847C;p.G949C	rs309557		P12
chr5	82871301	82871301	A	G	exonic	synonymous SNV	VCAN	NM_001164097:c.A3762G;p.R1254	rs160279		P12
chr5	82871480	82871480	T	A	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.T3941A;p.F1314	rs160278	0	P12
chr5	82873141	82873141	G	A	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.G5602A;p.G1868S		0	P12
chr5	82877146	82877146	C	T	exonic	synonymous SNV	VCAN	NM_001126336:c.C1077T;p.N359N			P12
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SN\	PCDHA10	NM_018901:c.A1915G;p.T639A	rs630162		P12
chr5	1.4E+08	1.4E+08	T	C	exonic	nonsynonymous SN\	PCDHA12	NM_018903:c.T2351C;p.L784S			P12
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV	FAT2	NM_001447:c.G10350A;p.L3450L	rs36092108		P12
chr5	1.51E+08	1.51E+08	C	G	exonic	nonsynonymous SN\	FAT2	NM_001447:c.G4960C;p.D1654H		0.05	P12
chr5	1.51E+08	1.51E+08	C	T	exonic	nonsynonymous SN\	FAT2	NM_001447:c.G4384A;p.V1462M	rs2278371	0.18	P12
chr5	1.69E+08	1.69E+08	T	C	exonic	synonymous SNV	DOCK2	NM_004946:c.T4896C;p.R1632R	rs1045168		P12
chr6	90699079	90699079	G	A	exonic	synonymous SNV	BACH2	NM_001170794:c.C2295T;p.N765N	rs3798789		P12
chr6	90717040	90717040	T	C	exonic	synonymous SNV	BACH2	NM_001170794:c.A1506G;p.V502V	rs9451298		P12
chr6	1.3E+08	1.3E+08	G	A	exonic;splicing	nonsynonymous SN\	LAMA2	NM_000426:c.G3412A;p.V1138M	rs2306942	0.09	P12
chr6	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV	LAMA2	NM_001079823:c.G7833A;p.P2611	rs2229850		P12
chr6	1.3E+08	1.3E+08	A	G	exonic	nonsynonymous SN\	LAMA2	NM_001079823:c.A7894G;p.T2632	rs2244008	0.24	P12
chr6	1.46E+08	1.46E+08	C	T	exonic	synonymous SNV	GRM1	NM_000838:c.C624T;p.D208D	rs112670841		P12
chr6	1.53E+08	1.53E+08	T	C	exonic	synonymous SNV	SYNE1	NM_133650:c.A1479G;p.E493E	rs2747662		P12
chr6	1.53E+08	1.53E+08	C	G	exonic	nonsynonymous SN\	SYNE1	NM_133650:c.G1454C;p.G485A	rs2252755	0.52	P12
chr6	1.53E+08	1.53E+08	C	T	exonic	synonymous SNV	SYNE1	NM_133650:c.G1311A;p.P437P	rs2252748		P12
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.C16064T;p.T5355M	rs2306914	0.08	P12
chr6	1.53E+08	1.53E+08	G	C	exonic	synonymous SNV	SYNE1	NM_033071:c.C15384G;p.A5128A	rs9383987		P12
chr6	1.53E+08	1.53E+08	A	G	exonic	synonymous SNV	SYNE1	NM_182961:c.T10866C;p.S3622S	rs9397102		P12
chr6	1.53E+08	1.53E+08	G	T	exonic	synonymous SNV	SYNE1	NM_033071:c.C10212A;p.G3404G	rs4407724		P12
chr6	1.53E+08	1.53E+08	T	C	exonic	synonymous SNV	SYNE1	NM_033071:c.A9516G;p.E3172E	rs6913579		P12
chr6	1.69E+08	1.69E+08	A	G	exonic	synonymous SNV	THBS2	NM_003247:c.T3360C;p.T1120T	rs1132742		P12
chr6	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	THBS2	NM_003247:c.C3075T;p.A1025A	rs9505895		P12
chr7	93879873	93879873	A	C	exonic	synonymous SNV	COL1A2	NM_000089:c.A1446C;p.P482P	rs412777		P12
chr7	1.03E+08	1.03E+08	A	G	exonic	synonymous SNV	RELN	NM_005045:c.T6702C;p.C2234C	rs2075043		P12
chr7	1.52E+08	1.52E+08	G	A	exonic	synonymous SNV	MLL3	NM_170606:c.C6729T;p.L2243L	rs75510609		P12
chr8	41953907	41953907	T	G	exonic	nonsynonymous SN\	MYST3	NM_006766:c.A1139C;p.E380A		0.14	P12
chr8	41953908	41953908	C	A	exonic	stopgain SNV	MYST3	NM_006766:c.G1138T;p.E380X		0.14	P12
chr9	21156077	21156077	T	C	exonic	nonsynonymous SN\	IFNA21	NM_002175:c.A535G;p.K179E	rs3750478	0	P12
chr9	21294803	21294803	G	A	exonic	synonymous SNV	IFNA5	NM_002169:c.C453T;p.T151T	rs10757212		P12
chr9	21399584	21399584	G	A	exonic	nonsynonymous SN\	IFNA8	NM_002170:c.G409A;p.E137K	rs3739630	0.19	P12
chr9	32620472	32620472	T	C	exonic	synonymous SNV	TAF1L	NM_153809:c.A5106G;p.K1702K	rs10758145		P12
chr9	32621369	32621369	C	T	exonic	synonymous SNV	TAF1L	NM_153809:c.G4209A;p.T1403T	rs10971047		P12
chr9	1.17E+08	1.17E+08	C	G	exonic	nonsynonymous SN\	TNC	NM_002160:c.G6022C;p.E2008Q	rs13321	0.64	P12
chr9	1.17E+08	1.17E+08	T	C	exonic	synonymous SNV	TNC	NM_002160:c.A5673G;p.R1891R	rs12347433		P12
chr9	1.17E+08	1.17E+08	C	T	exonic	nonsynonymous SN\	TNC	NM_002160:c.G3197A;p.R1066H	rs45602433	0.12	P12
chr9	1.17E+08	1.17E+08	T	C	exonic	synonymous SNV	TNC	NM_002160:c.A696G;p.V232V	rs2992147		P12
chr9	1.17E+08	1.17E+08	C	T	exonic	synonymous SNV	TNC	NM_002160:c.G276A;p.V92V	rs944510		P12
chr9	1.23E+08	1.23E+08	G	A	exonic	synonymous SNV	TRAF1	NM_001190947:c.C144T;p.S48S	rs3747841		P12
chr9	1.24E+08	1.24E+08	A	C	exonic	synonymous SNV	OR1L1	NM_001005236:c.A513C;p.S171S	rs70156		P12

chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C4905T;p.P1635P			P12
chr10	28141461	28141461	C	A	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.G3121T;p.A1041S	rs3737184	0.04	P12
chr10	28300157	28300157	A	G	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.T1028C;p.I343T	rs4405206	0.72	P12
chr10	35969137	35969137	G	A	exonic	synonymous SNV	FZD8	NM_031866:c.C1227T;p.A409A	rs74989785		P12
chr10	35969356	35969356	C	T	exonic	synonymous SNV	FZD8	NM_031866:c.G1008A;p.E336E	rs73270587		P12
chr10	55252206	55252206	A	T	exonic	synonymous SNV	PCDH15	NM_001142767:c.T5166A;p.P1722	rs58461416		P12
chr10	75343107	75343107	T	C	exonic	nonsynonymous SNV	PLAU	NM_001145031:c.T371C;p.L124P	rs2227564	0.06	P12
chr10	97131477	97131477	G	A	exonic	synonymous SNV	SORBS1	NM_001034957:c.C978T;p.Y326Y	rs61739184		P12
chr10	97164342	97164342	T	C	exonic	nonsynonymous SNV	SORBS1	NM_001034954:c.A709G;p.T237A	rs2281939	0	P12
chr10	97164527	97164527	C	A	exonic	nonsynonymous SNV	SORBS1	NM_001034954:c.G524T;p.G175V	rs7081076	0	P12
chr10	1.06E+08	1.06E+08	T	C	exonic	synonymous SNV	COL17A1	NM_000494:c.A2904G;p.P968P	rs2274100		P12
chr10	1.06E+08	1.06E+08	G	T	exonic	synonymous SNV	COL17A1	NM_000494:c.C2883A;p.P961P	rs2296219		P12
chr10	1.06E+08	1.06E+08	G	A	exonic	synonymous SNV	COL17A1	NM_000494:c.C2595T;p.R865R	rs4918079		P12
chr10	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SNV	CTBP2	NM_022802:c.G700A;p.V234M	rs3781409	0	P12
chr10	1.29E+08	1.29E+08	T	C	exonic	synonymous SNV	DOCK1	NM_001380:c.T4482C;p.I1494I	rs2229600		P12
chr11	1.08E+08	1.08E+08	A	G	exonic	nonsynonymous SNV	ATM	NM_000051:c.A4949G;p.N1650S	rs55870064	1	P12
chr11	1.24E+08	1.24E+08	A	G	exonic	synonymous SNV	OR8B8	NM_012378:c.T360C;p.Y120Y	rs4296049		P12
chr12	6100741	6100741	C	T	exonic	nonsynonymous SNV	VWF	NM_000552:c.G80A;p.R27H		0	P12
chr12	25289548	25289548	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G38A;p.G13D	rs112445441	0	P12
chr12	46654243	46654243	C	T	exonic	nonsynonymous SNV	COL2A1	NM_033150:c.G4006A;p.G1336S	rs2070739	0.01	P12
chr12	46787428	46787428	A	T	exonic	nonsynonymous SNV	PFKM	NM_001166686:c.A5T;p.H2L	rs11609399	0	P12
chr12	1.27E+08	1.27E+08	A	G	exonic	nonsynonymous SNV	TMEM132C	NM_001136103:c.A482G;p.H161R	rs11059681		P12
chr12	1.28E+08	1.28E+08	G	A	exonic	synonymous SNV	TMEM132D	NM_133448:c.C1887T;p.I629I	rs60962336		P12
chr12	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	TMEM132D	NM_133448:c.G1758A;p.E586E	rs77363876		P12
chr13	23924577	23924577	C	T	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G2981A;p.R994H		0.6	P12
chr14	31632494	31632494	A	G	exonic	synonymous SNV	ARHGAP5	NM_001030055:c.A2868G;p.E956E			P12
chr15	75131848	75131848	T	A	exonic	synonymous SNV	TSPAN3	NM_001168412:c.A411T;p.V137V	rs11737		P12
chr15	88027951	88027951	C	A	exonic	synonymous SNV	PEX11A	NM_003847:c.G405T;p.L135L	rs7169981		P12
chr16	3973437	3973437	T	C	exonic	nonsynonymous SNV	ADCY9	NM_0011116:c.A2316G;p.I772M	rs2230739	0.14	P12
chr16	4104365	4104365	C	T	exonic	synonymous SNV	ADCY9	NM_0011116:c.G1080A;p.R360R	rs2230738		P12
chr16	23108262	23108262	T	C	exonic	synonymous SNV	SCNN1G	NM_001039:c.T387C;p.Y129Y	rs5734		P12
chr16	23108349	23108349	T	C	exonic	synonymous SNV	SCNN1G	NM_001039:c.T474C;p.I158I	rs5735		P12
chr16	23108424	23108424	C	T	exonic	synonymous SNV	SCNN1G	NM_001039:c.C549T;p.G183G	rs5737		P12
chr16	66537668	66537668	G	T	exonic	nonsynonymous SNV	SLC12A4	NM_001145962:c.C2520A;p.H840Q		0.62	P12
chr17	1525689	1525689	C	T	exonic	synonymous SNV	PRPF8	NM_006445:c.G2847A;p.P949P	rs33965342		P12
chr17	1527679	1527679	G	C	exonic	synonymous SNV	PRPF8	NM_006445:c.C1914G;p.L638L	rs11078565		P12
chr17	1531074	1531074	A	G	exonic	synonymous SNV	PRPF8	NM_006445:c.T891C;p.N297N	rs7503397		P12
chr17	1531880	1531880	A	G	exonic	synonymous SNV	PRPF8	NM_006445:c.T637C;p.L213L	rs11559305		P12
chr17	3570434	3570434	A	T	exonic	nonsynonymous SNV	ITGAE	NM_002208:c.T3249A;p.D1083E		0.04	P12
chr17	3579585	3579585	G	A	exonic	nonsynonymous SNV	ITGAE	NM_002208:c.C2848T;p.R950W	rs1716	0.02	P12
chr17	7520197	7520197	G	C	exonic	nonsynonymous SNV	TP53	NM_000546:c.C215G;p.P72R	rs1042522	0.45	P12
chr17	10483611	10483611	T	C	exonic	synonymous SNV	MYH3	NM_002470:c.A2916G;p.T972T	rs2285472		P12
chr17	10484188	10484188	T	C	exonic	synonymous SNV	MYH3	NM_002470:c.A2532G;p.A844A	rs2285469		P12
chr17	17663744	17663744	G	C	exonic	nonsynonymous SNV	SREBF1	NM_004176:c.C544G;p.Q182E	rs70937018	0.57	P12
chr17	38497799	38497799	T	A	exonic	nonsynonymous SNV	BRCA1	NM_007297:c.A3134T;p.E1045V		0	P12
