

Table S2. A complete list of somatic point mutations identified in 22 colorectal cancer patients by exome sequencing.

Chrom	Start	End	Ref	Obs	Func	ExonicFunc	Gene	Amino acid change	dbsnp_id	SIFT	mutated	sample
chr1	94285138	94285138	C	T	exonic	nonsynonymous SNV	ABCA4	NM_000350:c.G2843A:p.R948H		0.13	D15	
chr1	1.17E+08	1.17E+08	C	T	exonic	synonymous SNV	TTF2	NM_003594:c.C1107T:p.P369P			D15	
chr1	1.75E+08	1.75E+08	C	T	exonic	nonsynonymous SNV	ASTN1	NM_004319:c.G2530A:p.D844N		0.01	D15	
chr1	1.98E+08	1.98E+08	C	T	exonic	synonymous SNV	FAM58B	NM_001105517:c.C252T:p.A84A			D15	
chr2	26852797	26852797	G	A	exonic	nonsynonymous SNV	C2orf18	NM_017877:c.G589A:p.E197K		0	D15	
chr2	53810098	53810098	C	G	splicing		ASB3				D15	
chr2	1.45E+08	1.45E+08	C	T	exonic	synonymous SNV	ZEB2	NM_001171653:c.G144A:p.E48E			D15	
chr2	1.45E+08	1.45E+08	C	G	exonic	nonsynonymous SNV	ZEB2	NM_001171653:c.G142C:p.E48Q		0.01	D15	
chr2	1.79E+08	1.79E+08	T	C	exonic	synonymous SNV	TTN	NM_003319:c.A3123G:p.K1041K			D15	
chr2	1.89E+08	1.89E+08	C	T	exonic	nonsynonymous SNV	DIRC1	NM_052952:c.G61A:p.G21R			D15	
chr4	89196305	89196305	C	T	exonic	nonsynonymous SNV	PKD2	NM_000297:c.C1760T:p.S587L		0	D15	
chr4	1.51E+08	1.51E+08	G	A	exonic;splicing	nonsynonymous SNV	DCLK2	NM_001040260:c.G1778A:p.S593N		0.01	D15	
chr5	55458586	55458586	C	T	exonic	synonymous SNV	ANKRD55	NM_024669:c.G717A:p.A239A			D15	
chr5	77599150	77599150	C	T	exonic	nonsynonymous SNV	AP3B1	NM_003664:c.G154A:p.E52K		0.01	D15	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C793T:p.R265X		0	D15	
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3862T:p.E1288X		0.1	D15	
chr6	26515898	26515898	G	C	exonic	nonsynonymous SNV	BTN3A1	NM_001145009:c.G454C:p.V152L		0.04	D15	
chr6	28335391	28335391	C	T	exonic	nonsynonymous SNV	NKAPL	NM_001007531:c.C263T:p.S88L		0	D15	
chr6	38837533	38837533	G	A	exonic	synonymous SNV	DNAH8	NM_001371:c.G942A:p.T314T			D15	
chr7	11642998	11642998	G	A	exonic	synonymous SNV	THSD7A	NM_015204:c.C306T:p.A102A			D15	
chr7	43560758	43560758	C	T	exonic	nonsynonymous SNV	HECW1	NM_015052:c.C4553T:p.A1518V		0.36	D15	
chr7	75532151	75532151	T	G	exonic	nonsynonymous SNV	MDH2	NM_005918:c.T829G:p.F277V		0	D15	
chr7	1.5E+08	1.5E+08	C	T	exonic	nonsynonymous SNV	GIMAP4	NM_018326:c.C941T:p.A314V		0.66	D15	
chr8	95947016	95947016	C	T	exonic	nonsynonymous SNV	INTS8	NM_017864:c.C2183T;p.S728F		0	D15	
chr9	1.22E+08	1.22E+08	G	A	exonic	nonsynonymous SNV	CDK5RAP2	NM_001011649:c.C4222T;p.R1408C		0	D15	
chr10	27366949	27366949	C	T	exonic	nonsynonymous SNV	ANKRD26	NM_014915:c.G2416A:p.D806N		0.13	D15	
chr10	35969436	35969436	C	G	exonic	nonsynonymous SNV	FZD8	NM_031866:c.G928C:p.E310Q		0	D15	
chr11	54892778	54892778	C	A	exonic	synonymous SNV	OR4A15	NM_001005275:c.C843A:p.P281P			D15	
chr11	66213978	66213978	G	A	exonic	synonymous SNV	SPTBN2	NM_006946:c.C5823T;p.S1941S			D15	
chr11	1.28E+08	1.28E+08	T	A	exonic	stopgain SNV	KCNJ1	NM_000220:c.A568T:p.K190X		0.02	D15	
chr12	43457352	43457352	C	T	exonic	nonsynonymous SNV	NELL2	NM_001145108:c.G619A:p.D207N		0	D15	
chr12	51355258	51355258	C	T	exonic	nonsynonymous SNV	KRT1	NM_006121:c.G1921A;p.G641R		0.1	D15	
chr12	54768144	54768144	A	G	exonic	nonsynonymous SNV	ERBB3	NM_001982:c.A805G:p.T269A		0.04	D15	
chr12	1.01E+08	1.01E+08	G	A	exonic	synonymous SNV	GNPTAB	NM_024312:c.C2613T;p.G871G			D15	
chr13	47517803	47517803	A	G	exonic	nonsynonymous SNV	NUDT15	NM_018283:c.A362G:p.E121G		0.14	D15	
chr13	98951999	98951999	C	A	exonic	nonsynonymous SNV	TM9SF2	NM_004800:c.C138A:p.F46L		0.04	D15	
chr15	26031844	26031844	C	T	exonic	nonsynonymous SNV	HERC2	NM_004667:c.G14200A:p.A4734T		0	D15	
chr16	56057607	56057607	T	A	exonic	nonsynonymous SNV	POLR2C	NM_032940:c.T225A:p.S75R		0	D15	
chr17	7519221	7519221	A	G	exonic	nonsynonymous SNV	TP53	NM_001126115:c.T38C:p.L13P		0	D15	
chr17	39244022	39244022	C	T	exonic	nonsynonymous SNV	MPP3	NM_001932:c.G1333A;p.D445N		0.12	D15	
chr18	28514445	28514445	G	A	exonic	nonsynonymous SNV	KLHL14	NM_020805:c.C1354T;p.R452C		0.04	D15	
chr18	59622707	59622707	C	T	exonic	nonsynonymous SNV	SERPINB7	NM_001040147:c.C1001T;p.T334I		0.01	D15	
chr19	23334287	23334287	C	A	exonic	nonsynonymous SNV	ZNF91	NM_003430:c.G3334T;p.G1112C			D15	
chr19	57019765	57019765	C	A	exonic	nonsynonymous SNV	FPR3	NM_002030:c.C952A:p.P318T		0.54	D15	
chr19	61728238	61728238	C	G	exonic	synonymous SNV	ZNF471	NM_020813:c.C990G;p.G330G			D15	
chr19	62696955	62696955	A	T	exonic	nonsynonymous SNV	ZNF419	NM_001098495:c.A1083T;p.R361S		0.01	D15	
chr20	18234401	18234401	C	T	exonic	nonsynonymous SNV	ZNF133	NM_001083330:c.C71T;p.T24I		0.11	D15	
chr20	31071843	31071843	G	T	exonic	nonsynonymous SNV	BPIL1	NM_025227:c.G1129T;p.G377W		0	D15	

chr20	31225590	31225590	C	T	exonic	nonsynonymous SN\ C20orf70	NM_080574:c.C347T:p.P116L	1	D15	
chr20	33741891	33741891	C	T	exonic	nonsynonymous SN\ NFS1	NM_021100:c.G419A:p.R140Q	0.22	D15	
chrX	18935361	18935361	G	A	exonic	synonymous SNV GPR64	NM_001184835:c.C1488T:p.Y496Y		D15	
chrX	53475783	53475783	G	A	exonic	nonsynonymous SN\ HSD17B10	NM_001037811:c.C364T:p.L122F	0.01	D15	
chrX	63481764	63481764	G	A	exonic	stopgain SNV MTMR8	NM_017677:c.C751T:p.R251X	0.16	D15	
chrX	1E+08	1E+08	C	T	exonic	nonsynonymous SN\ BTK	NM_000061:c.G1279A:p.V427M	0	D15	
chrX	1.38E+08	1.38E+08	A	T	exonic	stopgain SNV FGF13	NM_004114:c.T465A:p.Y155X	0.09	D15	
chr1	65834793	65834793	C	G	exonic	nonsynonymous SN\ LEPR	NM_001198687:c.C778G:p.P260A	0.04	D3	
chr1	1.68E+08	1.68E+08	G	A	exonic	nonsynonymous SN\ SLC19A2	NM_006996:c.C823T:p.R275C	0.02	D3	
chr1	2.03E+08	2.03E+08	T	A	exonic	nonsynonymous SN\ DSTYK	NM_199462:c.A2634T:p.R878S	0.56	D3	
chr1	2.05E+08	2.05E+08	A	G	exonic	nonsynonymous SN\ IL19	NM_153758:c.A52G:p.T18A		D3	
chr1	2.17E+08	2.17E+08	C	T	exonic	nonsynonymous SN\ TGFB2	NM_003238:c.C917T:p.A306V	0.18	D3	
chr1	2.28E+08	2.28E+08	G	A	exonic	nonsynonymous SN\ GALNT2	NM_004481:c.G1153A:p.A385T	0.01	D3	
chr2	20701770	20701770	G	A	exonic	nonsynonymous SN\ HS1BP3	NM_022460:c.C530T:p.A177V	0.15	D3	
chr2	21089595	21089595	C	A	exonic	synonymous SNV APOB	NM_000384:c.G4158T:p.R1386R		D3	