chr17	69757696	69757696	T	C	exonic	synonymous SNV	TTYH2	NM_032646:c.T957C;p.L319L	rs3897753		P12
chr17	69758061	69758061	C	T	exonic	synonymous SNV	TTYH2	NM_052869:c.C123T;p.T41T	rs7224615		P12
chr17	69760078	69760078	A	G	exonic	synonymous SNV	TTYH2	NM_052869:c.A264G;p.A88A	rs60137033		P12
chr17	69760107	69760107	C	T	exonic	nonsynonymous SNV	TTYH2	NM_052869:c.C293T;p.T98I	rs12600564	0.06	P12
chr17	71262454	71262454	C	G	exonic	synonymous SNV	ITGB4	NM_001005619:c.C4311G;p.P1437	rs8669		P12
chr17	75922502	75922502	T	G	exonic	synonymous SNV	RNF213	NM_020914:c.T4293G;p.T1431T	rs76985739		P12
chr18	6967844	6967844	A	G	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.T6227C;p.I2076T	rs671871	0.67	P12
chr18	49190992	49190992	T	C	exonic	synonymous SNV	DCC	NM_005215:c.T3108C;p.P1036P	rs34395300		P12

chr19	43627120	43627120	A	G	exonic	synonymous SNV	RYR1	NM_000540:c.A594G:p.L198L	rs2229139	P12
chr19	43682296	43682296	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C7209T;p.R2403R	rs78795178	P12
chr19	48067938	48067938	C	A	exonic	nonsynonymous SNV	PSG1	NM_001184825:c.G530T;p.S177I		0 P12
chr19	48400053	48400053	G	A	exonic	synonymous SNV	PSG4	NM_002780:c.C255T;p.D85D	rs77454946	P12
chr19	48463850	48463850	G	T	exonic	nonsynonymous SNV	PSG9	NM_002784:c.C356A;p.T119N		0.06 P12
chr19	48464142	48464142	C	T	splicing		PSG9		rs3746297	P12
chr19	48465372	48465372	G	C	exonic	nonsynonymous SNV	PSG9	NM_002784:c.C52G;p.L18V	rs8101191	0.07 P12
chr19	59938551	59938551	C	T	exonic	synonymous SNV	KIR3DL3	NM_153443:c.C969T;p.H323H	rs78691806	P12
chr19	59986749	59986749	G	C	splicing		KIR2DL1			P12
chr19	60069820	60069820	C	T	exonic	nonsynonymous SNV	KIR3DL2	NM_006737:c.C1190T;p.T397M	rs3745902	0.01 P12
chr20	23372660	23372660	G	C	exonic	synonymous SNV	CSTL1	NM_138283:c.G309C;p.L103L	rs12625959	P12
chrX	31106008	31106008	A	T	exonic;splicing	synonymous SNV	DMD	NM_004015:c.T1020A;p.T340T		P12
chr19	7882024	7882024	G	A	exonic	nonsynonymous SNV	MAP2K7	NM_145185:c.G835A;p.G279S		P17
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G6611A;p.R2204H		P18
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C4294T;p.R1432X		0.04 P18
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_033071:c.C10701T;p.I3567I		P18
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A;p.G12D		0 P18
chr17	7518295	7518295	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G315A;p.M105I		0 P18
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4081T;p.E1361X		0.01 P64
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHA9	NM_014005:c.G1813A;p.A605T		0 P64
chr6	1.52E+08	1.52E+08	G	C	exonic	nonsynonymous SNV	SYNE1	NM_133650:c.C2476G;p.R826G		0 P64
chr17	7519131	7519131	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G128A;p.R43H	rs28934578	0 P64
chr17	7518269	7518269	A	C	exonic	nonsynonymous SNV	TP53	NM_001126115:c.T341G;p.M114R		0 P65
chrX	32777840	32777840	C	A	exonic	stopgain SNV	DMD	NM_000109:c.G88T;p.E30X		0.71 P65
chr7	1.03E+08	1.03E+08	C	T	exonic	synonymous SNV	RELN	NM_005045:c.G4368A;p.G1456G		P66
chr17	7518264	7518264	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C346T;p.R116W		0 P66
chr17	26678983	26678983	G	A	exonic;splicing	nonsynonymous SNV	NF1	NM_000267:c.G5546A;p.R1849Q		0 P66
chrX	32392718	32392718	T	C	exonic	nonsynonymous SNV	DMD	NM_004007:c.A2813G;p.K938R		0.31 P66
chr3	10417702	10417702	C	A	exonic	nonsynonymous SNV	ATP2B2	NM_001001331:c.G716T;p.S239I		0 P67
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G6532A;p.A2178T		0 P67
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SNV	PCDHA8	NM_018911:c.C2197T;p.R733W		0.02 P67
chr7	1.03E+08	1.03E+08	G	T	exonic	nonsynonymous SNV	RELN	NM_005045:c.C4484A;p.T1495K		0 P67
chr12	25271542	25271542	T	G	exonic	nonsynonymous SNV	KRAS	NM_004985:c.A183C;p.Q61H		0.01 P67
chr17	7518263	7518263	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G347A;p.R116Q	rs11540652	0.02 P67
chr1	51678674	51678674	G	C	exonic	nonsynonymous SNV	EPS15	NM_001981:c.C973G;p.P325A		1 P61
chr1	1.84E+08	1.84E+08	C	A	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.C4103A;p.T1368K		0.06 P61
chr2	2.38E+08	2.38E+08	G	A	exonic	synonymous SNV	COL6A3	NM_057166:c.C933T;p.Y311Y	rs114492689	P61
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHA12	NM_018903:c.G1366A;p.A456T		P61
chr12	1.28E+08	1.28E+08	C	T	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.G2345A;p.R782Q		0.06 P61
chr18	46845917	46845917	G	A	exonic	nonsynonymous SNV	SMAD4	NM_005359:c.G1082A;p.R361H		0 P61
chr1	70277638	70277638	C	T	exonic	synonymous SNV	LRRC7	NM_020794:c.C3429T;p.Y1143Y		P62
chr1	2.14E+08	2.14E+08	G	A	exonic	synonymous SNV	USH2A	NM_206933:c.C8319T;p.S2773S	rs56829872	P62
chr5	24523677	24523677	C	A	exonic	nonsynonymous SNV	CDH10	NM_006727:c.G2219T;p.G740V		0 P62
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4135T;p.E1379X		0.16 P62
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA10	NM_018901:c.G1581A;p.L527L		P62
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_015293:c.C6494T;p.A2165V		0.01 P62
chr9	32620670	32620670	A	G	exonic	synonymous SNV	TAF1L	NM_153809:c.T4908C;p.D1636D		P62
chr16	3719605	3719605	C	T	exonic	nonsynonymous SNV	CREBBP	NM_001079846:c.G5330A;p.G1777D		0.02 P62
chr17	7517846	7517846	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C421T;p.R141C		0 P62
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHB3	NM_018937:c.C1023T;p.N341N		P63
chr19	48214917	48214917	T	A	exonic	nonsynonymous SNV	PSG11	NM_001113410:c.A188T;p.Q63L		0 P63
chr1	2.46E+08	2.46E+08	C	T	exonic	nonsynonymous SNV	OR2M2	NM_001004688:c.C806T;p.T269M		0.1 P68
chr2	1.7E+08	1.7E+08	G	T	exonic	nonsynonymous SNV	LRP2	NM_004525:c.C6317A;p.S2106Y		0.02 P68

chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3958T;p.Q1320X	0.07	P68	
chr9	96973183	96973183	G	A	exonic;splicing	stopgain SNV	FANCC	NM_000136:c.C520T;p.R174X	0.13	P68	
chr11	1.08E+08	1.08E+08	G	A	splicing		ATM			P68	
chr19	43668596	43668596	G	A	exonic	nonsynonymous SNV	RYR1	NM_000540:c.G5461A;p.D1821N	0.7	P68	
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G3444A;p.S1148S		P77	
chr5	24523765	24523765	G	A	exonic	nonsynonymous SNV	CDH10	NM_006727:c.C2131T;p.R711W	0.02	P77	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C2572T;p.R858X	0.03	P77	
chr7	93872468	93872468	C	T	exonic	stopgain SNV	COL1A2	NM_000089:c.C454T;p.R152X	0.03	P77	
chr7	1.03E+08	1.03E+08	G	A	exonic	nonsynonymous SNV	RELN	NM_005045:c.C5179T;p.R1727W	0	P77	
chr11	1.08E+08	1.08E+08	A	C	exonic	nonsynonymous SNV	ATM	NM_000051:c.A4783C;p.N1595H	0.42	P77	
chr11	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SNV	ATM	NM_000051:c.G6601A;p.V2201I	0.65	P77	
chr12	25289548	25289548	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G38A;p.G13D	rs112445441	0	P77
chr12	1.29E+08	1.29E+08	G	A	exonic	stopgain SNV	TMEM132D	NM_133448:c.C529T;p.R177X		P77	
chr17	1505577	1505577	C	T	exonic	nonsynonymous SNV	PRPF8	NM_006445:c.G5804A;p.R1935H	0	P77	
chr7	1.13E+08	1.13E+08	T	C	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.A1508G;p.E503G	0.07	P76	
chr17	7519131	7519131	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G128A;p.R43H	rs28934578	0	P76
chr18	46827428	46827428	C	G	exonic	nonsynonymous SNV	SMAD4	NM_005359:c.C14G;p.S5C	0.02	P76	
chr1	46284216	46284216	C	T	exonic	nonsynonymous SNV	PIK3R3	NM_003629:c.G1148A;p.R383H	0	P70	
chr9	1.37E+08	1.37E+08	C	T	exonic	synonymous SNV	COL5A1	NM_000093:c.C825T;p.Y275Y		P70	
chr12	25271542	25271542	T	G	exonic	nonsynonymous SNV	KRAS	NM_004985:c.A183C;p.Q61H	0.01	P70	
chr2	1.7E+08	1.7E+08	C	T	exonic	synonymous SNV	LRP2	NM_004525:c.G12111A;p.T4037T		P71	
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHA11	NM_018902:c.G1990A;p.V664M		P71	
chr9	1.24E+08	1.24E+08	C	T	exonic	synonymous SNV	OR1L1	NM_001005236:c.C537T;p.C179C		P71	
chr17	7517839	7517839	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G428A;p.C143Y	0	P71	
chr17	10310419	10310419	G	T	exonic	nonsynonymous SNV	MYH4	NM_017533:c.C244A;p.P82T	0	P71	
chr18	6975577	6975577	T	C	exonic	synonymous SNV	LAMA1	NM_005559:c.A5445G;p.G1815G		P71	
chrX	1.54E+08	1.54E+08	G	A	exonic	nonsynonymous SNV	F8	NM_000132:c.C1834T;p.R612C	0	P71	
chr1	1.57E+08	1.57E+08	C	T	exonic	nonsynonymous SNV	SPTA1	NM_003126:c.G5041A;p.V1681I	0.28	P73	
chr5	24571019	24571019	G	A	exonic	nonsynonymous SNV	CDH10	NM_006727:c.C773T;p.T258M	0.04	P73	
chr5	1.12E+08	1.12E+08	G	A	splicing		APC			P73	
chr16	60492800	60492800	T	A	exonic	nonsynonymous SNV	CDH8	NM_001796:c.A331T;p.I111L	0	P73	
chr17	7519131	7519131	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G128A;p.R43H	rs28934578	0	P73
chrX	31607426	31607426	A	G	exonic	nonsynonymous SNV	DMD	NM_004013:c.T479C;p.I160T	0.11	P73	
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G4088A;p.R1363H		P72	
chr4	1.26E+08	1.26E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G1898A;p.R633H		P72	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C667T;p.R223X	0	P72	
chr11	76724799	76724799	G	A	exonic	nonsynonymous SNV	PAK1	NM_001128620:c.C1393T;p.L465F	0	P72	
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A;p.G12D	0	P72	
chr1	70277424	70277424	G	T	exonic	nonsynonymous SNV	LRRRC7	NM_020794:c.G3215T;p.S1072I	0	P75	
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA2	NM_018905:c.C270T;p.I90I		P75	
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHB2	NM_018936:c.C1905T;p.R635R		P75	
chr6	90717163	90717163	C	T	exonic	synonymous SNV	BACH2	NM_0011170794:c.G1383A;p.P461P		P75	
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SNV	THBS2	NM_003247:c.G2671A;p.G891S	0	P75	
chr18	48988045	48988045	A	G	splicing		DCC			P75	
chr18	49267307	49267307	C	T	exonic	synonymous SNV	DCC	NM_005215:c.C3879T;p.F1293F		P75	
chr5	1.12E+08	1.12E+08	G	A	splicing		APC			P74	
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3829T;p.E1277X	0.07	P74	
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_033071:c.C8190T;p.H2730H		P74	
chr12	25271542	25271542	T	G	exonic	nonsynonymous SNV	KRAS	NM_004985:c.A183C;p.Q61H	0.01	P74	
chr17	7518295	7518295	C	T	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G315A;p.M105I	0	P74	
chr3	58130456	58130456	C	G	exonic	nonsynonymous SNV	FLNB	NM_001164319:c.C7445G;p.P2482R	0.06	P3	
chr5	82873647	82873647	T	G	exonic	nonsynonymous SNV	VCAN	NM_001164097:c.T6108G;p.D2036E	0.01	P3	
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA10	NM_018901:c.G1365A;p.A455A		P3	

chr9	1.37E+08	1.37E+08	A	T	exonic	nonsynonymous SNV	COL5A1	NM_000093:c.A914T:p.E305V	0.15	P3
chr13	23928485	23928485	T	C	exonic	synonymous SNV	PARP4	NM_006437:c.A2556G:p.E852E		P3
chr13	65776827	65776827	T	G	exonic	synonymous SNV	PCDH9	NM_020403:c.A3573C:p.A1191A		P3
chr17	7520103	7520103	G	C	exonic	stopgain SNV	TP53	NM_000546:c.C309G:p.Y103X	0.01	P3
chr2	2.38E+08	2.38E+08	C	T	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.G845A:p.R282H	rs111295967	P5
chr15	26049293	26049293	C	T	exonic	nonsynonymous SNV	HERC2	NM_004667:c.G12613A:p.G4205R		0 P5
chr1	1.51E+08	1.51E+08	C	A	exonic	nonsynonymous SNV	FLG	NM_002016:c.G4784T:p.S1595I		0.01 P4
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV	APC	NM_000038:c.C646T:p.R216X	rs62619935	0.19 P4
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C1279T:p.Q427X		0.01 P6
chr17	7518293	7518293	C	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G317T:p.C106F		0 P6
chrX	32290968	32290968	C	T	exonic	nonsynonymous SNV	DMD	NM_004011:c.G1160A:p.R387H		0.07 P6
chrX	32413094	32413094	C	T	exonic	nonsynonymous SNV	DMD	NM_004007:c.G2297A:p.R766Q		0.69 P6
chr1	29516857	29516857	C	T	exonic	nonsynonymous SNV	PTPRU	NM_001195001:c.C3515T:p.S1172L		0.12 P7
chr1	70030332	70030332	G	C	exonic	nonsynonymous SNV	LRRC7	NM_020794:c.G208C:p.A70P		0.04 P7
chr1	1.84E+08	1.84E+08	G	T	exonic	nonsynonymous SNV	HMCN1	NM_031935:c.G13117T:p.V4373L		0.2 P7
chr4	1.27E+08	1.27E+08	A	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.A9283T:p.S3095C		0.01 P7
chr5	1.69E+08	1.69E+08	A	T	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.A5356T:p.T1786S		0 P7
chr6	1.53E+08	1.53E+08	G	C	exonic	nonsynonymous SNV	SYNE1	NM_015293:c.C4897G:p.Q1633E		0.01 P7
chr7	93871835	93871835	C	T	exonic	nonsynonymous SNV	COL1A2	NM_000089:c.C311T:p.A104V		0.22 P7
chr10	55239079	55239079	T	C	exonic	synonymous SNV	PCDH15	NM_001142769:c.A4752G:p.K1584K		P7
chr12	25289548	25289548	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G38A:p.G13D	rs112445441	0 P7
chr17	7519250	7519250	G	T	exonic	stopgain SNV	TP53	NM_001126115:c.C9A:p.C3X		0 P7
chr17	10345471	10345471	C	T	exonic	nonsynonymous SNV	MYH1	NM_005963:c.G3419A:p.R1140H		0 P7
chr22	39878245	39878245	G	A	exonic	synonymous SNV	EP300	NM_001429:c.G3087A:p.Q1029Q		P7
chr1	51602281	51602281	T	C	exonic	nonsynonymous SNV	EPS15	NM_001159969:c.A1262G:p.N421S		0.74 P9
chr1	51604289	51604289	G	A	exonic;splicing	nonsynonymous SNV	EPS15	NM_001159969:c.C1178T:p.A393V		0.09 P9
chr1	69998511	69998511	G	A	exonic	synonymous SNV	LRRC7	NM_020794:c.G36A:p.V12V	rs1340770	P9
chr1	1.58E+08	1.58E+08	C	T	exonic	nonsynonymous SNV	ATP1A4	NM_001001734:c.C488T:p.T163M		0.08 P9
chr1	2.14E+08	2.14E+08	C	T	exonic	synonymous SNV	USH2A	NM_206933:c.G13191A:p.E4397E	rs2009923	P9
chr1	2.14E+08	2.14E+08	G	A	exonic	nonsynonymous SNV	USH2A	NM_206933:c.C9340T:p.P3114S		0.46 P9
chr1	2.14E+08	2.14E+08	G	A	exonic	nonsynonymous SNV	USH2A	NM_007123:c.C4241T:p.A1414V		0.34 P9
chr1	2.46E+08	2.46E+08	T	A	exonic	nonsynonymous SNV	OR2M5	NM_001004690:c.T530A:p.F177Y		0.11 P9
chr1	2.46E+08	2.46E+08	G	A	exonic	synonymous SNV	OR2M3	NM_001004689:c.G333A:p.E111E	rs4916112	P9
chr2	15247904	15247904	G	A	exonic	synonymous SNV	NBAS	NM_015909:c.C6507T:p.H2169H	rs2302942	P9
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C9234T:p.H3078H	rs116975392	P9
chr2	1.7E+08	1.7E+08	T	C	exonic	nonsynonymous SNV	LRP2	NM_004525:c.A248G:p.N83S	rs2229263	0.97 P9
chr2	2.38E+08	2.38E+08	G	A	exonic	nonsynonymous SNV	COL6A3	NM_057166:c.C5554T:p.R1852W		P9
chr3	8750661	8750661	C	T	exonic	synonymous SNV	CAV3	NM_001234:c.C99T:p.N33N	rs1008642	P9
chr3	10388601	10388601	G	A	exonic	synonymous SNV	ATP2B2	NM_001683:c.C1416T:p.G472G	rs2289273	P9
chr3	10388715	10388715	G	A	exonic	synonymous SNV	ATP2B2	NM_001683:c.C1302T:p.N434N	rs2289274	P9
chr3	58092764	58092764	G	A	exonic	synonymous SNV	FLNB	NM_001164317:c.G4461A:p.P1487	rs60183346	P9
chr3	58115603	58115603	C	G	exonic	nonsynonymous SNV	FLNB	NM_001164319:c.C6608G:p.S2203C		0.01 P9
chr3	1.25E+08	1.25E+08	A	G	exonic	nonsynonymous SNV	MYLK	NM_053025:c.T782C:p.V261A	rs3796164	0.06 P9
chr3	1.53E+08	1.53E+08	A	C	exonic	synonymous SNV	IGSF10	NM_001178145:c.T672G:p.S224S	rs9864533	P9
chr4	54824835	54824835	T	C	exonic	synonymous SNV	PDGFRA	NM_006206:c.T612C:p.N204N	rs2229307	P9
chr4	54828483	54828483	T	G	exonic	synonymous SNV	PDGFRA	NM_006206:c.T939G:p.G313G	rs4358459	P9
chr4	1.26E+08	1.26E+08	C	T	exonic	synonymous SNV	FAT4	NM_024582:c.C405T:p.F135F	rs72928772	P9
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G10571A:p.G3524D	rs1567047	0.06 P9
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.C13361T:p.P4454L		0.04 P9
chr4	1.27E+08	1.27E+08	C	T	exonic	synonymous SNV	FAT4	NM_024582:c.C14355T:p.V4785V	rs1014865	P9
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C8040T:p.I2680I		P9
chr4	1.56E+08	1.56E+08	T	C	exonic	nonsynonymous SNV	DCHS2	NM_001142552:c.A2303G:p.H768F	rs10017772	0.49 P9
chr4	1.56E+08	1.56E+08	A	G	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.T458C:p.V153A	rs11721758	0.06 P9

chr5	1134702	1134702	A	G	exonic	synonymous SNV	SLC12A7	NM_006598:c.T1287C;p.P429P	rs6865765	P9
chr5	7855363	7855363	C	T	exonic	synonymous SNV	ADCY2	NM_020546:c.C2661T;p.C887C	rs2290910	P9
chr5	34947464	34947464	G	C	exonic	nonsynonymous SNV	RAD1	NM_002853:c.C518G;p.T173R		0.04 P9
chr5	82825403	82825403	A	G	exonic	synonymous SNV	VCAN	NM_001126336:c.A645G;p.V215V	rs4470745	P9
chr5	82869147	82869147	A	G	exonic	synonymous SNV	VCAN	NM_001164097:c.A1608G;p.T536T	rs16900528	P9
chr5	82869340	82869340	C	A	exonic	nonsynonymous SNV	VCAN	NM_001164097:c.C1801A;p.P601T		0 P9
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV	PCDHA3	NM_018906:c.G1383A;p.T461T		P9
chr5	1.4E+08	1.4E+08	G	T	exonic	nonsynonymous SNV	PCDHAC1	NM_018898:c.G285T;p.L95F		0.11 P9
chr5	1.4E+08	1.4E+08	A	T	exonic	nonsynonymous SNV	PCDHB3	NM_018937:c.A1242T;p.R414S	rs3733699	0.21 P9
chr5	1.41E+08	1.41E+08	C	T	exonic	stopgain SNV	PCDHB6	NM_018939:c.C2323T;p.Q775X		0.16 P9
chr5	1.41E+08	1.41E+08	T	C	exonic	synonymous SNV	PCDHB7	NM_018940:c.T2190C;p.F730F	rs11741863	P9
chr5	1.41E+08	1.41E+08	T	A	exonic	synonymous SNV	PCDHB11	NM_018931:c.T1146A;p.V382V	rs3733688	P9
chr5	1.41E+08	1.41E+08	G	T	exonic	synonymous SNV	PCDHB11	NM_018931:c.G2163T;p.S721S	rs638054	P9
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C11079T;p.F3693F		P9
chr6	90699213	90699213	C	T	exonic	nonsynonymous SNV	BACH2	NM_001170794:c.G2161A;p.E721K		0.03 P9
chr6	1.3E+08	1.3E+08	G	T	exonic	nonsynonymous SNV	LAMA2	NM_000426:c.G2217T;p.W739C		0.02 P9
chr6	1.3E+08	1.3E+08	A	G	exonic	synonymous SNV	LAMA2	NM_000426:c.A2799G;p.Q933Q	rs1027199	P9
chr6	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV	LAMA2	NM_000426:c.G6237A;p.T2079T	rs2297738	P9
chr6	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C15318A;p.S5106R		0.13 P9
chr6	1.53E+08	1.53E+08	C	G	exonic	synonymous SNV	SYNE1	NM_033071:c.G13848C;p.L4616L	rs3734365	P9
chr6	1.53E+08	1.53E+08	G	A	exonic	synonymous SNV	SYNE1	NM_033071:c.C12063T;p.L4021L	rs71575926	P9
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C8405T;p.A2802V	rs214950	0.03 P9
chr6	1.66E+08	1.66E+08	T	C	exonic	synonymous SNV	PDE10A	NM_001130690:c.A204G;p.S68S	rs9459421	P9
chr7	91460170	91460170	A	T	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.A441T;p.E147D		0.07 P9