chr2	61157681	61157681	A	C	exonic	nonsynonymous SN\ KIAA1841	NM_001129993:c.A554C:p.Q185P		D3	
chr2	1.02E+08	1.02E+08	T	C	exonic	nonsynonymous SN\ IL18RAP	NM_003853:c.T632C:p.V211A	0.02	D3	
chr2	1.79E+08	1.79E+08	A	G	exonic	synonymous SNV FKBP7	NM_001135212:c.T517C:p.L173L		D3	
chr2	1.92E+08	1.92E+08	C	T	exonic	nonsynonymous SN\ STAT4	NM_003151:c.G733A:p.A245T	0	D3	
chr2	2.17E+08	2.17E+08	G	A	exonic	nonsynonymous SN\ XRCC5	NM_021141:c.G721A:p.E241K	0.06	D3	
chr3	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SN\ ALDH1L1	NM_012190:c.G897A:p.M299I		D3	
chr3	1.31E+08	1.31E+08	T	C	exonic	nonsynonymous SN\ IFT122	NM_052990:c.T1783C:p.F595L	rs73204230	0.01	D3
chr3	1.31E+08	1.31E+08	C	T	exonic	synonymous SNV IFT122	NM_052990:c.C1794T:p.A598A	rs73204231		D3
chr3	1.43E+08	1.43E+08	C	T	exonic	nonsynonymous SN\ ATP1B3	NM_001679:c.C260T:p.P87L		0.11	D3
chr3	1.44E+08	1.44E+08	T	G	exonic	nonsynonymous SN\ ATR	NM_001184:c.A7842C:p.L2614F		0.11	D3
chr3	1.5E+08	1.5E+08	G	T	exonic	nonsynonymous SN\ GYG1	NM_001184720:c.G746T:p.W249L		0	D3
chr3	1.59E+08	1.59E+08	C	A	exonic	nonsynonymous SN\ VEPH1	NM_001167917:c.G165T:p.Q55H		0.01	D3
chr3	1.62E+08	1.62E+08	G	A	exonic	nonsynonymous SN\ TRIM59	NM_173084:c.C772T:p.R258C		0.04	D3
chr4	77004624	77004624	A	T	exonic	nonsynonymous SN\ PPEF2	NM_006239:c.T2001A:p.D667E			D3
chr4	82284413	82284413	G	A	exonic	nonsynonymous SN\ PRKG2	NM_006259:c.C1250T:p.A417V		0.13	D3
chr4	1.01E+08	1.01E+08	G	A	exonic	nonsynonymous SN\ MTTT	NM_000253:c.G424A:p.A142T		0.51	D3
chr5	40879235	40879235	G	T	exonic	nonsynonymous SN\ CARD6	NM_032587:c.G508T:p.D170Y		0.08	D3
chr5	1.02E+08	1.02E+08	A	T	exonic	nonsynonymous SN\ PAM	NM_000919:c.A1229T:p.Y410F		0.33	D3
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV APC	NM_001127511:c.G1843T:p.E615X		0.01	D3
chr5	1.19E+08	1.19E+08	G	T	exonic	stopgain SNV HSD17B4	NM_001199292:c.G1252T:p.G418X		0.05	D3
chr5	1.31E+08	1.31E+08	G	T	exonic	nonsynonymous SN\ ACSL6	NM_001205251:c.C875A:p.P292Q		0	D3
chr5	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\ GRIA1	NM_000827:c.G907T:p.A303S		0	D3
chr6	8364910	8364910	C	T	splicing	SLC35B3				D3
chr6	26135194	26135194	T	C	exonic	nonsynonymous SN\ HIST1H4B	NM_003544:c.A266G:p.Y89C			D3
chr6	1.12E+08	1.12E+08	G	A	exonic	stopgain SNV FYN	NM_153047:c.C1165T:p.R389X		1	D3
chr6	1.3E+08	1.3E+08	C	T	exonic	synonymous SNV LAMA2	NM_000426:c.C7056T:p.S2352S			D3
chr6	1.39E+08	1.39E+08	C	A	exonic	nonsynonymous SN\ KIAA1244	NM_020340:c.C4850A:p.A1617D		0	D3
chr6	1.53E+08	1.53E+08	A	T	exonic	nonsynonymous SN\ SYNE1	NM_033071:c.T9793A:p.S3265T		0.36	D3
chr7	29946986	29946986	C	A	exonic	synonymous SNV SCR1	NM_001145515:c.G372T:p.S124S			D3
chr7	43630712	43630712	T	A	exonic	nonsynonymous SN\ STK17A	NM_004760:c.T991A:p.F331I		0.47	D3
chr7	91512347	91512347	G	A	exonic	nonsynonymous SN\ AKAP9	NM_005751:c.G5252A:p.R1751H		0.06	D3
chr7	1.21E+08	1.21E+08	T	C	exonic	nonsynonymous SN\ PTPRZ1	NM_002851:c.T5978C:p.I1993T			D3
chr7	1.39E+08	1.39E+08	A	G	exonic	nonsynonymous SN\ PARP12	NM_022750:c.T895C:p.Y299H		0	D3
chr7	1.41E+08	1.41E+08	C	A	exonic	nonsynonymous SN\ TAS2R5	NM_018980:c.C496A:p.Q166K		1	D3
chr8	41664844	41664844	A	T	exonic	synonymous SNV ANK1	NM_000037:c.T4245A:p.G1415G			D3
chr8	66768438	66768438	C	T	exonic	synonymous SNV MTFR1	NM_001145838:c.C72T:p.N24N			D3
chr8	94846825	94846825	G	A	exonic	synonymous SNV TMEM67	NM_153704:c.G522A:p.E174E			D3
chr9	21207084	21207084	G	A	exonic	nonsynonymous SN\ IFNA16	NM_002173:c.C221T:p.A74V		0.03	D3

chr9	32479405	32479405	A	G	exonic	nonsynonymous SN\ DDX58	NM_014314:c.T736C:p.Y246H	0	D3	
chr9	99177587	99177587	C	T	exonic	synonymous SNV C9orf174	NM_020893:c.C4869T:p.V1623V		D3	
chr9	1.37E+08	1.37E+08	G	T	exonic	nonsynonymous SN\ FCN1	NM_002003:c.C266A:p.P89H	0	D3	
chr9	1.38E+08	1.38E+08	C	T	exonic	nonsynonymous SN\ SOHLH1	NM_001012415:c.G343A:p.A115T	0.19	D3	
chr10	35367956	35367956	A	T	exonic	nonsynonymous SN\ CUL2	NM_001198777:c.T775A:p.Y259N	0.13	D3	
chr10	97184457	97184457	G	A	exonic	synonymous SNV SORBS1	NM_001034954:c.C84T:p.A28A		D3	
chr10	1E+08	1E+08	C	T	exonic	nonsynonymous SN\ LOXL4	NM_032211:c.G1165A:p.D389N	0.11	D3	
chr10	1.02E+08	1.02E+08	T	G	exonic	nonsynonymous SN\ ERLIN1	NM_006459:c.A522C:p.K174N	0.02	D3	
chr10	1.33E+08	1.33E+08	C	A	exonic	synonymous SNV TCERG1L	NM_174937:c.G1551T:p.L517L		D3	
chr11	10483921	10483921	G	A	exonic	nonsynonymous SN\ AMPD3	NM_001172431:c.G1741A:p.A581T	0.01	D3	
chr11	14471814	14471814	T	C	exonic	synonymous SNV COPB1	NM_001144061:c.A441G:p.R147R		D3	
chr11	26421909	26421909	A	G	exonic	nonsynonymous SN\ ANO3	NM_031418:c.A263G:p.N88S	0.55	D3	
chr11	35295601	35295601	T	C	exonic	nonsynonymous SN\ SLC1A2	NM_004171:c.A56G:p.H19R	0.04	D3	
chr11	77267648	77267648	G	A	exonic	nonsynonymous SN\ INTS4	NM_033547:c.C2887T:p.R963C	0	D3	
chr11	1.08E+08	1.08E+08	G	T	exonic	stopgain SNV ATM	NM_000051:c.G64T:p.E22X	0	D3	
chr11	1.33E+08	1.33E+08	G	A	exonic	nonsynonymous SN\ SPATA19	NM_174927:c.C149T:p.A50V	rs2282602	D3	
chr12	21339923	21339923	A	G	exonic	synonymous SNV SLCO1A2	NM_021094:c.T1146C:p.I382I		D3	
chr12	54962499	54962499	T	C	exonic	nonsynonymous SN\ CS	NM_004077:c.A560G:p.Q187R	rs77708038	0.1	D3
chr12	54962511	54962511	C	T	exonic	nonsynonymous SN\ CS	NM_004077:c.G548A:p.R183Q	rs116165297	0.04	D3
chr12	84042322	84042322	G	A	exonic	nonsynonymous SN\ LRR1Q1	NM_001079910:c.G3901A:p.D1301N		0	D3
chr12	94628500	94628500	C	T	exonic	nonsynonymous SN\ NTN4	NM_021229:c.G1030A:p.D344N		0.04	D3
chr12	1.05E+08	1.05E+08	G	A	exonic	nonsynonymous SN\ POLR3B	NM_001160708:c.G248A:p.R83H		0	D3
chr12	1.17E+08	1.17E+08	T	A	exonic	nonsynonymous SN\ TAOK3	NM_016281:c.A1442T:p.K481M		0	D3
chr13	20982195	20982195	G	A	exonic	nonsynonymous SN\ EFHA1	NM_152726:c.C709T:p.R237C		0.03	D3
chr13	38163475	38163475	T	C	exonic	synonymous SNV FREM2	NM_207361:c.T3994C:p.L1332L			D3
chr13	47987729	47987729	A	G	exonic	synonymous SNV RCBTB2	NM_001268:c.T192C:p.N64N			D3
chr13	1.11E+08	1.11E+08	C	T	exonic	nonsynonymous SN\ ARHGEF7	NM_001113512:c.C293T:p.S98F		0	D3
chr14	32361855	32361855	C	T	exonic	synonymous SNV AKAP6	NM_004274:c.C5085T:p.D1695D			D3