chr7	91468556	91468556	G	T	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.G1389T;p.M463I	rs6964587	0.38 P9
chr7	91479864	91479864	A	G	exonic	synonymous SNV	AKAP9	NM_005751:c.A3504G;p.E1168E	rs13245393	P9
chr7	91529537	91529537	C	T	exonic	synonymous SNV	AKAP9	NM_005751:c.C5778T;p.G1926G	rs10236397	P9
chr7	91550634	91550634	A	G	exonic	nonsynonymous SNV	AKAP9	NM_005751:c.A8375G;p.N2792S	rs6960867	0.34 P9
chr7	91551908	91551908	C	T	exonic	synonymous SNV	AKAP9	NM_005751:c.C8665T;p.L2889L	rs10228334	P9
chr7	91553598	91553598	C	T	exonic	synonymous SNV	AKAP9	NM_005751:c.C9145T;p.L3049L	rs28927678	P9
chr7	91564863	91564863	A	C	exonic	synonymous SNV	AKAP9	NM_005751:c.A10426C;p.R3476R	rs1063243	P9
chr7	93894285	93894285	C	T	exonic	synonymous SNV	COL1A2	NM_000089:c.C3135T;p.G1045G	rs1800248	P9
chr7	1E+08	1E+08	C	T	exonic	synonymous SNV	MUC17	NM_001040105:c.C8823T;p.A2941	rs75247423	P9
chr7	1.03E+08	1.03E+08	A	G	exonic	synonymous SNV	RELN	NM_005045:c.T7887C;p.P2629P	rs56345626	P9
chr7	1.03E+08	1.03E+08	A	G	exonic	synonymous SNV	RELN	NM_005045:c.T6702C;p.C2234C	rs2075043	P9
chr7	1.03E+08	1.03E+08	G	C	exonic	nonsynonymous SNV	RELN	NM_005045:c.C2989G;p.L997V	rs362691	0.86 P9
chr7	1.03E+08	1.03E+08	T	C	exonic	synonymous SNV	RELN	NM_005045:c.A1776G;p.E592E	rs2072403	P9
chr7	1.52E+08	1.52E+08	C	T	exonic	synonymous SNV	MLL3	NM_170606:c.G8685A;p.Q2895Q	rs6464211	P9
chr7	1.52E+08	1.52E+08	A	G	exonic	nonsynonymous SNV	MLL3	NM_170606:c.T6965C;p.V2322A		0.04 P9
chr9	1.17E+08	1.17E+08	C	T	exonic	nonsynonymous SNV	TNC	NM_002160:c.G5341A;p.A1781T	rs2274750	0.02 P9
chr9	1.17E+08	1.17E+08	T	C	exonic	synonymous SNV	TNC	NM_002160:c.A5202G;p.T1734T	rs1061495	P9
chr9	1.37E+08	1.37E+08	G	A	exonic;splicing	synonymous SNV	COL5A1	NM_000093:c.G4122A;p.T1374T	rs3827848	P9
chr9	1.37E+08	1.37E+08	G	C	exonic	synonymous SNV	COL5A1	NM_000093:c.G4482C;p.P1494P	rs3811146	P9
chr10	55252911	55252911	G	T	exonic	synonymous SNV	PCDH15	NM_001142767:c.C4461A;p.P1487	rs10825114	P9
chr10	55391643	55391643	G	A	exonic	nonsynonymous SNV	PCDH15	NM_001142765:c.C2671T;p.R891C		0.16 P9
chr10	55425497	55425497	C	T	exonic	nonsynonymous SNV	PCDH15	NM_001142765:c.G2573A;p.R858C	rs2135720	0.42 P9
chr10	75343885	75343885	C	T	exonic	synonymous SNV	PLAU	NM_001145031:c.C771T;p.N257N	rs2227568	P9
chr10	1.06E+08	1.06E+08	T	C	exonic	nonsynonymous SNV	COL17A1	NM_000494:c.A4109G;p.D1370G	rs17116350	0.49 P9
chr10	1.16E+08	1.16E+08	A	G	exonic	synonymous SNV	C10orf81	NM_182601:c.A18G;p.Q6Q	rs10885500	P9
chr11	66957395	66957395	C	T	exonic	synonymous SNV	RPS6KB2	NM_003952:c.C807T;p.F269F	rs4930427	P9
chr11	66958732	66958732	C	T	exonic	nonsynonymous SNV	RPS6KB2	NM_003952:c.C1259T;p.A420V	rs13859	P9
chr11	1.24E+08	1.24E+08	T	G	exonic	nonsynonymous SNV	OR8B12	NM_001005195:c.A337C;p.I113L		0.59 P9
chr11	1.34E+08	1.34E+08	C	T	exonic	synonymous SNV	GLB1L2	NM_138342:c.C642T;p.Y214Y	rs3802928	P9

chr12	6037457	6037457	A	G	exonic	synonymous SNV	VWF	NM_000552:c.T1548C:p.Y516Y	rs1800379	P9	
chr12	25289548	25289548	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G38A:p.G13D	rs112445441	0	P9
chr12	1.08E+08	1.08E+08	T	C	exonic	synonymous SNV	ACACB	NM_001093:c.T4506C:p.L1502L	rs2241220		P9
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C6204T:p.H2068H	rs3742023		P9
chr12	1.28E+08	1.28E+08	C	T	exonic	synonymous SNV	TMEM132D	NM_133448:c.G1821A:p.T607T	rs79031518		P9
chr12	1.31E+08	1.31E+08	G	A	exonic	synonymous SNV	EP400	NM_015409:c.G9231A:p.S3077S	rs117244926		P9
chr13	23907297	23907297	G	T	exonic	nonsynonymous SNV	PARP4	NM_006437:c.C3982A:p.P1328T	rs1050112	0.64	P9
chr13	23907441	23907441	C	G	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G3838C:p.G1280R	rs13428	0.09	P9
chr13	23907485	23907485	C	G	exonic	nonsynonymous SNV	PARP4	NM_006437:c.G3794C:p.G1265A	rs1050110	1	P9
chr13	46367941	46367941	G	A	exonic	synonymous SNV	HTR2A	NM_000621:c.C102T:p.S34S	rs6313		P9
chr15	26096204	26096204	C	T	exonic	synonymous SNV	HERC2	NM_004667:c.G9210A:p.S3070S	rs61756153		P9
chr15	65244452	65244452	C	A	exonic	synonymous SNV	SMAD3	NM_001145102:c.C57A:p.P19P			P9
chr15	67112635	67112635	C	T	exonic	synonymous SNV	NOX5	NM_001184779:c.C735T:p.C245C	rs311893		P9
chr15	67126841	67126841	G	A	exonic	nonsynonymous SNV	NOX5	NM_001184779:c.G1643A:p.R548H	rs2277552		P9
chr15	75131848	75131848	T	A	exonic	synonymous SNV	TSPAN3	NM_001168412:c.A411T:p.V137V	rs11737		P9
chr16	23108262	23108262	T	C	exonic	synonymous SNV	SCNN1G	NM_001039:c.T387C:p.Y129Y	rs5734		P9
chr16	60448534	60448534	C	A	exonic	nonsynonymous SNV	CDH8	NM_001796:c.G657T:p.E219D		0.51	P9
chr17	1508390	1508390	G	A	exonic	synonymous SNV	PRPF8	NM_006445:c.C5412T:p.N1804N			P9
chr17	7519223	7519223	C	G	exonic	nonsynonymous SNV	TP53	NM_001126115:c.G36C:p.Q12H		0	P9
chr17	7519224	7519224	T	G	exonic	nonsynonymous SNV	TP53	NM_001126115:c.A35C:p.Q12P		0.01	P9
chr17	10162874	10162874	A	G	exonic	synonymous SNV	MYH13	NM_003802:c.T3696C:p.I1232I	rs2074873		P9
chr17	10244699	10244699	G	A	exonic	synonymous SNV	MYH8	NM_002472:c.C3468T:p.A1156A			P9
chr17	10353533	10353533	G	A	exonic	synonymous SNV	MYH1	NM_005963:c.C1581T:p.I527I	rs117737350		P9
chr17	10484188	10484188	T	C	exonic	synonymous SNV	MYH3	NM_002470:c.A2532G:p.A844A	rs2285469		P9
chr17	26577611	26577611	G	A	exonic	synonymous SNV	NF1	NM_000267:c.G2034A:p.P678P	rs2285892		P9
chr17	38499208	38499208	C	T	exonic	synonymous SNV	BRCA1	NM_007297:c.G1725A:p.A575A			P9
chr17	75920466	75920466	G	A	exonic	nonsynonymous SNV	RNF213	NM_020914:c.G3730A:p.V1244M	rs10782008		P9
chr17	75920697	75920697	G	C	exonic	nonsynonymous SNV	RNF213	NM_020914:c.G3961C:p.E1321Q	rs9913636		P9
chr17	75920875	75920875	A	G	exonic	nonsynonymous SNV	RNF213	NM_020914:c.A4139G:p.D1380G	rs8074015		P9
chr17	75920990	75920990	C	T	exonic	synonymous SNV	RNF213	NM_020914:c.C4254T:p.N1418N			P9
chr17	75926103	75926103	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G4797A:p.A1599A	rs4890009		P9
chr17	75933731	75933731	G	A	exonic	nonsynonymous SNV	RNF213	NM_020914:c.G7148A:p.S2383N	rs9674961	0.44	P9
chr17	75933975	75933975	G	C	exonic	synonymous SNV	RNF213	NM_020914:c.G7392C:p.P2464P	rs4890012		P9
chr18	6973194	6973194	G	T	exonic	synonymous SNV	LAMA1	NM_005559:c.C5700A:p.T1900T	rs11661974		P9
chr18	49177711	49177711	A	G	exonic	synonymous SNV	DCC	NM_005215:c.A2724G:p.T908T			P9
chr18	49190992	49190992	T	C	exonic	synonymous SNV	DCC	NM_005215:c.T3108C:p.P1036P	rs34395300		P9
chr18	59321701	59321701	T	C	exonic	synonymous SNV	SERPINB5	NM_002639:c.T894C:p.S298S	rs1455556		P9
chr18	59321762	59321762	A	G	exonic	nonsynonymous SNV	SERPINB5	NM_002639:c.A955G:p.I319V	rs1455555		P9
chr19	7882201	7882201	C	T	exonic	synonymous SNV	MAP2K7	NM_145185:c.C922T:p.L308L	rs56278855		P9
chr19	43682454	43682454	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C7281T:p.A2427A	rs77310009		P9
chr19	43683356	43683356	G	A	exonic	synonymous SNV	RYR1	NM_000540:c.G7500A:p.A2500A	rs2228072		P9
chr19	43683383	43683383	G	A	exonic	synonymous SNV	RYR1	NM_000540:c.G7527A:p.V2509V	rs2071088		P9
chr19	43683440	43683440	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C7584T:p.P2528P	rs1465698		P9
chr19	43701893	43701893	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C10218T:p.Y3406Y	rs41274330		P9
chr19	48464110	48464110	G	T	exonic	synonymous SNV	PSG9	NM_002784:c.C96A:p.T32T	rs3746296		P9
chr19	48464142	48464142	C	T	splicing		PSG9		rs3746297		P9
chr19	48465372	48465372	G	C	exonic	nonsynonymous SNV	PSG9	NM_002784:c.C52G:p.L18V	rs8101191	0.07	P9
chr19	48465412	48465412	G	A	exonic	synonymous SNV	PSG9	NM_002784:c.C12T:p.L4L	rs8101210		P9
chr19	59973127	59973127	G	T	exonic	nonsynonymous SNV	KIR2DL1	NM_014218:c.G13T:p.V5F	rs2304224	0.02	P9
chr19	60069820	60069820	C	T	exonic	nonsynonymous SNV	KIR3DL2	NM_006737:c.C1190T:p.T397M	rs3745902	0.01	P9
chr19	60069945	60069945	A	C	exonic	nonsynonymous SNV	KIR3DL2	NM_006737:c.A1315C:p.K439Q	rs3745903	0.01	P9
chr20	23369101	23369101	G	A	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.G197A:p.R66K	rs17757442	0.58	P9
chr20	23372638	23372638	C	T	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.C287T:p.T96M	rs3746737	0.01	P9

chr20	32801057	32801057	A	G	exonic	nonsynonymous SN\ NCOA6	NM_014071:c.T2602C;p.C868R	0	P9
chr20	32801154	32801154	G	C	exonic	synonymous SNV NCOA6	NM_014071:c.C2505G;p.A835A		P9
chr22	39873895	39873895	C	T	exonic;splicing	nonsynonymous SN\ EP300	NM_001429:c.C2240T;p.P747L	0.05	P9
chr22	39877954	39877954	A	G	exonic	nonsynonymous SN\ EP300	NM_001429:c.A2989G;p.1997V rs20551	0.29	P9
chrX	19343256	19343256	G	A	exonic	nonsynonymous SN\ MAP3K15	NM_001001671:c.C1480T;p.R494C rs41305349		P9
chrX	19392397	19392397	C	T	exonic	nonsynonymous SN\ MAP3K15	NM_001001671:c.G574A;p.A192T rs5909299		P9
chrX	31607557	31607557	A	G	exonic	synonymous SNV DMD	NM_004013:c.T348C;p.N116N rs1801188		P9