chr14	68774138	68774138	C	T	exonic	synonymous SNV EXD2	NM_018199:c.C1011T:p.C337C			D3
chr14	73797280	73797280	G	A	exonic	nonsynonymous SN\ VXS2	NM_182894:c.G991A:p.A331T		0.17	D3
chr15	19305316	19305316	C	T	exonic	nonsynonymous SN\ POTE8	NM_207355:c.G1702A:p.A568T			D3
chr15	42795192	42795192	G	A	splicing	B2M		rs111352556		D3
chr15	56966868	56966868	G	A	exonic	stopgain SNV SLTM	NM_001013843:c.C2485T:p.R829X			D3
chr15	89326114	89326114	T	C	exonic	synonymous SNV PRC1	NM_003981:c.A369G:p.L123L			D3
chr16	2153987	2153987	C	T	exonic	nonsynonymous SN\ TRAF7	NM_032271:c.C65T:p.P22L		0.2	D3
chr17	38423406	38423406	G	A	exonic	synonymous SNV VAT1	NM_006373:c.C834T:p.P278P			D3
chr17	71239883	71239883	C	G	exonic	nonsynonymous SN\ ITGB4	NM_001005619:c.C1422G:p.F474L		0.95	D3
chr18	52756805	52756805	A	G	exonic	nonsynonymous SN\ WDR7	NM_052834:c.A3776G:p.Q1259R		0.08	D3
chr19	15344122	15344122	C	T	exonic	nonsynonymous SN\ AKAP8	NM_005858:c.G898A:p.G300S		0.84	D3
chr19	40450587	40450587	A	T	exonic	nonsynonymous SN\ LSR	NM_205835:c.A1731T:p.E577D		0	D3
chr19	61099128	61099128	C	T	exonic	nonsynonymous SN\ NLRP13	NM_176810:c.G3127A:p.G1043R		0	D3
chr19	61116300	61116300	A	G	exonic	nonsynonymous SN\ NLRP13	NM_176810:c.T695C:p.V232A		0	D3
chr19	61645512	61645512	G	A	exonic	nonsynonymous SN\ ZNF667	NM_022103:c.C664T:p.H222Y		0	D3
chr19	62334384	62334384	C	T	exonic	synonymous SNV USP29	NM_020903:c.C2529T:p.S843S			D3
chr20	56162021	56162021	G	C	exonic	nonsynonymous SN\ C20orf85	NM_178456:c.G84C:p.K28N		0.27	D3
chrX	23855323	23855323	G	A	exonic	nonsynonymous SN\ CXorf58	NM_001169574:c.G470A:p.R157H		0.21	D3
chrX	40458798	40458798	C	T	exonic	nonsynonymous SN\ MED14	NM_004229:c.G457A:p.A153T		0.43	D3
chrX	1.19E+08	1.19E+08	C	T	splicing	SEPT6				D3
chr1	1946244	1946244	G	A	exonic	synonymous SNV GABRD	NM_000815:c.G72A:p.A24A			D11
chr1	22775608	22775608	C	T	exonic	synonymous SNV EPHA8	NM_001006943:c.C471T:p.A157A			D11
chr1	1.5E+08	1.5E+08	C	T	exonic	nonsynonymous SN\ MRPL9	NM_031420:c.G757A:p.A253T		0.2	D11
chr1	1.54E+08	1.54E+08	C	T	exonic	nonsynonymous SN\ RAB25	NM_020387:c.C364T:p.L122F		0	D11
chr1	1.66E+08	1.66E+08	A	C	exonic	nonsynonymous SN\ GPR161	NM_153832:c.T650G:p.V217G		0.06	D11

chr2	30716956	30716956	A	C	exonic	nonsynonymous SN\ LCLAT1	NM_001002257:c.A1098C;p.K366N	0.14	D11
chr2	1.99E+08	1.99E+08	G	A	exonic	synonymous SNV PLCL1	NM_006226:c.G516A;p.T172T		D11
chr2	2.11E+08	2.11E+08	C	A	exonic	nonsynonymous SN\ MYL1	NM_079420:c.G458T;p.R153L		0 D11
chr3	3070549	3070549	C	T	exonic	nonsynonymous SN\ CNTN4	NM_175607:c.C2870T;p.S957L	0.09	D11
chr3	7595588	7595588	T	A	exonic	synonymous SNV GRM7	NM_000844:c.T1995A;p.G665G		D11
chr3	1.35E+08	1.35E+08	A	C	exonic	nonsynonymous SN\ TF	NM_001063:c.A489C;p.K163N	0.14	D11
chr3	1.84E+08	1.84E+08	T	C	exonic	synonymous SNV MCF2L2	NM_015078:c.A2415G;p.L805L	rs61674109	D11
chr4	70195110	70195110	A	G	exonic	synonymous SNV UGT2B28	NM_053039:c.A1584G;p.R528R		D11
chr5	38406255	38406255	G	A	exonic	nonsynonymous SN\ EGFLAM	NM_152403:c.G646A;p.V216M		0 D11
chr5	40800912	40800912	T	C	exonic	nonsynonymous SN\ PRKAA1	NM_006251:c.A1007G;p.H336R		0.2 D11
chr5	82852445	82852445	C	A	exonic	nonsynonymous SN\ VCAN	NM_001164098:c.C2564A;p.T855N		0 D11
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV APC	NM_001127511:c.G3808T;p.G1270X		0.01 D11
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\ HDAC3	NM_003883:c.G884A;p.G295D		0 D11
chr5	1.57E+08	1.57E+08	A	G	exonic	synonymous SNV ITK	NM_005546:c.A267G;p.L89L		D11
chr5	1.58E+08	1.58E+08	C	A	exonic	nonsynonymous SN\ EBF1	NM_024007:c.G1319T;p.S440I		0.03 D11
chr6	73960977	73960977	G	A	exonic	nonsynonymous SN\ KCNQ5	NM_001160134:c.G1588A;p.A530T		1 D11
chr6	1.47E+08	1.47E+08	G	A	exonic	nonsynonymous SN\ GRM1	NM_000838:c.G2362A;p.A788T		0.03 D11
chr6	1.69E+08	1.69E+08	G	A	exonic	synonymous SNV THBS2	NM_003247:c.C3441T;p.G1147G	rs59953407	D11
chr7	99924803	99924803	C	T	exonic	nonsynonymous SN\ C7orf51	NM_173564:c.C1523T;p.P508L		0 D11
chr7	1.03E+08	1.03E+08	A	T	exonic	nonsynonymous SN\ RELN	NM_005045:c.T719A;p.V240D		0 D11
chr7	1.14E+08	1.14E+08	G	T	exonic	nonsynonymous SN\ FOXP2	NM_148899:c.G312T;p.M104I		0.02 D11
chr8	41909356	41909356	C	A	exonic	nonsynonymous SN\ MYST3	NM_006766:c.G5539T;p.G1847W		0 D11
chr9	1.07E+08	1.07E+08	C	A	exonic	synonymous SNV TAL2	NM_005421:c.C34A;p.R12R		D11
chr9	1.25E+08	1.25E+08	A	G	exonic	synonymous SNV RC3H2	NM_001100588:c.T1140C;p.A380A		D11
chr10	97086714	97086714	C	T	exonic	nonsynonymous SN\ SORBS1	NM_001034954:c.G3193A;p.A1065T		0.02 D11
chr11	4860562	4860562	C	T	exonic	nonsynonymous SN\ OR51T1	NM_001004759:c.C938T;p.P313L		0 D11
chr11	40093225	40093225	C	T	exonic	synonymous SNV LRRC4C	NM_020929:c.G1194A;p.A398A		D11
chr11	51268507	51268507	C	T	exonic	synonymous SNV OR4A5	NM_001005272:c.G465A;p.A155A		D11
chr11	55409760	55409760	G	A	exonic	nonsynonymous SN\ SPRYD5	NM_032681:c.G280A;p.G94R		D11
chr11	59613806	59613806	C	T	exonic	nonsynonymous SN\ MS4A2	NM_000139:c.C122T;p.S41L		0.29 D11
chr12	48230370	48230370	G	A	exonic	nonsynonymous SN\ KCNH3	NM_012284:c.G1909A;p.A637T		0 D11
chr12	55110280	55110280	C	T	exonic	nonsynonymous SN\ TIMELESS	NM_003920:c.G962A;p.R321H		0.8 D11
chr12	77036186	77036186	A	G	exonic	synonymous SNV NAV3	NM_014903:c.A3018G;p.G1006G		D11
chr12	1.28E+08	1.28E+08	C	A	exonic	nonsynonymous SN\ TMEM132D	NM_133448:c.G1426T;p.D476Y		0.05 D11
chr13	27899326	27899326	T	G	exonic	nonsynonymous SN\ FLT1	NM_001159920:c.A1406C;p.H469P		0.09 D11
chr13	87128364	87128364	G	A	exonic	nonsynonymous SN\ SLITRK5	NM_015567:c.G2720A;p.G907E		0.61 D11
chr14	52396087	52396087	C	T	exonic	nonsynonymous SN\ FERMT2	NM_006832:c.G1823A;p.R608H		0 D11
chr15	27173807	27173807	C	T	exonic;splicing	nonsynonymous SN\ APBA2	NM_005503:c.C1250T;p.A417V		0.05 D11
chr16	48322253	48322253	G	A	exonic	synonymous SNV ZNF423	NM_015069:c.C207T;p.C69C		D11
chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C421T;p.R141C		0 D11
chr17	7745005	7745005	A	C	exonic	nonsynonymous SN\ CHD3	NM_001005271:c.A3266C;p.N1089T		0 D11
chr17	74378605	74378605	C	T	exonic	nonsynonymous SN\ TIMP2	NM_003255:c.G310A;p.V104I		0.58 D11
chr18	54355969	54355969	A	C	exonic	synonymous SNV ALPK2	NM_052947:c.T2430G;p.G810G		D11
chr18	59796577	59796577	T	C	exonic	synonymous SNV SERPINB8	NM_001031848:c.T55C;p.L19L		D11
chr19	11694306	11694306	C	T	exonic	nonsynonymous SN\ ZNF823	NM_001080493:c.G1043A;p.R348Q		1 D11
chr19	49672827	49672827	G	C	exonic	nonsynonymous SN\ ZNF180	NM_013256:c.C1711G;p.H571D		0 D11
chr20	856988	856988	G	A	exonic	synonymous SNV PLCB1	NM_015192:c.G294A;p.L98L		D11
chr20	54460430	54460430	C	T	exonic	nonsynonymous SN\ CASS4	NM_001164114:c.C629T;p.A210V		0.35 D11
chr20	60856560	60856560	G	A	exonic	nonsynonymous SN\ NTSR1	NM_002531:c.G793A;p.V265I		0.74 D11
chr22	36101314	36101314	G	A	exonic	synonymous SNV ELFN2	NM_052906:c.C207T;p.A69A		D11
chr22	39027265	39027265	A	G	exonic	nonsynonymous SN\ TNRC6B	NM_015088:c.A3772G;p.I1258V		D11
chrX	1.01E+08	1.01E+08	G	A	exonic	nonsynonymous SN\ ARMCX1	NM_016608:c.G97A;p.E33K		0.06 D11
chrX	1.53E+08	1.53E+08	A	C	exonic	nonsynonymous SN\ RENBP	NM_002910:c.T793G;p.F265V		0 D11

chr1	33262636	33262636	C	G	exonic	synonymous SNV	AK2	NM_001199199:c.G213C:p.G71G	D12
chr1	36242569	36242569	G	T	exonic	nonsynonymous SNV	EIF2C3	NM_024852:c.G699T:p.Q233H	0 D12
chr1	70277383	70277383	C	T	exonic	synonymous SNV	LRRCC7	NM_020794:c.C3174T:p.Y1058Y	D12
chr1	86732536	86732536	A	C	exonic	nonsynonymous SNV	CLCA1	NM_001285:c.A1759C:p.T587P	0.07 D12
chr1	1.09E+08	1.09E+08	G	A	exonic	nonsynonymous SNV	HENMT1	NM_001102592:c.C304T:p.R102W	0 D12
chr1	1.49E+08	1.49E+08	T	G	exonic	nonsynonymous SNV	SETDB1	NM_001145415:c.T791G:p.V264G	0.06 D12
chr1	1.52E+08	1.52E+08	T	G	exonic	nonsynonymous SNV	S100A4	NM_002961:c.A43C:p.T15P	0.06 D12
chr1	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SNV	SHE	NM_001010846:c.G667A:p.G223R	0.05 D12
chr1	1.6E+08	1.6E+08	T	G	splicing		FCGR2A		D12
chr1	1.7E+08	1.7E+08	A	C	exonic	nonsynonymous SNV	MYOC	NM_000261:c.T1169G:p.V390G	0.07 D12
chr1	1.8E+08	1.8E+08	A	G	exonic	nonsynonymous SNV	CACNA1E	NM_000721:c.A481G:p.N161D	0 D12
chr1	2.26E+08	2.26E+08	T	G	exonic	synonymous SNV	ZNF678	NM_178549:c.T525G:p.T175T	D12
chr2	73535837	73535837	C	A	exonic	stopgain SNV	ALMS1	NM_015120:c.C7578A:p.Y2526X	0 D12
chr2	1.52E+08	1.52E+08	A	C	exonic	nonsynonymous SNV	NEB	NM_001164507:c.T5102G:p.V1701G	0.01 D12
chr2	1.75E+08	1.75E+08	A	C	exonic	nonsynonymous SNV	GPR155	NM_152529:c.T2429G:p.V810G	0.01 D12
chr2	1.75E+08	1.75E+08	A	G	exonic	nonsynonymous SNV	CHN1	NM_001025201:c.T1076C:p.L359P	D12
chr2	1.79E+08	1.79E+08	T	G	exonic	nonsynonymous SNV	TTN	NM_003319:c.A30204C:p.L10068F	D12
chr2	1.82E+08	1.82E+08	T	A	exonic	nonsynonymous SNV	CERKL	NM_001030312:c.A1031T:p.N344I	0 D12
chr2	1.86E+08	1.86E+08	C	T	exonic	nonsynonymous SNV	ZNF804A	NM_194250:c.C455T:p.S152F	0 D12
chr2	1.86E+08	1.86E+08	T	C	exonic	nonsynonymous SNV	FSIP2	NM_173651:c.T5833C:p.S1945P	D12
chr2	1.98E+08	1.98E+08	A	C	splicing		SF3B1		D12
chr2	2.36E+08	2.36E+08	C	T	exonic;splicing	synonymous SNV	AGAP1	NM_001037131:c.C672T:p.D224D	D12
chr3	12760397	12760397	A	C	splicing		TMEM40		D12
chr3	42756291	42756291	G	C	exonic	nonsynonymous SNV	CCDC13	NM_144719:c.C1003G:p.R335G	0.16 D12
chr3	64574073	64574073	A	C	exonic	synonymous SNV	ADAMTS9	NM_182920:c.T3342G:p.G1114G	D12
chr3	1.03E+08	1.03E+08	C	T	exonic	nonsynonymous SNV	ZBTB11	NM_014415:c.G2042A:p.C681Y	0 D12
chr3	1.25E+08	1.25E+08	C	T	exonic	nonsynonymous SNV	KALRN	NM_001024660:c.C5T:p.T2M	0 D12
chr3	1.85E+08	1.85E+08	T	G	exonic	nonsynonymous SNV	ALG3	NM_001006941:c.A199C:p.T67P	D12
chr3	1.87E+08	1.87E+08	C	A	exonic	nonsynonymous SNV	DGKG	NM_001080744:c.G490T:p.V164F	0 D12
chr4	66150338	66150338	T	G	exonic	nonsynonymous SNV	EPHA5	NM_004439:c.A526C:p.T176P	0 D12
chr4	71425203	71425203	C	A	exonic	nonsynonymous SNV	AMTN	NM_212557:c.C230A:p.P77H	0.5 D12
chr5	90122767	90122767	C	T	exonic	nonsynonymous SNV	GPR98	NM_032119:c.C14365T:p.R4789W	D12
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C667T:p.R223X	0 D12
chr5	1.41E+08	1.41E+08	T	G	exonic	nonsynonymous SNV	PCDHGB1	NM_018922:c.T2000G:p.V667G	D12
chr5	1.49E+08	1.49E+08	C	T	exonic	synonymous SNV	PDGFRB	NM_002609:c.G780A:p.P260P	D12
chr6	18257329	18257329	A	C	exonic	synonymous SNV	TPMT	NM_000367:c.T9G:p.G3G	D12
chr6	26074866	26074866	A	C	exonic	nonsynonymous SNV	TRIM38	NM_006355:c.A137C:p.N46T	0.04 D12
chr6	47790416	47790416	C	T	exonic	synonymous SNV	GPR115	NM_153838:c.C1476T:p.L492L	D12
chr6	88023408	88023408	T	G	exonic	nonsynonymous SNV	ZNF292	NM_015021:c.T3342G:p.S1114R	0 D12
chr6	1.63E+08	1.63E+08	C	T	exonic	synonymous SNV	PARK2	NM_004562:c.G219A:p.P73P	D12
chr7	22982837	22982837	C	T	exonic;splicing	nonsynonymous SNV	FAM126A	NM_032581:c.G530A:p.R177Q	0 D12
chr7	43250044	43250044	G	C	exonic	synonymous SNV	HECW1	NM_015052:c.G15C:p.L5L	D12
chr7	1.03E+08	1.03E+08	G	A	exonic	synonymous SNV	RELN	NM_005045:c.C9531T:p.A3177A	D12
chr7	1.07E+08	1.07E+08	A	C	exonic	nonsynonymous SNV	GPR22	NM_005295:c.A92C:p.Y31S	0.43 D12
chr8	77928742	77928742	C	A	exonic	nonsynonymous SNV	ZFX4	NM_024721:c.C7030A:p.Q2344K	0.66 D12
chr9	35605952	35605952	A	G	exonic	nonsynonymous SNV	CD72	NM_001782:c.T676C:p.C226R	0 D12
chr9	35796395	35796395	T	G	exonic	synonymous SNV	NPR2	NM_003995:c.T2379G:p.G793G	D12
chr9	96919418	96919418	C	T	exonic;splicing	nonsynonymous SNV	FANCC	NM_000136:c.G1072A:p.D358N	0.07 D12
chr9	1.35E+08	1.35E+08	T	G	exonic	nonsynonymous SNV	GTF3C5	NM_001122823:c.T749G:p.V250G	0.54 D12
chr9	1.38E+08	1.38E+08	G	A	exonic	nonsynonymous SNV	QSOX2	NM_181701:c.C1828T:p.R610C	D12
chr10	49955369	49955369	C	T	exonic	nonsynonymous SNV	C10orf72	NM_001031746:c.G535A:p.V179M	0.06 D12
chr10	60228840	60228840	A	C	exonic	nonsynonymous SNV	BICC1	NM_001080512:c.A1547C:p.H516P	0.02 D12
chr10	97366344	97366344	G	C	exonic	nonsynonymous SNV	ALDH18A1	NM_001017423:c.C1479G:p.I493M	0.28 D12

chr10	1.02E+08	1.02E+08	T	C	exonic	nonsynonymous SN\ SEC31B	NM_015490:c.A278G:p.D93G	0.03	D12
chr10	1.03E+08	1.03E+08	A	C	exonic	nonsynonymous SN\ SEMA4G	NM_001203244:c.A407C:p.H136P	0.25	D12
chr10	1.13E+08	1.13E+08	G	A	exonic	nonsynonymous SN\ RBM20	NM_001134363:c.G1252A:p.D418N	0.59	D12