chrX	63405536	63405536	C	G	exonic	nonsynonymous SN\ MTMR8	NM_017677:c.G1721C;p.G574A	0.01	P9
chrX	1.52E+08	1.52E+08	G	C	exonic	synonymous SNV ATP2B3	NM_001001344:c.G2592C;p.V864 rs2269415		P9
chr2	1.7E+08	1.7E+08	G	A	exonic	nonsynonymous SN\ LRP2	NM_004525:c.C100T;p.R34C	0.01	P8
chr5	1.4E+08	1.4E+08	G	A	exonic	synonymous SNV PCDHA3	NM_018906:c.G1527A;p.S509S		P8
chr9	1.37E+08	1.37E+08	G	A	exonic	synonymous SNV COL5A1	NM_000093:c.G762A;p.S254S		P8
chr12	25269829	25269829	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G436A;p.A146T	0.01	P8
chr17	59121468	59121468	G	A	exonic	synonymous SNV MAP3K3	NM_002401:c.G1176A;p.Q392Q		P8
chrX	1.54E+08	1.54E+08	C	T	exonic	nonsynonymous SN\ F8	NM_000132:c.G2150A;p.R717Q	0.32	P8
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G6250A;p.V2084M	0.03	P57
chr3	41243716	41243716	C	G	exonic	nonsynonymous SN\ CTNNB1	NM_001098209:c.C950G;p.A317G	0.04	P57
chr3	1.25E+08	1.25E+08	G	T	exonic	synonymous SNV MYLK	NM_053026:c.C2646A;p.V882V		P57
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV APC	NM_001127511:c.G3796T;p.E1266X	0.04	P57
chr7	98331326	98331326	C	A	exonic	nonsynonymous SN\ TRRAP	NM_003496:c.C454A;p.H152N	0.02	P57
chr18	7026000	7026000	C	G	exonic	nonsynonymous SN\ LAMA1	NM_005559:c.G1825C;p.D609H	0.19	P57
chr1	2.14E+08	2.14E+08	C	T	exonic	nonsynonymous SN\ USH2A	NM_007123:c.G4571A;p.G1524E	0	P56
chr2	15561736	15561736	C	T	exonic	nonsynonymous SN\ NBAS	NM_015909:c.G938A;p.R313H	0.19	P56
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C667T;p.R223X	0	P56
chr14	19735928	19735928	C	T	exonic	synonymous SNV OR11G2	NM_001005503:c.C594T;p.I198I		P56
chr17	7518988	7518988	G	A	exonic	stopgain SNV TP53	NM_001126115:c.C190T;p.R64X	0	P56
chr12	74043176	74043176	C	T	exonic	synonymous SNV GLIPR1L1	NM_152779:c.C549T;p.Y183Y		P54
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35T;p.G12V	0	P53
chr17	7519176	7519176	A	C	exonic	nonsynonymous SN\ TP53	NM_001126115:c.T83G;p.M28R	0	P53
chr2	2.38E+08	2.38E+08	G	A	exonic	synonymous SNV COL6A3	NM_057165:c.C501T;p.S167S		P52
chr10	55370633	55370633	T	C	exonic;splicing	synonymous SNV PCDH15	NM_001142765:c.A3018G;p.E1006E		P52
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35T;p.G12V	0	P52
chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\ TP53	NM_001126115:c.G128A;p.R43H rs28934578	0	P52
chr5	24523757	24523757	G	T	exonic	nonsynonymous SN\ CDH10	NM_006727:c.C2139A;p.F713L	0.08	P51
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\ PCDHA1	NM_018900:c.G1375A;p.E459K	0.15	P51
chr17	7517819	7517819	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C448T;p.R150W rs28934574	0	P51
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV APC	NM_000038:c.C646T;p.R216X rs62619935	0.19	P125
chr6	1.47E+08	1.47E+08	C	T	exonic	synonymous SNV GRM1	NM_000838:c.C726T;p.D242D		P125
chr12	25289552	25289552	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G34A;p.G12S	0	P125
chr15	64561185	64561185	G	A	exonic	nonsynonymous SN\ MAP2K1	NM_002755:c.G607A;p.E203K	0.01	P125
chr18	7557841	7557841	G	A	exonic	nonsynonymous SN\ PTPRM	NM_001105244:c.G25A;p.A9T	0.07	P125
chr8	1.09E+08	1.09E+08	C	T	exonic	nonsynonymous SN\ RSP02	NM_178565:c.G454A;p.E152K	0.48	P118
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35T;p.G12V	0	P118
chr13	93929396	93929396	C	G	exonic	nonsynonymous SN\ DCT	NM_001129889:c.G115C;p.E39Q	0.19	P118
chr20	2729106	2729106	G	C	exonic	nonsynonymous SN\ CPXM1	NM_001184699:c.C113G;p.P38R		P118
chr2	39092904	39092904	T	C	exonic	nonsynonymous SN\ SOS1	NM_005633:c.A2257G;p.T753A	0.59	P96
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV LRP2	NM_004525:c.C909T;p.T303T		P96
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV APC	NM_001127511:c.C1606T;p.R536X	0.02	P96
chr5	1.41E+08	1.41E+08	A	G	exonic	nonsynonymous SN\ PCDHB15	NM_018935:c.A1196G;p.N399S	0	P96
chr12	1.31E+08	1.31E+08	C	T	exonic	synonymous SNV EP400	NM_015409:c.C1344T;p.L448L		P96
chr17	7519217	7519217	C	T	exonic	stopgain SNV TP53	NM_001126115:c.G42A;p.W14X	0.02	P96
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\ FAT4	NM_024582:c.G14757T;p.M4919I	0.42	P59
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35T;p.G12V	0	P59

chr17	7517845	7517845	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G422A:p.R141H	rs28934576	0.01	P59
chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G128A:p.R43H	rs28934578	0	P1
chr1	1.84E+08	1.84E+08	C	A	exonic	nonsynonymous SN\	HMCN1	NM_031935:c.C13672A:p.Q4558K		1	P135
chr5	26917100	26917100	C	T	exonic	nonsynonymous SN\	CDH9	NM_016279:c.G2272A:p.A758T		1	P135
chr5	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.C901T:p.R301W		0	P135
chr6	1.47E+08	1.47E+08	G	T	exonic	nonsynonymous SN\	GRM1	NM_000838:c.G893T:p.G298V		0.06	P135
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A:p.G12D		0	P135
chr17	7518323	7518323	T	C	exonic	nonsynonymous SN\	TP53	NM_001126115:c.A287G:p.D96G		0.05	P135
chr1	11211508	11211508	T	C	exonic	nonsynonymous SN\	MTOR	NM_004958:c.A2834G:p.E945G		0	P134
chr1	69998635	69998635	G	T	exonic	nonsynonymous SN\	LRRC7	NM_020794:c.G160T:p.D54Y		0.02	P134
chr1	70276403	70276403	C	T	exonic	stopgain SNV	LRRC7	NM_020794:c.C2194T:p.Q732X		0	P134
chr1	70277098	70277098	A	G	exonic	nonsynonymous SN\	LRRC7	NM_020794:c.A2889G:p.I963M		0	P134
chr1	1.57E+08	1.57E+08	A	G	splicing		SPTA1				P134
chr1	1.84E+08	1.84E+08	T	C	exonic	synonymous SNV	HMCN1	NM_031935:c.T6216C:p.S2072S			P134
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\	HMCN1	NM_031935:c.G9572A:p.R3191H		0.11	P134
chr1	1.84E+08	1.84E+08	T	C	exonic	nonsynonymous SN\	HMCN1	NM_031935:c.T15229C:p.F5077L		0.04	P134
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SN\	USH2A	NM_206933:c.A12058G:p.T4020A		0.11	P134
chr1	2.14E+08	2.14E+08	T	C	exonic	nonsynonymous SN\	USH2A	NM_206933:c.A9944G:p.Y3315C		0	P134
chr1	2.46E+08	2.46E+08	A	G	exonic	synonymous SNV	OR2M5	NM_001004690:c.A6G:p.A2A			P134
chr2	15333271	15333271	C	T	exonic	nonsynonymous SN\	NBAS	NM_015909:c.G5512A:p.G1838R		0	P134
chr2	15411254	15411254	C	T	exonic	synonymous SNV	NBAS	NM_015909:c.G3963A:p.Q1321Q			P134
chr2	15473293	15473293	C	G	exonic;splicing	nonsynonymous SN\	NBAS	NM_015909:c.G2765C:p.C922S		0.64	P134
chr2	1.05E+08	1.05E+08	G	A	exonic	synonymous SNV	FHL2	NM_001450:c.C744T:p.C248C			P134
chr2	1.7E+08	1.7E+08	A	G	exonic	nonsynonymous SN\	LRP2	NM_004525:c.T9109C:p.F3037L		0	P134
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C3711T:p.C1237C			P134
chr2	2.02E+08	2.02E+08	G	A	exonic	nonsynonymous SN\	CASP8	NM_033356:c.G1201A:p.A401T		0.58	P134
chr2	2.03E+08	2.03E+08	G	A	exonic	nonsynonymous SN\	FZD7	NM_003507:c.G968A:p.G323D		0.23	P134
chr2	2.12E+08	2.12E+08	G	A	exonic	nonsynonymous SN\	ERBB4	NM_001042599:c.C851T:p.T284I		0.02	P134
chr2	2.38E+08	2.38E+08	A	G	exonic	synonymous SNV	COL6A3	NM_057166:c.T6765C:p.V2255V			P134
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G3567A:p.A1189A	rs116565519		P134
chr3	10357184	10357184	G	A	exonic	nonsynonymous SN\	ATP2B2	NM_001683:c.C2987T:p.A996V		0.75	P134
chr3	58042487	58042487	C	T	exonic	nonsynonymous SN\	FLNB	NM_001164317:c.C731T:p.P244L		0	P134
chr3	1.25E+08	1.25E+08	G	A	exonic	synonymous SNV	MYLK	NM_053026:c.C3951T:p.S1317S			P134
chr3	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G3062A:p.R1021Q	rs35114212	0	P134
chr3	1.53E+08	1.53E+08	A	G	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.T1061C:p.L354P		0	P134
chr4	54828585	54828585	A	T	exonic	synonymous SNV	PDGFRA	NM_006206:c.A1041T:p.I347I			P134
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G9186T:p.K3062N		0.27	P134
chr4	1.55E+08	1.55E+08	T	C	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.A4483G:p.T1495A		0.5	P134
chr4	1.55E+08	1.55E+08	A	G	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.T3317C:p.L1106P		0.37	P134
chr4	1.56E+08	1.56E+08	C	T	exonic	synonymous SNV	DCHS2	NM_001142552:c.G2022A:p.E674E			P134
chr4	1.56E+08	1.56E+08	A	G	exonic	nonsynonymous SN\	DCHS2	NM_001142552:c.T1732C:p.Y578H		0	P134
chr4	1.57E+08	1.57E+08	C	T	exonic	nonsynonymous SN\	GUCY1A3	NM_001130684:c.C262T:p.R88W		0	P134
chr5	24541033	24541033	A	T	exonic	synonymous SNV	CDH10	NM_006727:c.T1338A:p.P446P			P134
chr5	26921951	26921951	T	A	splicing		CDH9				P134
chr5	82853812	82853812	C	T	exonic	stopgain SNV	VCAN	NM_001164098:c.C3931T:p.Q1311X		0.11	P134
chr5	82879655	82879655	G	A	exonic	synonymous SNV	VCAN	NM_001126336:c.G1266A:p.E422E			P134
chr5	1.38E+08	1.38E+08	T	C	exonic	synonymous SNV	CTNNA1	NM_001903:c.T1011C:p.C337C			P134
chr5	1.4E+08	1.4E+08	T	C	exonic	synonymous SNV	PCDHA1	NM_018900:c.T1209C:p.N403N			P134
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA7	NM_018910:c.G1637A:p.G546D		0.03	P134
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA7	NM_018910:c.G1795A:p.A599T		0.01	P134
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SN\	PCDHA8	NM_018911:c.G2198A:p.R733Q		0.2	P134
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA9	NM_014005:c.C1506T:p.R502R			P134
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA11	NM_018902:c.C1927T:p.R643C			P134

chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.C20T;p.A7V	0.48	P134
chr5	1.4E+08	1.4E+08	C	A	exonic	nonsynonymous SN\	PCDHAC1	NM_018898:c.C126A;p.D42E	0.03	P134
chr5	1.41E+08	1.41E+08	A	G	exonic	nonsynonymous SN\	PCDHB7	NM_018940:c.A923G;p.D308G	0	P134
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV	PCDHB16	NM_020957:c.G2307A;p.P769P		P134
chr5	1.41E+08	1.41E+08	A	G	exonic	nonsynonymous SN\	PCDHB13	NM_018933:c.A865G;p.I289V	0.54	P134
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV	FAT2	NM_001447:c.G12456A;p.A4152A		P134
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	FAT2	NM_001447:c.C6894T;p.D2298D		P134
chr5	1.51E+08	1.51E+08	T	G	exonic	nonsynonymous SN\	FAT2	NM_001447:c.A3008C;p.D1003A	0.13	P134
chr5	1.69E+08	1.69E+08	T	C	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.T49C;p.Y17H	0.09	P134
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.G1216A;p.V406M	0.05	P134
chr5	1.69E+08	1.69E+08	A	T	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.A3742T;p.T1248S	0.49	P134
chr6	1.12E+08	1.12E+08	C	T	exonic	nonsynonymous SN\	FYN	NM_153047:c.G916A;p.E306K	0.22	P134
chr6	1.3E+08	1.3E+08	A	G	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.A6116G;p.D2039G	0.16	P134
chr6	1.47E+08	1.47E+08	C	T	exonic	synonymous SNV	GRM1	NM_000838:c.C1344T;p.S448S		P134
chr6	1.47E+08	1.47E+08	C	A	exonic	nonsynonymous SN\	GRM1	NM_000838:c.C1711A;p.P571T	0	P134
chr6	1.53E+08	1.53E+08	A	G	exonic;splicing	nonsynonymous SN\	SYNE1	NM_015293:c.T4925C;p.V1642A	0.01	P134
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SN\	SYNE1	NM_015293:c.A3137G;p.Q1046R	0	P134
chr6	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.G15304A;p.G5102R	0.01	P134
chr6	1.53E+08	1.53E+08	A	G	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.T12655C;p.Y4219H	0.26	P134
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SN\	SYNE1	NM_033071:c.A1130G;p.Q377R	0	P134
chr6	1.66E+08	1.66E+08	C	T	exonic	nonsynonymous SN\	PDE10A	NM_001130690:c.G718A;p.A240T	0.04	P134
chr6	1.66E+08	1.66E+08	T	C	exonic	synonymous SNV	PDE10A	NM_001130690:c.A12G;p.G4G		P134
chr6	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\	THBS2	NM_003247:c.G2995A;p.A999T	0	P134
chr6	1.69E+08	1.69E+08	G	C	exonic	nonsynonymous SN\	THBS2	NM_003247:c.C1284G;p.S428R	0.09	P134
chr7	91481509	91481509	A	G	exonic	synonymous SNV	AKAP9	NM_005751:c.A3543G;p.G1181G		P134
chr7	91490198	91490198	G	A	exonic	nonsynonymous SN\	AKAP9	NM_005751:c.G4087A;p.A1363T	0	P134
chr7	91546828	91546828	A	G	exonic	nonsynonymous SN\	AKAP9	NM_005751:c.A7445G;p.Y2482C	0.18	P134
chr7	93883659	93883659	C	T	exonic	nonsynonymous SN\	COL1A2	NM_000089:c.C1771T;p.R591C	0	P134
chr7	93885053	93885053	G	T	exonic	nonsynonymous SN\	COL1A2	NM_000089:c.G1945T;p.G649C	0	P134
chr7	98357483	98357483	A	G	exonic	nonsynonymous SN\	TRRAP	NM_003496:c.A2794G;p.K932E	0.54	P134
chr7	98388764	98388764	G	A	exonic	synonymous SNV	TRRAP	NM_003496:c.G5427A;p.S1809S		P134
chr7	98424404	98424404	A	T	exonic	nonsynonymous SN\	TRRAP	NM_003496:c.A9395T;p.D3132V	0.06	P134
chr7	1E+08	1E+08	G	T	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.G1758T;p.E586D		P134
chr7	1E+08	1E+08	A	C	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.A2689C;p.T897P		P134
chr7	1E+08	1E+08	T	C	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.T3095C;p.M1032T	0.86	P134
chr7	1E+08	1E+08	T	C	exonic	synonymous SNV	MUC17	NM_001040105:c.T5763C;p.P1921P		P134
chr7	1E+08	1E+08	C	T	exonic	nonsynonymous SN\	MUC17	NM_001040105:c.C12937T;p.P4313S		P134
chr7	1.51E+08	1.51E+08	T	C	exonic	nonsynonymous SN\	MLL3	NM_170606:c.A9532G;p.K3178E	0.07	P134
chr7	1.52E+08	1.52E+08	G	A	exonic	synonymous SNV	MLL3	NM_170606:c.C7236T;p.P2412P		P134
chr7	1.52E+08	1.52E+08	C	T	exonic	synonymous SNV	MLL3	NM_170606:c.G5547A;p.K1849K		P134
chr8	41932049	41932049	C	T	exonic	nonsynonymous SN\	MYST3	NM_006766:c.G1520A;p.R507H	0.02	P134
chr9	96913630	96913630	A	G	exonic	nonsynonymous SN\	FANCC	NM_000136:c.T1265C;p.L422P	0	P134
chr9	96913734	96913734	G	A	exonic	synonymous SNV	FANCC	NM_000136:c.C1161T;p.C387C		P134
chr9	1.17E+08	1.17E+08	G	A	exonic	synonymous SNV	TNC	NM_002160:c.C1305T;p.S435S		P134
chr9	1.37E+08	1.37E+08	T	C	exonic	nonsynonymous SN\	COL5A1	NM_000093:c.T820C;p.Y274H	0.15	P134
chr9	1.37E+08	1.37E+08	G	A	exonic	nonsynonymous SN\	COL5A1	NM_000093:c.G1781A;p.R594Q	0	P134
chr9	1.37E+08	1.37E+08	T	C	exonic	synonymous SNV	COL5A1	NM_000093:c.T1845C;p.D615D		P134
chr9	1.37E+08	1.37E+08	C	T	exonic	nonsynonymous SN\	COL5A1	NM_000093:c.C2156T;p.P719L	0	P134
chr9	1.37E+08	1.37E+08	C	T	exonic	nonsynonymous SN\	COL5A1	NM_000093:c.C4882T;p.P1628S	0	P134
chr9	1.37E+08	1.37E+08	A	T	exonic	nonsynonymous SN\	COL5A1	NM_000093:c.A5441T;p.D1814V	0	P134
chr10	5237729	5237729	A	G	exonic	nonsynonymous SN\	AKR1C4	NM_001818:c.A379G;p.T127A	0.18	P134
chr10	28191461	28191461	C	T	exonic	nonsynonymous SN\	ARMC4	NM_018076:c.G2707A;p.A903T	0.01	P134
chr10	35969237	35969237	T	C	exonic	nonsynonymous SN\	FZD8	NM_031866:c.A1127G;p.Y376C	0.17	P134

chr10	35969652	35969652	T	C	exonic	nonsynonymous SN\ FZD8	NM_031866:c.A712G:p.M238V	0.1	P134	
chr10	52504543	52504543	C	T	exonic	stopgain SNV PRKG1	NM_006258:c.C187T:p.Q63X	0.75	P134	
chr10	55251750	55251750	T	C	exonic	synonymous SNV PCDH15	NM_001142767:c.A5622G;p.E1874E		P134	
chr10	55614958	55614958	C	T	exonic	nonsynonymous SN\ PCDH15	NM_001142767:c.G1271A;p.R424H	0	P134	
chr10	55643760	55643760	A	G	exonic	nonsynonymous SN\ PCDH15	NM_001142767:c.T929C;p.L310P	0	P134	
chr11	66957052	66957052	G	A	exonic	nonsynonymous SN\ RPS6KB2	NM_003952:c.G670A;p.A224T	0.84	P134	
chr11	1.06E+08	1.06E+08	G	A	exonic	nonsynonymous SN\ GUCY1A2	NM_000855:c.C1897T;p.R633C	0	P134	
chr11	1.08E+08	1.08E+08	A	G	exonic	synonymous SNV ATM	NM_000051:c.A1329G;p.L443L		P134	
chr11	1.08E+08	1.08E+08	T	C	exonic	nonsynonymous SN\ ATM	NM_000051:c.T2687C;p.L896P	0.07	P134	
chr11	1.08E+08	1.08E+08	T	C	exonic	nonsynonymous SN\ ATM	NM_000051:c.T4007C;p.F1336S	0.06	P134	
chr12	5961364	5961364	C	T	exonic	nonsynonymous SN\ VWF	NM_000552:c.G7136A;p.R2379H	0.02	P134	
chr12	22245980	22245980	C	T	exonic	nonsynonymous SN\ ST8SIA1	NM_003034:c.G844A;p.A282T	0.15	P134	
chr12	25289548	25289548	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G38A;p.G13D	rs112445441	0	P134
chr12	46813390	46813390	G	A	exonic	synonymous SNV PFKM	NM_001166688:c.G453A;p.T151T		P134	
chr12	47455454	47455454	A	G	exonic	nonsynonymous SN\ ADCY6	NM_015270:c.T1879C;p.F627L	0.18	P134	
chr12	47463205	47463205	T	C	exonic	nonsynonymous SN\ ADCY6	NM_015270:c.A280G;p.T94A	0.69	P134	
chr12	94631219	94631219	T	C	exonic	nonsynonymous SN\ NTN4	NM_021229:c.A893G;p.N298S	0.02	P134	
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV ACACB	NM_001093:c.C5071T;p.L1691L		P134	
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV ACACB	NM_001093:c.C5370T;p.V1790V		P134	
chr12	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SN\ ACACB	NM_001093:c.G5632A;p.V1878I		P134	
chr12	1.08E+08	1.08E+08	G	T	splicing	ACACB			P134	
chr12	1.08E+08	1.08E+08	T	C	exonic	nonsynonymous SN\ ACACB	NM_001093:c.T5708C;p.L1903S	0	P134	
chr12	1.29E+08	1.29E+08	C	T	exonic	nonsynonymous SN\ TMEM132D	NM_133448:c.G172A;p.V58I	0.29	P134	
chr12	1.31E+08	1.31E+08	T	C	exonic	nonsynonymous SN\ EP400	NM_015409:c.T3395C;p.L1132P	0	P134	
chr12	1.31E+08	1.31E+08	C	T	exonic	nonsynonymous SN\ EP400	NM_015409:c.C9230T;p.S3077L	0	P134	
chr13	30130969	30130969	A	G	exonic	nonsynonymous SN\ USPL1	NM_005800:c.A2755G;p.N919D	0.55	P134	
chr14	49654864	49654864	T	C	exonic	nonsynonymous SN\ SOS2	NM_006939:c.A3947G;p.H1316R	0.78	P134	
chr14	49710975	49710975	G	A	exonic	nonsynonymous SN\ SOS2	NM_006939:c.C1015T;p.R339C	0	P134	
chr14	90408387	90408387	G	A	exonic	synonymous SNV RPS6KA5	NM_004755:c.C2193T;p.C731C		P134	
chr14	90514541	90514541	C	G	exonic	nonsynonymous SN\ RPS6KA5	NM_004755:c.G256C;p.A86P	0.01	P134	
chr15	26032312	26032312	A	G	splicing	HERC2			P134	
chr15	26040133	26040133	A	G	exonic	nonsynonymous SN\ HERC2	NM_004667:c.T13226C;p.V4409A	0.01	P134	
chr15	26065028	26065028	T	C	exonic	nonsynonymous SN\ HERC2	NM_004667:c.A10958G;p.D3653G	0	P134	
chr15	26095206	26095206	A	G	exonic	nonsynonymous SN\ HERC2	NM_004667:c.T9649C;p.S3217P	0	P134	
chr15	26134450	26134450	C	T	exonic	nonsynonymous SN\ HERC2	NM_004667:c.G6122A;p.G2041D	0.33	P134	
chr15	26179595	26179595	C	T	exonic	nonsynonymous SN\ HERC2	NM_004667:c.G2239A;p.V747M	0.23	P134	
chr15	31739846	31739846	C	T	exonic	nonsynonymous SN\ RYR3	NM_001036:c.C4552T;p.R1518C	0.18	P134	
chr16	3719641	3719641	T	C	exonic	nonsynonymous SN\ CREBBP	NM_001079846:c.A5294G;p.Q1765R	0.03	P134	
chr16	60318559	60318559	G	A	exonic	synonymous SNV CDH8	NM_001796:c.C1476T;p.N492N		P134	