chr11	44061689	44061689	A	C	exonic	nonsynonymous SN\ ACCS	NM_001127219:c.A1394C:p.H465P	0.27	D12
chr11	45943730	45943730	T	G	exonic	synonymous SNV PHF21A	NM_001101802:c.A705C:p.R235R		D12
chr11	47157629	47157629	T	G	exonic	nonsynonymous SN\ PACSIN3	NM_001184974:c.A688C:p.T230P	0.06	D12
chr11	62241057	62241057	C	T	exonic	nonsynonymous SN\ HNRNPUL2	NM_001079559:c.G1961A:p.R654Q		D12
chr11	65523643	65523643	G	A	exonic	synonymous SNV EIF1AD	NM_032325:c.C276T:p.H92H		D12
chr11	1.05E+08	1.05E+08	A	C	exonic	nonsynonymous SN\ GRIA4	NM_000829:c.A2548C:p.T850P	0.09	D12
chr11	1.11E+08	1.11E+08	T	G	exonic	nonsynonymous SN\ FDXACB1	NM_138378:c.A797C:p.Y266S	0.05	D12
chr11	1.25E+08	1.25E+08	T	G	exonic	nonsynonymous SN\ HYLS1	NM_001134793:c.T646G:p.Y216D	0.03	D12
chr12	25269829	25269829	C	T	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G436A:p.A146T	0.01	D12
chr12	99542373	99542373	A	C	exonic	nonsynonymous SN\ GAS2L3	NM_174942:c.A1659C:p.K553N	0	D12
chr12	1.23E+08	1.23E+08	A	G	exonic	nonsynonymous SN\ DNAH10	NM_207437:c.A7637G:p.E2546G		D12
chr13	85267292	85267292	C	A	exonic	synonymous SNV SLITRK6	NM_032229:c.G1353T:p.L451L		D12
chr14	63819357	63819357	A	G	exonic	nonsynonymous SN\ ESR2	NM_001040275:c.T100C:p.S34P	0	D12
chr14	93487143	93487143	C	T	exonic	nonsynonymous SN\ ASB2	NM_016150:c.G691A:p.A231T	0	D12
chr15	30979470	30979470	A	C	splicing	FMN1			D12
chr16	21089391	21089391	A	C	exonic	nonsynonymous SN\ TMEM159	NM_020422:c.A229C:p.T77P	0.27	D12
chr16	23131937	23131937	C	T	exonic	nonsynonymous SN\ SCNN1G	NM_001039:c.C1445T:p.P482L	0.14	D12
chr16	45287007	45287007	T	G	exonic	nonsynonymous SN\ ORC6	NM_014321:c.T482G:p.M161R	0.01	D12
chr16	56358343	56358343	T	G	exonic	nonsynonymous SN\ KIFC3	NM_001130099:c.A857C:p.Y286S	0	D12
chr16	70651784	70651784	C	T	exonic	nonsynonymous SN\ HP	NM_001126102:c.C538T:p.H180Y	0.04	D12
chr16	82996298	82996298	A	G	exonic	nonsynonymous SN\ ATP2C2	NM_014861:c.A274G:p.N92D	rs75488406	D12
chr17	625832	625832	A	C	exonic	synonymous SNV GLOD4	NM_016080:c.T339G:p.G113G		D12
chr17	7518937	7518937	G	A	exonic	stopgain SNV TP53	NM_001126115:c.C241T:p.R81X	0	D12
chr17	10478922	10478922	A	C	exonic	nonsynonymous SN\ MYH3	NM_002470:c.T4316G:p.L1439W	0.18	D12
chr17	33173716	33173716	C	T	exonic	nonsynonymous SN\ HNF1B	NM_000458:c.G372A:p.M124I	0.38	D12
chr17	38091551	38091551	G	A	exonic	nonsynonymous SN\ CNTNAP1	NM_003632:c.G766A:p.G256R	0.02	D12
chr17	62562583	62562583	A	C	exonic	synonymous SNV HELZ	NM_014877:c.T3147G:p.G1049G		D12
chr17	68865835	68865835	G	A	exonic	synonymous SNV SDK2	NM_001144952:c.C5571T:p.Y1857Y		D12
chr17	71030953	71030953	G	A	exonic	nonsynonymous SN\ TSEN54	NM_207346:c.G1255A:p.V419M	0.05	D12
chr17	75938763	75938763	C	T	exonic	nonsynonymous SN\ RNF213	NM_020914:c.C10303T:p.R3435C	0.07	D12
chr19	1751375	1751375	T	G	exonic	nonsynonymous SN\ ATP8B3	NM_001178002:c.A1085C:p.D362A	0.38	D12
chr19	8934925	8934925	T	G	exonic	synonymous SNV MUC16	NM_024690:c.A13521C:p.S4507S		D12
chr19	8948873	8948873	G	T	exonic	nonsynonymous SN\ MUC16	NM_024690:c.C3942A:p.N1314K		D12
chr19	16942714	16942714	T	G	exonic	synonymous SNV CPAMD8	NM_015692:c.A2341C:p.R781R		D12
chr19	39524815	39524815	A	C	exonic	synonymous SNV KIAA0355	NM_014686:c.A2136C:p.T712T		D12
chr19	41045683	41045683	T	C	exonic	nonsynonymous SN\ KIRREL2	NM_199179:c.T1480C:p.S494P	0	D12
chr19	63077895	63077895	G	T	exonic	synonymous SNV ZNF814	NM_001144989:c.C675A:p.T225T		D12
chr20	10569429	10569429	A	C	splicing	JAG1			D12
chr20	36385834	36385834	T	G	exonic	nonsynonymous SN\ BPI	NM_001725:c.T917G:p.V306G	0.33	D12
chr21	41729647	41729647	A	C	exonic	nonsynonymous SN\ MX1	NM_001178046:c.A119C:p.N40T	0.66	D12
chrX	1.35E+08	1.35E+08	C	A	exonic	nonsynonymous SN\ GPR112	NM_153834:c.C5330A:p.A1777D	0	D12
chrX	1.38E+08	1.38E+08	T	G	exonic	nonsynonymous SN\ FGF13	NM_004114:c.A547C:p.N183H	0	D12
chr1	2.14E+08	2.14E+08	G	T	exonic	nonsynonymous SN\ USH2A	NM_206933:c.C9874A:p.Q3292K	0.36	D14
chr2	27584117	27584117	C	A	exonic	synonymous SNV GCKR	NM_001486:c.C1209A:p.I403I		D14
chr5	1.71E+08	1.71E+08	G	A	exonic;splicing	synonymous SNV NPM1	NM_001037738:c.G258A:p.T86T		D14
chr6	1.45E+08	1.45E+08	T	C	exonic	synonymous SNV UTRN	NM_007124:c.T5985C:p.A1995A		D14
chr7	2946070	2946070	G	A	exonic	nonsynonymous SN\ CARD11	NM_032415:c.C703T:p.R235W	0.01	D14
chr9	1.32E+08	1.32E+08	G	A	exonic	nonsynonymous SN\ ASS1	NM_054012:c.G911A:p.R304Q	0.01	D14
chr11	7024591	7024591	T	A	exonic	nonsynonymous SN\ NLRP14	NM_176822:c.T2075A:p.I692N	0.1	D14
chr11	7280905	7280905	G	A	exonic	nonsynonymous SN\ SYT9	NM_175733:c.G205A:p.V69M	0	D14

chr11	55352095	55352095	C	T	exonic	synonymous SNV	OR5L2	NM_001004739:c.C825T;p.T275T	D14
chr11	1.19E+08	1.19E+08	T	C	exonic	nonsynonymous SNV	CBL	NM_005188:c.T907C;p.W303R	0 D14
chr12	10869422	10869422	C	T	exonic	synonymous SNV	TAS2R10	NM_023921:c.G714A;p.L238L	D14
chr12	32684571	32684571	A	C	exonic	nonsynonymous SNV	FGD4	NM_139241:c.A2138C;p.Q713P	0.02 D14
chr13	22722816	22722816	G	A	exonic	synonymous SNV	SGCG	NM_000231:c.G345A;p.A115A	rs1800352 D14
chr13	97626654	97626654	C	T	exonic	nonsynonymous SNV	RNF113B	NM_178861:c.G838A;p.A280T	0 D14
chr14	31631091	31631091	G	A	exonic	nonsynonymous SNV	ARHGAP5	NM_001030055:c.G1465A;p.E489K	rs78337553 0.04 D14
chr14	77467627	77467627	G	A	exonic	nonsynonymous SNV	ADCK1	NM_001142545:c.G1016A;p.R339H	0.02 D14
chr15	20405268	20405268	G	T	exonic	nonsynonymous SNV	TUBGCP5	NM_001102610:c.G1465T;p.A489S	0.61 D14
chr16	27400007	27400007	C	T	exonic	nonsynonymous SNV	GTF3C1	NM_001520:c.G4090A;p.A1364T	D14
chr17	7514743	7514743	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C613T;p.R205C	0 D14
chr20	22964308	22964308	T	G	exonic	nonsynonymous SNV	SSTR4	NM_001052:c.T188G;p.V63G	0.5 D14
chr20	47561096	47561096	G	A	exonic	nonsynonymous SNV	PTGIS	NM_000961:c.C1234T;p.P412S	0.22 D14
chrX	32501648	32501648	T	A	exonic	stopgain SNV	DMD	NM_004007:c.A1363T;p.K455X	0.05 D14
chrX	66848153	66848153	C	T	exonic	synonymous SNV	AR	NM_000044:c.C2070T;p.H690H	D14
chrX	1.41E+08	1.41E+08	C	G	exonic	nonsynonymous SNV	MAGEC1	NM_005462:c.C1282G;p.P428A	0 D14
chrX	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SNV	IRAK1	NM_001025242:c.G1177A;p.E393K	0.01 D14
chr1	26260410	26260410	C	T	exonic	nonsynonymous SNV	TRIM63	NM_032588:c.G335A;p.R112Q	0.26 D13
chr1	38256833	38256833	T	G	exonic	synonymous SNV	UTP11L	NM_016037:c.T339G;p.A113A	D13
chr1	86804272	86804272	A	G	exonic	nonsynonymous SNV	CLCA4	NM_012128:c.A935G;p.D312G	0 D13
chr1	1.11E+08	1.11E+08	A	G	exonic	nonsynonymous SNV	KCNA3	NM_002232:c.T1193C;p.L398P	0 D13
chr1	1.57E+08	1.57E+08	G	A	exonic	nonsynonymous SNV	CADM3	NM_001127173:c.G770A;p.R257H	0.11 D13
chr2	32728766	32728766	C	T	exonic	nonsynonymous SNV	TTC27	NM_001193509:c.C452T;p.P151L	0 D13
chr2	54734436	54734436	G	T	exonic	nonsynonymous SNV	SPTBN1	NM_178313:c.G5725T;p.D1909Y	0 D13
chr2	1.9E+08	1.9E+08	C	G	exonic	nonsynonymous SNV	COL3A1	NM_000090:c.C1471G;p.R491G	0 D13
chr3	10345805	10345805	C	T	exonic	nonsynonymous SNV	ATP2B2	NM_001683:c.G3290A;p.R1097H	0 D13
chr3	49697068	49697068	C	T	exonic	nonsynonymous SNV	MST1	NM_020998:c.G1795A;p.A599T	0.31 D13
chr3	1.02E+08	1.02E+08	A	G	exonic	nonsynonymous SNV	TOMM70A	NM_014820:c.T757C;p.S253P	0 D13
chr3	1.14E+08	1.14E+08	C	A	exonic;splicing	synonymous SNV	BOC;BOC	NM_033254:c.C2022A;p.G674G	D13
chr3	1.73E+08	1.73E+08	C	G	exonic	nonsynonymous SNV	FNDC3B	NM_001135095:c.C133G;p.P45A	0 D13
chr4	69718382	69718382	G	A	exonic	stopgain SNV	UGT2B10	NM_001075:c.G765A;p.W255X	D13
chr4	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SNV	FBXW7	NM_001013415:c.C1391T;p.S464L	0.06 D13
chr4	1.53E+08	1.53E+08	G	A	exonic	stopgain SNV	FBXW7	NM_001013415:c.C478T;p.R160X	0.17 D13
chr4	1.64E+08	1.64E+08	G	T	exonic	synonymous SNV	NPY1R	NM_000909:c.C1152A;p.I384I	D13
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C1636T;p.R546X	0.01 D13
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	HARS	NM_002109:c.G1131A;p.V377V	D13
chr7	1.03E+08	1.03E+08	T	A	exonic	synonymous SNV	RELN	NM_005045:c.A2559T;p.V853V	D13
chr7	1.42E+08	1.42E+08	G	T	exonic;splicing	nonsynonymous SNV	PRSS1	NM_002769:c.G593T;p.G198V	0.03 D13
chr8	14456712	14456712	C	T	exonic	nonsynonymous SNV	SGCZ	NM_139167:c.G134A;p.R45Q	0 D13
chr8	74011488	74011488	C	A	exonic	nonsynonymous SNV	KCNB2	NM_004770:c.C1344A;p.S448R	0 D13
chr8	1.09E+08	1.09E+08	C	T	exonic	nonsynonymous SNV	RSP02	NM_178565:c.G482A;p.R161H	0.01 D13
chr8	1.18E+08	1.18E+08	A	C	exonic	synonymous SNV	SLC30A8	NM_173851:c.A705C;p.A235A	D13
chr9	1.38E+08	1.38E+08	C	T	exonic	synonymous SNV	KCNT1	NM_020822:c.C3066T;p.Y1022Y	D13
chr10	25353665	25353665	G	T	exonic	nonsynonymous SNV	THNSL1	NM_024838:c.G1507T;p.D503Y	0 D13
chr11	21551495	21551495	G	A	exonic	synonymous SNV	NELL1	NM_201551:c.G2205A;p.T735T	D13
chr11	36571539	36571539	C	G	exonic	nonsynonymous SNV	RAG2	NM_000536:c.G756C;p.L252F	0 D13
chr11	40094093	40094093	C	A	exonic	nonsynonymous SNV	LRRC4C	NM_020929:c.G326T;p.R109M	0.05 D13
chr11	65592729	65592729	A	C	exonic	nonsynonymous SNV	SF3B2	NM_006842:c.A2625C;p.K875N	0.01 D13
chr11	1.05E+08	1.05E+08	C	T	exonic	synonymous SNV	GRIA4	NM_001112812:c.C333T;p.S111S	D13
chr12	56449434	56449434	G	C	exonic	nonsynonymous SNV	METTL1	NM_023033:c.C409G;p.R137G	0 D13
chr12	74023893	74023893	C	A	exonic	nonsynonymous SNV	GLIPR1L1	NM_152779:c.C328A;p.P110T	0.33 D13
chr12	1E+08	1E+08	G	A	exonic	nonsynonymous SNV	UTP20	NM_014503:c.G2165A;p.R722H	0.02 D13
chr13	47549388	47549388	G	C	exonic	nonsynonymous SNV	MED4	NM_014166:c.C701G;p.P234R	0.04 D13

chr16	2175340	2175340	C	T	exonic	synonymous SNV	CASKIN1	NM_020764:c.G1119A:p.E373E	D13
chr16	54077092	54077092	A	G	exonic	nonsynonymous SNV	MMP2	NM_001127891:c.A584G:p.N195S	1 D13
chr17	7519005	7519005	G	A	exonic	nonsynonymous SNV	TP53	NM_001126115:c.C173T:p.P58L	0 D13
chr17	42724600	42724600	G	A	exonic	nonsynonymous SNV	ITGB3	NM_000212:c.G1357A:p.V453I	rs5921 0.46 D13
chr17	57400292	57400292	C	G	exonic	nonsynonymous SNV	MED13	NM_005121:c.G4077C:p.M1359I	0.05 D13
chr19	6446310	6446310	G	A	exonic	synonymous SNV	TUBB4	NM_006087:c.C1200T:p.G400G	D13
chr19	8922146	8922146	G	A	exonic	nonsynonymous SNV	MUC16	NM_024690:c.C26300T:p.T8767M	D13
chr20	31337615	31337615	C	G	exonic	synonymous SNV	C20orf114	NM_033197:c.C75G:p.P25P	D13
chr21	29831575	29831575	A	G	exonic	synonymous SNV	GRIK1	NM_175611:c.T2565C:p.C855C	D13
chrX	1.36E+08	1.36E+08	G	A	exonic	synonymous SNV	ARHGEF6	NM_004840:c.C2157T:p.Y719Y	D13
chr1	33931187	33931187	A	C	exonic	nonsynonymous SNV	CSMD2	NM_052896:c.T3862G:p.Y1288D	0 D10
chr1	37118924	37118924	C	T	exonic	nonsynonymous SNV	GRIK3	NM_000831:c.G448A:p.V150M	0.01 D10
chr1	42849242	42849242	A	T	exonic	stopgain SNV	CCDC30	NM_001080850:c.A1390T:p.K464X	0.06 D10
chr1	52078711	52078711	A	C	exonic	synonymous SNV	NRD1	NM_001101662:c.T405G:p.G135G	D10
chr1	1.49E+08	1.49E+08	C	T	exonic	nonsynonymous SNV	VPS72	NM_005997:c.G905A:p.R302Q	0.38 D10
chr1	1.57E+08	1.57E+08	G	A	exonic	nonsynonymous SNV	OR6N1	NM_001005185:c.C877T:p.R293C	0 D10
chr1	1.72E+08	1.72E+08	G	T	exonic	nonsynonymous SNV	DARS2	NM_018122:c.G142T:p.V48F	0.02 D10
chr1	1.95E+08	1.95E+08	C	G	exonic	nonsynonymous SNV	CFH	NM_000186:c.C898G:p.P300A	0.3 D10
chr1	2.24E+08	2.24E+08	C	T	exonic	nonsynonymous SNV	TMEM63A	NM_014698:c.G2264A:p.R755Q	0.25 D10
chr2	10043704	10043704	T	G	exonic;splicing	nonsynonymous SNV	GRHL1	NM_198182:c.T1112G:p.V371G	0 D10
chr2	99133458	99133458	G	T	exonic	nonsynonymous SNV	C2orf15	NM_144706:c.G107T:p.G36V	0 D10
chr2	1.05E+08	1.05E+08	T	C	exonic	nonsynonymous SNV	FHL2	NM_001450:c.A188G:p.E63G	0 D10
chr2	1.11E+08	1.11E+08	C	T	exonic	nonsynonymous SNV	ACOXL	NM_001142807:c.C764T:p.T255M	rs1554005 0.14 D10
chr2	1.87E+08	1.87E+08	G	A	exonic;splicing	nonsynonymous SNV	FAM171B	NM_177454:c.G565A:p.D189N	0.21 D10
chr3	48395932	48395932	G	T	exonic	synonymous SNV	FBXW12	NM_001159927:c.G444T:p.L148L	D10
chr3	1.56E+08	1.56E+08	A	C	exonic	synonymous SNV	DHX36	NM_001114397:c.T915G:p.G305G	D10
chr4	25028389	25028389	A	G	exonic	nonsynonymous SNV	ANAPC4	NM_013367:c.A2129G:p.H710R	0.85 D10
chr4	41379216	41379216	G	A	exonic	nonsynonymous SNV	LIMCH1	NM_001112720:c.G2174A:p.R725Q	0.12 D10
chr4	74226383	74226383	T	G	exonic	synonymous SNV	ANKRD17	NM_032217:c.A2271C:p.P757P	D10