chr17	7517753	7517753	T	C	exonic	nonsynonymous SN\ TP53	NM_001126115:c.A514G;p.T172A	0.58	P134	
chr17	7519132	7519132	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C127T;p.R43C	0	P134	
chr17	10304319	10304319	G	T	exonic	nonsynonymous SN\ MYH4	NM_017533:c.C1192A;p.L398M	0.33	P134	
chr17	10307168	10307168	A	G	exonic	nonsynonymous SN\ MYH4	NM_017533:c.T868C;p.Y290H	0	P134	
chr17	26586873	26586873	G	A	exonic	nonsynonymous SN\ NF1	NM_000267:c.G3827A;p.R1276Q	0	P134	
chr17	38476698	38476698	A	G	exonic	nonsynonymous SN\ BRCA1	NM_007297:c.T4618C;p.S1540P	0.29	P134	
chr17	38498869	38498869	T	C	exonic	synonymous SNV BRCA1	NM_007297:c.A2064G;p.L688L		P134	
chr17	71245032	71245032	C	T	exonic	synonymous SNV ITGB4	NM_001005619:c.C2025T;p.D675D		P134	
chr17	75920415	75920415	C	T	exonic	nonsynonymous SN\ RNF213	NM_020914:c.C3679T;p.L1227F		P134	
chr17	75935277	75935277	G	A	exonic	synonymous SNV RNF213	NM_020914:c.G8694A;p.A2898A		P134	
chr17	75961410	75961410	G	A	exonic	synonymous SNV RNF213	NM_020914:c.G12939A;p.K4313K		P134	
chr17	75964777	75964777	G	A	exonic	nonsynonymous SN\ RNF213	NM_020914:c.G13414A;p.V4472M		P134	
chr18	6968274	6968274	C	T	exonic	synonymous SNV LAMA1	NM_005559:c.G6111A;p.L2037L		P134	
chr18	6973096	6973096	A	G	splicing	LAMA1			P134	

chr18	7945129	7945129	T	C	exonic	synonymous SNV	PTRPM	NM_001105244:c.T849C:p.V283V		P134	
chr18	61628176	61628176	G	A	exonic	nonsynonymous SNV	CDH7	NM_004361:c.G467A:p.G156D	0.39	P134	
chr18	61699070	61699070	C	T	exonic	nonsynonymous SNV	CDH7	NM_004361:c.C2318T:p.A773V	0	P134	
chr19	43685005	43685005	G	A	exonic	nonsynonymous SNV	RYR1	NM_000540:c.G7633A:p.E2545K	0.07	P134	
chr19	43690238	43690238	T	C	exonic	nonsynonymous SNV	RYR1	NM_000540:c.T8863C:p.F2955L	0.02	P134	
chr19	48112350	48112350	T	C	exonic	nonsynonymous SNV	PSG6	NM_001031850:c.A194G:p.Y65C	0	P134	
chr19	61108194	61108194	A	T	exonic	nonsynonymous SNV	NLRP13	NM_176810:c.T2544A:p.N848K	0	P134	
chr19	61135480	61135480	A	G	exonic	nonsynonymous SNV	NLRP13	NM_176810:c.T10C:p.S4P	0	P134	
chr20	44105200	44105200	G	A	exonic;splicing	synonymous SNV	SLC12A5	NM_001134771:c.G1137A:p.E379E		P134	
chr20	44118284	44118284	C	T	exonic	nonsynonymous SNV	SLC12A5	NM_001134771:c.C2945T:p.T982M	0.11	P134	
chr22	39886591	39886591	G	T	splicing		EP300			P134	
chr22	39894406	39894406	A	G	exonic	synonymous SNV	EP300	NM_001429:c.A3882G:p.P1294P		P134	
chr22	39902303	39902303	C	T	exonic	nonsynonymous SNV	EP300	NM_001429:c.C4886T:p.A1629V	0	P134	
chrX	18866733	18866733	T	C	exonic	nonsynonymous SNV	PHKA2	NM_000292:c.A974G:p.E325G	0	P134	
chrX	19354329	19354329	G	A	exonic	nonsynonymous SNV	MAP3K15	NM_001001671:c.C1220T:p.A407V		P134	
chrX	19536085	19536085	C	T	splicing		SH3KBP1			P134	
chrX	1.54E+08	1.54E+08	A	G	exonic	synonymous SNV	F8	NM_000132:c.T606C:p.S202S		P134	
chr7	1E+08	1E+08	G	C	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.G4154C:p.S1385T		P130	
chr17	7519200	7519200	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C59T:p.P20L	0	P130	
chr1	1.57E+08	1.57E+08	G	A	exonic	synonymous SNV	SPTA1	NM_003126:c.C3168T:p.R1056R		P133	
chr6	1.47E+08	1.47E+08	G	A	exonic	nonsynonymous SNV	GRM1	NM_000838:c.G2735A:p.R912H	0	P133	
chr6	1.53E+08	1.53E+08	C	A	exonic	stopgain SNV	SYNE1	NM_033071:c.G4234T:p.E1412X	0.11	P133	
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D	0	P133	
chr1	1.84E+08	1.84E+08	T	C	exonic	synonymous SNV	HMCN1	NM_031935:c.T951C:p.I317I		P132	
chr3	1.42E+08	1.42E+08	G	A	exonic	nonsynonymous SNV	CLSTN2	NM_022131:c.G1129A:p.D377N	0.31	P132	
chr5	26942664	26942664	G	A	exonic	synonymous SNV	CDH9	NM_016279:c.C564T:p.D188D		P132	
chr7	93887851	93887851	C	T	exonic	synonymous SNV	COL1A2	NM_000089:c.C2250T:p.N750N		P132	
chr12	22245894	22245894	G	A	exonic	synonymous SNV	ST8SIA1	NM_003034:c.C930T:p.H310H		P132	
chr18	46858767	46858767	C	T	exonic	nonsynonymous SNV	SMAD4	NM_005359:c.C1591T:p.R531W	0.01	P132	
chr19	43668611	43668611	G	A	exonic	nonsynonymous SNV	RYR1	NM_000540:c.G5476A:p.A1826T	0.33	P132	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C3286T:p.R1096X	0	P126	
chr15	65260776	65260776	C	T	exonic	nonsynonymous SNV	SMAD3	NM_001145104:c.C217T:p.R73C	0	P126	
chr17	7518915	7518915	T	C	exonic	nonsynonymous SNV	TP53	NM_001126115:c.A263G:p.Y88C	0	P126	
chrX	70515555	70515555	T	A	exonic	nonsynonymous SNV	TAF1	NM_004606:c.T1369A:p.W457R	0	P126	
chr1	11113317	11113317	G	A	exonic	synonymous SNV	MTOR	NM_004958:c.C5469T:p.A1823A	rs17848553	P129	
chr1	11195055	11195055	C	G	exonic	synonymous SNV	MTOR	NM_004958:c.G3462C:p.R1154R	rs17036536	P129	
chr1	1.58E+08	1.58E+08	C	T	exonic	synonymous SNV	ATP1A4	NM_144699:c.C1038T:p.A346A	rs11265338	P129	
chr1	2.14E+08	2.14E+08	C	T	exonic	synonymous SNV	USH2A	NM_206933:c.G9975A:p.G3325G		P129	
chr1	2.47E+08	2.47E+08	C	T	exonic	synonymous SNV	OR2M7	NM_001004691:c.G855A:p.L285L	rs4451579	P129	
chr2	15459803	15459803	C	T	exonic	nonsynonymous SNV	NBAS	NM_015909:c.G3011A:p.R1004Q	rs16862653	0.09	P129
chr2	39148291	39148291	T	G	exonic	synonymous SNV	SOS1	NM_005633:c.A195C:p.R65R	rs7609455	P129	
chr2	1.16E+08	1.16E+08	G	T	exonic	nonsynonymous SNV	DPP10	NM_001004360:c.G2155T:p.A719S	0	P129	
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C13359T:p.S4453S		P129	
chr2	1.7E+08	1.7E+08	C	T	exonic	synonymous SNV	LRP2	NM_004525:c.G10503A:p.Q3501Q	rs2229265	P129	
chr2	1.7E+08	1.7E+08	A	G	exonic	synonymous SNV	LRP2	NM_004525:c.T4875C:p.C1625C	rs2229267	P129	
chr2	2.02E+08	2.02E+08	A	G	exonic	nonsynonymous SNV	CASP8	NM_001080125:c.A41G:p.K14R	rs3769823	0	P129
chr2	2.02E+08	2.02E+08	G	A	exonic	synonymous SNV	CASP8	NM_033356:c.G915A:p.K305K	rs1045487	P129	
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G6276A:p.V2092V	rs115757876	P129	
chr2	2.38E+08	2.38E+08	C	T	exonic	synonymous SNV	COL6A3	NM_057166:c.G4548A:p.L1516L	rs2646254	P129	
chr3	10356982	10356982	G	T	exonic	nonsynonymous SNV	ATP2B2	NM_001683:c.C3046A:p.L1016M		0.17	P129
chr3	10388526	10388526	G	A	exonic	synonymous SNV	ATP2B2	NM_001683:c.C1491T:p.I497I	rs2289272	P129	
chr3	58058590	58058590	C	A	exonic	synonymous SNV	FLNB	NM_001164317:c.C993A:p.V331V		P129	
chr3	1.25E+08	1.25E+08	T	C	exonic	nonsynonymous SNV	MYLK	NM_053025:c.A1213G:p.M405V	rs35436690	0.27	P129

chr4	25026207	25026207	T	A	exonic	synonymous SNV	ANAPC4	NM_013367:c.T1848A:p.I616I	rs3214035	P129
chr4	54824835	54824835	T	C	exonic	synonymous SNV	PDGFRA	NM_006206:c.T612C:p.N204N	rs2229307	P129
chr4	54828483	54828483	T	G	exonic	synonymous SNV	PDGFRA	NM_006206:c.T939G:p.G313G	rs4358459	P129
chr4	54834528	54834528	T	C	exonic	nonsynonymous SNV	PDGFRA	NM_006206:c.T1432C:p.S478P	rs35597368	0.31 P129
chr4	54838334	54838334	G	A	exonic	synonymous SNV	PDGFRA	NM_006206:c.G1809A:p.A603A	rs10028020	P129
chr4	54846797	54846797	C	T	exonic	synonymous SNV	PDGFRA	NM_006206:c.C2472T:p.V824V	rs2228230	P129
chr4	75467298	75467298	A	G	exonic	synonymous SNV	EREG	NM_001432:c.A351G:p.E117E	rs2367707	P129
chr4	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SNV	FAT4	NM_024582:c.G8476A:p.D2826N	rs12508222	1 P129
chr4	1.55E+08	1.55E+08	G	A	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.C8027T:p.P2676L	rs61746132	0.02 P129
chr4	1.55E+08	1.55E+08	G	A	exonic	nonsynonymous SNV	DCHS2	NM_017639:c.C3614T:p.S1205L	rs11935573	0.01 P129
chr4	1.55E+08	1.55E+08	A	G	exonic	synonymous SNV	DCHS2	NM_001142552:c.T2556C:p.G852C	rs6858157	P129
chr4	1.56E+08	1.56E+08	G	A	exonic	synonymous SNV	DCHS2	NM_017639:c.C39T:p.D13D	rs62331900	P129
chr5	7819894	7819894	G	A	exonic	nonsynonymous SNV	ADCY2	NM_020546:c.G2189A:p.R730H		P129
chr5	82821950	82821950	T	C	exonic	synonymous SNV	VCAN	NM_001126336:c.T348C:p.T116T	rs12332199	P129
chr5	82821995	82821995	C	T	exonic	synonymous SNV	VCAN	NM_001126336:c.C393T:p.D131D	rs35042106	P129
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHA10	NM_018901:c.G2012A:p.G671D	rs17844348	P129
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHB2	NM_018936:c.G382A:p.V128I	rs31853	1 P129
chr5	1.4E+08	1.4E+08	A	G	exonic	nonsynonymous SNV	PCDHB3	NM_018937:c.A122G:p.K41R	rs31849	0.83 P129
chr5	1.4E+08	1.4E+08	A	G	exonic	synonymous SNV	PCDHB3	NM_018937:c.A345G:p.Q115Q	rs17844387	P129
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHB4	NM_018938:c.G1261A:p.A421T	rs3776099	1 P129
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SNV	PCDHB4	NM_018938:c.C1951T:p.R651C	rs17844417	0 P129
chr5	1.41E+08	1.41E+08	G	C	exonic	nonsynonymous SNV	PCDHB7	NM_018940:c.G1165C:p.V389L	rs2910313	1 P129
chr5	1.41E+08	1.41E+08	C	G	exonic	synonymous SNV	PCDHB7	NM_018940:c.C1590G:p.R530R	rs2907329	P129
chr5	1.41E+08	1.41E+08	A	T	exonic	nonsynonymous SNV	PCDHB7	NM_018940:c.A2146T:p.R716W	rs2910314	0 P129
chr5	1.41E+08	1.41E+08	T	C	exonic	synonymous SNV	PCDHB7	NM_018940:c.T2190C:p.F730F	rs11741863	P129
chr5	1.41E+08	1.41E+08	G	C	exonic	nonsynonymous SNV	PCDHB8	NM_019120:c.G730C:p.E244Q	rs2950844	0.58 P129