chr4	87247424	87247424	G	C	exonic	synonymous SNV	MAPK10	NM_002753:c.C342G:p.L114L	D10
chr4	89746092	89746092	C	G	exonic	nonsynonymous SNV	HERC3	NM_014606:c.C95G:p.S32C	0.15 D10
chr4	1.24E+08	1.24E+08	C	T	exonic	nonsynonymous SNV	ADAD1	NM_001159285:c.C86T:p.A29V	0.05 D10
chr4	1.27E+08	1.27E+08	C	T	exonic	nonsynonymous SNV	FAT4	NM_024582:c.C7022T:p.S2341F	0.02 D10
chr5	52180986	52180986	T	A	exonic	nonsynonymous SNV	ITGA1	NM_181501:c.T92A:p.V31D	0 D10
chr5	1.11E+08	1.11E+08	A	G	exonic	nonsynonymous SNV	CAMK4	NM_001744:c.A340G:p.I114V	0.16 D10
chr5	1.12E+08	1.12E+08	C	A	exonic	stopgain SNV	APC	NM_001127511:c.C455A:p.S152X	0.16 D10
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C2602T:p.Q868X	0.01 D10
chr6	71355104	71355104	C	T	exonic	stopgain SNV	C6orf57	NM_145267:c.C283T:p.R95X	0 D10
chr7	2270479	2270479	G	A	exonic	synonymous SNV	SNX8	NM_013321:c.C762T:p.L254L	D10
chr7	66051090	66051090	C	A	exonic	synonymous SNV	C7orf42	NM_017994:c.C570A:p.A190A	D10
chr7	91921887	91921887	A	C	exonic	nonsynonymous SNV	GATAD1	NM_021167:c.A571C:p.T191P	0.06 D10
chr7	1.13E+08	1.13E+08	C	G	exonic	nonsynonymous SNV	PPP1R3A	NM_002711:c.G2081C:p.S694T	0.02 D10
chr7	1.43E+08	1.43E+08	T	G	exonic	synonymous SNV	TAS2R60	NM_177437:c.T225G:p.G75G	D10
chr7	1.47E+08	1.47E+08	C	T	exonic	synonymous SNV	CNTNAP2	NM_014141:c.C1998T:p.S666S	D10
chr9	71661356	71661356	G	A	exonic	nonsynonymous SNV	C9orf135	NM_001010940:c.G327A:p.M109I	0.72 D10
chr10	419992	419992	C	G	exonic	synonymous SNV	DIP2C	NM_014974:c.G1851C:p.L617L	D10
chr10	13679543	13679543	T	G	splicing		PRPF18		D10
chr10	22730184	22730184	T	C	exonic	nonsynonymous SNV	SPAG6	NM_012443:c.T1286C:p.L429P	0 D10
chr10	60214820	60214820	A	T	exonic	nonsynonymous SNV	BICC1	NM_001080512:c.A361T:p.M121L	0.26 D10
chr10	1.02E+08	1.02E+08	T	G	exonic	nonsynonymous SNV	ERLIN1	NM_006459:c.A522C:p.K174N	0.02 D10
chr10	1.14E+08	1.14E+08	A	C	exonic	nonsynonymous SNV	GPAM	NM_020918:c.T1573G:p.F525V	0 D10
chr10	1.26E+08	1.26E+08	C	T	exonic	nonsynonymous SNV	CHST15	NM_015892:c.G1556A:p.R519H	0.04 D10
chr11	34074670	34074670	C	T	exonic	stopgain SNV	CAPRIN1	NM_005898:c.C1774T:p.Q592X	0.2 D10

chr11	34909528	34909528	T	G	exonic;splicing	synonymous SNV	PDHX;PDHX	NM_001135024:c.T117G:p.G39G		D10
chr11	35179877	35179877	G	C	exonic	nonsynonymous SNV	CD44	NM_001001389:c.G991C:p.E331Q	0.01	D10
chr11	55492384	55492384	G	A	exonic	synonymous SNV	OR10AG1	NM_001005491:c.C132T:p.P44P	rs78226543	D10
chr11	76724962	76724962	G	T	exonic	nonsynonymous SNV	PAK1	NM_001128620:c.C1230A:p.F410L		0 D10
chr11	1.06E+08	1.06E+08	C	T	exonic	nonsynonymous SNV	GUCY1A2	NM_000855:c.G1307A:p.R436Q		0.01 D10
chr12	25289551	25289551	C	T	exonic	nonsynonymous SNV	KRAS	NM_004985:c.G35A:p.G12D		0 D10
chr12	42231228	42231228	G	A	exonic	synonymous SNV	ADAMTS20	NM_025003:c.C204T:p.S68S		D10
chr12	48013205	48013205	C	T	exonic	nonsynonymous SNV	C1QL4	NM_001008223:c.G616A:p.V206M		0.1 D10
chr12	54502463	54502463	G	T	exonic	stopgain SNV	DNAJC14	NM_032364:c.C1859A:p.S620X		0 D10
chr12	74023926	74023926	A	C	exonic	nonsynonymous SNV	GLIPR1L1	NM_152779:c.A361C:p.T121P		0.24 D10
chr12	1.08E+08	1.08E+08	G	A	exonic	synonymous SNV	FOXN4	NM_213596:c.C1416T:p.S472S		D10
chr12	1.18E+08	1.18E+08	G	A	exonic	nonsynonymous SNV	CCDC60	NM_178499:c.G1354A:p.D452N		0.49 D10
chr13	75276565	75276565	A	G	exonic	synonymous SNV	LMO7	NM_015842:c.A102G:p.R34R		D10
chr14	21033287	21033287	A	C	exonic	synonymous SNV	TOX4	NM_014828:c.A1701C:p.S567S		D10
chr14	72612826	72612826	A	C	exonic	synonymous SNV	RBM25	NM_021239:c.A153C:p.P51P		D10
chr14	76343541	76343541	G	A	exonic	synonymous SNV	ANGEL1	NM_015305:c.C934T:p.L312L		D10
chr14	79003500	79003500	T	G	splicing		NRXN3			D10
chr15	23518015	23518015	C	T	exonic	synonymous SNV	ATP10A	NM_024490:c.G1245A:p.T415T		D10
chr15	39892546	39892546	C	T	exonic	synonymous SNV	MAPKBP1	NM_001128608:c.C774T:p.C258C		D10
chr15	49560405	49560405	C	T	exonic	nonsynonymous SNV	DMXL2	NM_001174117:c.G4282A:p.V1428I		0.14 D10
chr15	58533145	58533145	T	G	exonic	synonymous SNV	NARG2	NM_001018089:c.A663C:p.P221P		D10
chr15	65269924	65269924	C	G	exonic	nonsynonymous SNV	SMAD3	NM_001145104:c.C689G:p.S230C		0 D10
chr15	79398852	79398852	T	G	exonic;splicing	nonsynonymous SNV	STARD5	NM_181900:c.A283C:p.T95P		0.06 D10
chr16	3222862	3222862	A	G	exonic	nonsynonymous SNV	ZNF200	NM_001145446:c.T311C:p.V104A		0 D10
chr16	56576865	56576865	C	T	exonic	synonymous SNV	TEPP	NM_199046:c.C747T:p.P249P		D10
chr17	7604851	7604851	C	T	exonic	synonymous SNV	DNAH2	NM_020877:c.C2854T:p.L952L		D10
chr17	26583935	26583935	C	T	exonic	nonsynonymous SNV	NF1	NM_000267:c.C3406T:p.R1136W		0.02 D10
chr17	38306639	38306639	G	A	exonic	nonsynonymous SNV	G6PC	NM_000151:c.G220A:p.V74I		0.17 D10
chr17	38434046	38434046	C	T	exonic	synonymous SNV	RND2	NM_005440:c.C507T:p.S169S		D10
chr17	38500080	38500080	G	A	exonic	nonsynonymous SNV	BRCA1	NM_007297:c.C853T:p.R285W	rs80357176	0 D10
chr17	70656355	70656355	C	T	exonic	synonymous SNV	HN1	NM_001002032:c.G63A:p.L21L		D10
chr18	30904213	30904213	G	C	exonic	nonsynonymous SNV	MAPRE2	NM_014268:c.G179C:p.R60T		0 D10
chr19	10121605	10121605	C	G	exonic	nonsynonymous SNV	DNMT1	NM_001379:c.G2257C:p.D753H		0.32 D10
chr19	18640309	18640309	G	A	exonic	nonsynonymous SNV	KLHL26	NM_018316:c.G1102A:p.G368R		0 D10
chr19	37664904	37664904	A	C	exonic	nonsynonymous SNV	DPY19L3	NM_001172774:c.A2069C:p.N690T		0.07 D10
chr19	56941693	56941693	G	A	exonic	nonsynonymous SNV	FPR1	NM_002029:c.C367T:p.R123C		0.07 D10
chr19	61099200	61099200	C	A	exonic	stopgain SNV	NLRP13	NM_176810:c.G3055T:p.E1019X		0.75 D10
chr19	62019810	62019810	G	A	exonic	synonymous SNV	PEG3	NM_001146186:c.C1812T:p.R604R		D10
chr20	3050564	3050564	C	G	exonic	nonsynonymous SNV	UBOX5	NM_014948:c.G721C:p.E241Q		0.18 D10
chr20	32977666	32977666	T	G	exonic	synonymous SNV	ACSS2	NM_018677:c.T1824G:p.G608G		D10
chr20	39467143	39467143	G	A	exonic	nonsynonymous SNV	CHD6	NM_032221:c.C7652T:p.P2551L		0.1 D10
chr21	29313453	29313453	G	A	exonic	nonsynonymous SNV	RWDD2B	NM_016940:c.C17T:p.S6F		0 D10
chr21	36542638	36542638	C	T	exonic	nonsynonymous SNV	DOPEY2	NM_005128:c.C4900T:p.L1634F		0.03 D10