chr5	1.41E+08	1.41E+08	G	A	exonic	nonsynonymous SNV	PCDHB16	NM_020957:c.G2204A:p.R735H		1 P129
chr5	1.41E+08	1.41E+08	T	A	exonic	synonymous SNV	PCDHB11	NM_018931:c.T1146A:p.V382V	rs3733688	P129
chr5	1.41E+08	1.41E+08	G	T	exonic	synonymous SNV	PCDHB11	NM_018931:c.G2163T:p.S721S	rs638054	P129
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SNV	PCDHB12	NM_018932:c.C1259T:p.T420I	rs2910327	0 P129
chr5	1.41E+08	1.41E+08	A	G	exonic	nonsynonymous SNV	PCDHB12	NM_018932:c.A2287G:p.K763E	rs2910006	1 P129
chr5	1.51E+08	1.51E+08	C	T	exonic	synonymous SNV	FAT2	NM_001447:c.G10437A:p.P3479P	rs3734051	P129
chr5	1.51E+08	1.51E+08	G	A	exonic	nonsynonymous SNV	FAT2	NM_001447:c.C9952T:p.R3318W	rs2304024	0.09 P129
chr5	1.51E+08	1.51E+08	A	G	exonic	nonsynonymous SNV	FAT2	NM_001447:c.T6476C:p.V2159A		0.05 P129
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SNV	DOCK2	NM_004946:c.G401A:p.G134E		0.1 P129
chr5	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	DOCK2	NM_004946:c.G2727A:p.Q909Q	rs261623	P129
chr5	1.69E+08	1.69E+08	C	G	exonic	synonymous SNV	DOCK2	NM_004946:c.C3456G:p.L1152L	rs9791113	P129
chr6	90699079	90699079	G	A	exonic	synonymous SNV	BACH2	NM_001170794:c.C2295T:p.N765N	rs3798789	P129
chr6	90717040	90717040	T	C	exonic	synonymous SNV	BACH2	NM_001170794:c.A1506G:p.V502V	rs9451298	P129
chr6	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV	LAMA2	NM_000426:c.G6237A:p.T2079T	rs2297738	P129
chr6	1.47E+08	1.47E+08	G	A	exonic	synonymous SNV	GRM1	NM_000838:c.G2793A:p.K931K	rs2942	P129
chr6	1.47E+08	1.47E+08	T	C	exonic	nonsynonymous SNV	GRM1	NM_000838:c.T2977C:p.S993P	rs6923492	0.3 P129
chr6	1.47E+08	1.47E+08	C	A	exonic	synonymous SNV	GRM1	NM_000838:c.C3495A:p.P1165P	rs9373491	P129
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.C16064T:p.T5355M	rs2306914	0.08 P129
chr6	1.53E+08	1.53E+08	A	T	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.T14830A:p.L4944M	rs2306916	0.08 P129
chr6	1.53E+08	1.53E+08	C	G	exonic	synonymous SNV	SYNE1	NM_033071:c.G13848C:p.L4616L	rs3734365	P129
chr6	1.53E+08	1.53E+08	A	T	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.T13573A:p.S4525T	rs6911096	0.39 P129
chr6	1.53E+08	1.53E+08	T	C	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.A12149G:p.K4050R	rs9479297	1 P129
chr6	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SNV	SYNE1	NM_033071:c.G11967T:p.E3989D	rs4645434	0.31 P129
chr6	1.53E+08	1.53E+08	A	G	exonic	synonymous SNV	SYNE1	NM_182961:c.T10866C:p.S3622S	rs9397102	P129
chr6	1.53E+08	1.53E+08	G	T	exonic	synonymous SNV	SYNE1	NM_033071:c.C10212A:p.G3404G	rs4407724	P129
chr6	1.53E+08	1.53E+08	T	C	exonic	synonymous SNV	SYNE1	NM_033071:c.A9516G:p.E3172E	rs6913579	P129
chr6	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV	THBS2	NM_003247:c.C3075T:p.A1025A	rs9505895	P129

chr7	1E+08	1E+08	G	C	exonic	nonsynonymous SNV	MUC17	NM_001040105:c.G11794C:p.G39C	rs74974199	P129
chr9	21294803	21294803	G	A	exonic	synonymous SNV	IFNA5	NM_002169:c.C453T:p.T151T	rs10757212	P129
chr9	1.23E+08	1.23E+08	G	A	exonic	synonymous SNV	TRAF1	NM_001190947:c.C144T:p.S48S	rs3747841	P129
chr9	1.37E+08	1.37E+08	G	A	exonic;splicing	synonymous SNV	COL5A1	NM_000093:c.G4122A:p.T1374T	rs3827848	P129
chr10	35969137	35969137	G	A	exonic	synonymous SNV	FZD8	NM_031866:c.C1227T:p.A409A	rs74989785	P129
chr10	55425497	55425497	C	T	exonic	nonsynonymous SNV	PCDH15	NM_001142765:c.G2573A:p.R858C	rs2135720	0.42 P129
chr10	56093974	56093974	A	C	exonic	nonsynonymous SNV	PCDH15	NM_001142763:c.T55G:p.S19A	rs11004439	0.04 P129
chr10	1.16E+08	1.16E+08	A	G	exonic	synonymous SNV	C10orf81	NM_182601:c.A18G:p.Q6Q	rs10885500	P129
chr10	1.27E+08	1.27E+08	T	C	exonic	synonymous SNV	CTBP2	NM_022802:c.A1254G:p.A418A	rs3781413	P129
chr10	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SNV	CTBP2	NM_022802:c.G893A:p.R298Q	rs3781411	0 P129
chr10	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SNV	CTBP2	NM_022802:c.G700A:p.V234M	rs3781409	0 P129
chr10	1.27E+08	1.27E+08	G	A	exonic	synonymous SNV	CTBP2	NM_022802:c.C585T:p.D195D	rs3781407	P129
chr10	1.29E+08	1.29E+08	T	C	exonic	synonymous SNV	DOCK1	NM_001380:c.T4482C:p.I1494I	rs2229600	P129
chr10	1.34E+08	1.34E+08	A	G	exonic	synonymous SNV	LRRRC27	NM_001143757:c.A699G:p.P233P	rs2474328	P129
chr11	750139	750139	A	T	exonic	nonsynonymous SNV	TALDO1	NM_006755:c.A347T:p.D116V		0.09 P129
chr11	1.24E+08	1.24E+08	A	G	exonic	synonymous SNV	OR8B8	NM_012378:c.T360C:p.Y120Y	rs4296049	P129
chr12	6042463	6042463	T	C	exonic	nonsynonymous SNV	VWF	NM_000552:c.A1451G:p.H484R	rs1800378	1 P129
chr12	46654243	46654243	C	T	exonic	nonsynonymous SNV	COL2A1	NM_033150:c.G4006A:p.G1336S	rs2070739	0.01 P129
chr12	1.08E+08	1.08E+08	C	T	exonic	synonymous SNV	ACACB	NM_001093:c.C816T:p.A272A	rs4766516	P129
chr12	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SNV	ACACB	NM_001093:c.G1951A:p.A651T	rs2300455	0.01 P129
chr12	1.27E+08	1.27E+08	A	G	exonic	nonsynonymous SNV	TMEM132C	NM_001136103:c.A482G:p.H161R	rs11059681	P129
chr12	1.28E+08	1.28E+08	G	A	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.C2327T:p.S776F		0.09 P129
chr12	1.28E+08	1.28E+08	C	T	exonic	nonsynonymous SNV	TMEM132D	NM_133448:c.G2299A:p.V767I	rs73159540	0.37 P129
chr13	30131063	30131063	G	A	exonic	nonsynonymous SNV	USPL1	NM_005800:c.G2849A:p.S950N	rs3742302	1 P129
chr15	26086467	26086467	G	A	exonic	synonymous SNV	HERC2	NM_004667:c.C10515T:p.A3505A	rs61756152	P129
chr16	54077108	54077108	C	T	exonic	synonymous SNV	MMP2	NM_001127891:c.C600T:p.T200T	rs1053605	P129
chr17	1509478	1509478	G	A	exonic	synonymous SNV	PRPF8	NM_006445:c.C5061T:p.Y1687Y		P129
chr17	7517813	7517813	T	G	exonic	nonsynonymous SNV	TP53	NM_001126115:c.A454C:p.T152P		0 P129
chr17	10495647	10495647	C	T	exonic	nonsynonymous SNV	MYH3	NM_002470:c.G412A:p.E138K		0.36 P129
chr17	26532901	26532901	G	A	exonic	synonymous SNV	NF1	NM_000267:c.G702A:p.L234L	rs1801052	P129
chr17	75956371	75956371	G	A	exonic	synonymous SNV	RNF213	NM_020914:c.G12135A:p.P4045P	rs77506504	P129
chr18	6973194	6973194	G	T	exonic	synonymous SNV	LAMA1	NM_005559:c.C5700A:p.T1900T	rs11661974	P129
chr18	6975270	6975270	C	T	exonic	nonsynonymous SNV	LAMA1	NM_005559:c.G5626A:p.A1876T	rs11664063	0.57 P129
chr18	7007322	7007322	A	G	exonic	synonymous SNV	LAMA1	NM_005559:c.T2763C:p.C921C	rs539713	P129
chr19	43651520	43651520	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C3456T:p.I1152I	rs11083462	P129
chr19	43682454	43682454	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C7281T:p.A2427A	rs77310009	P129
chr19	43683440	43683440	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C7584T:p.P2528P	rs1465698	P129
chr19	43701893	43701893	C	T	exonic	synonymous SNV	RYR1	NM_000540:c.C10218T:p.Y3406Y	rs41274330	P129
chr19	47959907	47959907	C	T	splicing		PSG8			P129
chr19	48267714	48267714	T	C	exonic	synonymous SNV	PSG2	NM_031246:c.A942G:p.T314T	rs3746096	P129
chr19	48271482	48271482	A	G	exonic	synonymous SNV	PSG2	NM_031246:c.T573C:p.H191H	rs77796305	P129
chr19	60040843	60040843	G	A	exonic;splicing	nonsynonymous SNV	KIR2DS4	NM_012314:c.G71A:p.G24E	rs58731871	0 P129
chr19	60041085	60041085	C	A	exonic	nonsynonymous SNV	KIR2DS4	NM_012314:c.C313A:p.P105T	rs1130492	0.76 P129
chr19	60069895	60069895	T	C	exonic	nonsynonymous SNV	KIR3DL2	NM_006737:c.T1265C:p.L422P	rs58413124	1 P129
chr19	61102034	61102034	C	T	exonic	synonymous SNV	NLRP13	NM_176810:c.G2871A:p.L957L	rs302827	P129
chr20	23369101	23369101	G	A	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.G197A:p.R66K	rs17757442	0.58 P129
chr20	23372638	23372638	C	T	exonic	nonsynonymous SNV	CSTL1	NM_138283:c.C287T:p.T96M	rs3746737	0.01 P129
chr20	52219626	52219626	G	A	exonic	synonymous SNV	CYP24A1	NM_000782:c.C552T:p.A184A	rs2296241	P129
chr21	45724838	45724838	C	T	exonic	synonymous SNV	COL18A1	NM_030582:c.C1968T:p.F656F	rs2236467	P129
chr21	45737905	45737905	G	C	exonic	nonsynonymous SNV	COL18A1	NM_030582:c.G2880C:p.Q960H	rs2230693	P129
chr21	45751917	45751917	A	G	exonic	synonymous SNV	COL18A1	NM_030582:c.A3762G:p.T1254T	rs12483761	P129
chr21	45755537	45755537	G	A	exonic	nonsynonymous SNV	COL18A1	NM_030582:c.G4309A:p.D1437N	rs12483377	P129
chr22	39877954	39877954	A	G	exonic	nonsynonymous SNV	EP300	NM_001429:c.A2989G:p.I997V	rs20551	0.29 P129

chr22	39880985	39880985	T	A	exonic	synonymous SNV	EP300	NM_001429:c.T3183A;p.T1061T	rs20552		P129
chrX	32290917	32290917	C	T	exonic	nonsynonymous SNV	DMD	NM_004011:c.G1211A;p.R404H	rs1801187	0.01	P129
chrX	32293207	32293207	C	T	exonic	nonsynonymous SNV	DMD	NM_004011:c.G853A;p.V285M		0.14	P129
chrX	1.54E+08	1.54E+08	C	T	exonic	nonsynonymous SNV	F8	NM_000132:c.G5000A;p.R1667Q		0.01	P129
chr18	7039077	7039077	G	A	exonic;splicing	synonymous SNV	LAMA1	NM_005559:c.C768T;p.R256R			P128
chr2	1.7E+08	1.7E+08	G	C	exonic	synonymous SNV	LRP2	NM_004525:c.C13062G;p.P4354P			P115
chr2	2.12E+08	2.12E+08	G	A	exonic	nonsynonymous SNV	ERBB4	NM_001042599:c.C2275T;p.P759S		0.02	P115