chr22	39903359	39903359	A	T	exonic	stopgain SNV	EP300	NM_001429:c.A5698T:p.K1900X		0.44 D10
chr22	48684099	48684099	T	G	exonic	nonsynonymous SNV	ALG12	NM_024105:c.A1052C:p.H351P		0.05 D10
chrX	74410879	74410879	C	G	exonic	stopgain SNV	UPRT	NM_145052:c.C65G:p.S22X		0.01 D10
chr1	30985327	30985327	C	T	exonic	nonsynonymous SNV	LAPTM5	NM_006762:c.G303A:p.M101I		0.04 D16
chr1	53704902	53704902	G	A	exonic	synonymous SNV	DMRTB1	NM_033067:c.G1008A:p.S336S		D16
chr1	54948395	54948395	C	T	exonic	nonsynonymous SNV	HEATR8	NM_001039464:c.C3919T:p.R1307C		0 D16
chr1	1.14E+08	1.14E+08	G	A	exonic	nonsynonymous SNV	DCLRE1B	NM_022836:c.G731A:p.R244H		0.08 D16
chr1	1.54E+08	1.54E+08	C	T	exonic	synonymous SNV	PKLR	NM_000298:c.G90A:p.G30G		D16
chr1	1.56E+08	1.56E+08	C	T	exonic	synonymous SNV	CD1A	NM_001763:c.C789T:p.R263R		D16
chr1	1.57E+08	1.57E+08	C	G	exonic	nonsynonymous SNV	AIM2	NM_004833:c.G541C:p.V181L		0 D16

chr1	1.58E+08	1.58E+08	C	G	exonic	nonsynonymous SN\ CASQ1	NM_001231:c.C726G:p.I242M	D16
chr1	1.84E+08	1.84E+08	G	C	exonic	nonsynonymous SN\ HMCN1	NM_031935:c.G7396C:p.E2466Q	0.19 D16
chr1	2.13E+08	2.13E+08	C	T	exonic	nonsynonymous SN\ SMYD2	NM_020197:c.C895T:p.R299C	0 D16
chr1	2.21E+08	2.21E+08	G	A	exonic	nonsynonymous SN\ DISP1	NM_032890:c.G1774A:p.E592K	0.17 D16
chr1	2.45E+08	2.45E+08	G	C	exonic	nonsynonymous SN\ ZNF670	NM_001204220:c.C527G:p.P176R	0.01 D16
chr2	6909206	6909206	T	C	exonic	nonsynonymous SN\ CMPK2	NM_207315:c.A1052G:p.H351R	D16
chr2	21087026	21087026	A	G	exonic	synonymous SNV APOB	NM_000384:c.T6219C:p.F2073F	D16
chr3	8919081	8919081	A	T	exonic	nonsynonymous SN\ RAD18	NM_020165:c.T1151A:p.L384Q	0.07 D16
chr3	10121210	10121210	G	A	exonic	synonymous SNV C3orf24	NM_001164839:c.C249T:p.N83N	D16
chr3	41241117	41241117	C	T	exonic	nonsynonymous SN\ CTNNB1	NM_001098209:c.C110T:p.S37F	0 D16
chr3	58494302	58494302	G	A	exonic	synonymous SNV ACOX2	NM_003500:c.C493T:p.L165L	D16
chr3	87110568	87110568	A	C	exonic	nonsynonymous SN\ VGLL3	NM_016206:c.T201G:p.D67E	0.46 D16
chr3	1.27E+08	1.27E+08	G	A	exonic	synonymous SNV OSBPL11	NM_022776:c.C363T:p.H121H	D16
chr3	1.27E+08	1.27E+08	G	A	exonic	nonsynonymous SN\ SLC41A3	NM_001008486:c.C1202T:p.A401V	0.08 D16
chr3	1.42E+08	1.42E+08	G	T	exonic	nonsynonymous SN\ TRIM42	NM_152616:c.G1438T:p.V480F	0.07 D16
chr3	1.66E+08	1.66E+08	G	T	exonic	nonsynonymous SN\ SI	NM_001041:c.C3825A:p.F1275L	0.11 D16
chr3	1.69E+08	1.69E+08	G	C	exonic	nonsynonymous SN\ WDR49	NM_178824:c.C279G:p.H93Q	0.34 D16
chr3	1.85E+08	1.85E+08	C	T	exonic	synonymous SNV DVL3	NM_004423:c.C1125T:p.Y375Y	D16
chr4	41444183	41444183	G	A	exonic	synonymous SNV PHOX2B	NM_003924:c.C369T:p.P123P	D16
chr4	91093372	91093372	C	A	exonic	nonsynonymous SN\ MMRN1	NM_007351:c.C3467A:p.A1156D	0.01 D16
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV DCHS2	NM_017639:c.C7221T:p.A2407A	D16
chr4	1.87E+08	1.87E+08	G	T	exonic	synonymous SNV PDLIM3	NM_001114107:c.C123A:p.A41A	D16
chr5	37209713	37209713	T	G	exonic	synonymous SNV C5orf42	NM_023073:c.A6072C:p.T2024T	D16
chr5	45303035	45303035	C	G	exonic	nonsynonymous SN\ HCN1	NM_021072:c.G1696C:p.V566L	0.12 D16
chr5	1.4E+08	1.4E+08	C	G	exonic	nonsynonymous SN\ PCDHB3	NM_018937:c.C213G:p.N71K	0.34 D16
chr5	1.41E+08	1.41E+08	C	T	exonic	synonymous SNV PCDHGA6	NM_018919:c.C1545T:p.Y515Y	D16
chr5	1.57E+08	1.57E+08	G	A	exonic	nonsynonymous SN\ SOX30	NM_178424:c.C2129T:p.P710L	0 D16
chr5	1.76E+08	1.76E+08	G	C	exonic	synonymous SNV UIMC1	NM_001199298:c.C387G:p.T129T	0 D16
chr6	14085935	14085935	C	A	exonic	stopgain SNV RNF182	NM_001165033:c.C606A:p.Y202X	0 D16
chr6	37294220	37294220	T	C	exonic	nonsynonymous SN\ TMEM217	NM_001162900:c.A565G:p.S189G	0.05 D16
chr6	90775130	90775130	C	T	exonic	nonsynonymous SN\ BACH2	NM_0011170794:c.G155A:p.R52Q	0 D16
chr6	1.12E+08	1.12E+08	C	G	exonic	nonsynonymous SN\ REV3L	NM_002912:c.G2804C:p.S935T	0 D16
chr6	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\ SYNE1	NM_033071:c.C8564T:p.A2855V	0.04 D16
chr6	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\ THBS2	NM_003247:c.C175T:p.R59C	0.02 D16
chr7	77600225	77600225	G	T	exonic	synonymous SNV MAGI2	NM_012301:c.C3120A:p.A1040A	D16
chr7	87325932	87325932	A	T	exonic	nonsynonymous SN\ SLC25A40	NM_018843:c.T47A:p.L16H	0 D16
chr8	8234537	8234537	G	A	exonic	synonymous SNV SGK223	NM_001080826:c.C2181T:p.S727S	D16
chr8	35744076	35744076	C	T	exonic	stopgain SNV UNC5D	NM_080872:c.C2428T:p.Q810X	0 D16
chr8	70650803	70650803	G	A	exonic	nonsynonymous SN\ SULF1	NM_001128204:c.G217A:p.G73R	0.17 D16
chr8	99510194	99510194	T	A	exonic	nonsynonymous SN\ KCNS2	NM_020697:c.T811A:p.F271I	0.07 D16
chr8	1.11E+08	1.11E+08	C	T	exonic	nonsynonymous SN\ SYBU	NM_001099746:c.G43A:p.E15K	D16
chr9	16425896	16425896	G	A	exonic	nonsynonymous SN\ BNC2	NM_017637:c.C2296T:p.P766S	0 D16
chr9	95447874	95447874	G	A	exonic	nonsynonymous SN\ PHF2	NM_005392:c.G442A:p.D148N	0.13 D16
chr9	1.34E+08	1.34E+08	C	A	exonic	nonsynonymous SN\ MED27	NM_004269:c.G736T:p.A246S	0 D16
chr10	5824245	5824245	G	A	exonic	nonsynonymous SN\ C10orf18	NM_017782:c.G2507A:p.R836H	0.16 D16
chr10	30655437	30655437	A	G	exonic	nonsynonymous SN\ MTPAP	NM_018109:c.T914C:p.I305T	0 D16
chr10	60699744	60699744	A	G	exonic	nonsynonymous SN\ FAM13C	NM_001001971:c.T724C:p.S242P	0.09 D16
chr10	88662005	88662005	C	T	exonic	nonsynonymous SN\ BMPR1A	NM_004329:c.C559T:p.R187C	0.06 D16
chr10	1.08E+08	1.08E+08	C	T	splicing	SORCS1		D16
chr11	2390055	2390055	A	G	exonic	nonsynonymous SN\ TRPM5	NM_014555:c.T2360C:p.F787S	0.01 D16
chr11	49930590	49930590	G	C	exonic	nonsynonymous SN\ OR4C13	NM_001001955:c.G40C:p.G14R	0 D16
chr11	55363000	55363000	A	C	exonic	nonsynonymous SN\ OR5D16	NM_001005496:c.A197C:p.N66T	0.13 D16
chr11	55518607	55518607	T	C	exonic	nonsynonymous SN\ OR5F1	NM_003697:c.A71G:p.Q24R	0.08 D16

chr11	59988349	59988349	G	A	exonic	nonsynonymous SN\	MS4A1	NM_021950:c.G292A:p.G98R	0	D16	
chr11	66955434	66955434	C	A	exonic	nonsynonymous SN\	RPS6KB2	NM_003952:c.C329A:p.A110D	0.02	D16	
chr11	85086670	85086670	C	T	exonic;splicing	nonsynonymous SN\	SYTL2	NM_032379:c.G779A:p.C260Y	0	D16	
chr11	1.24E+08	1.24E+08	A	T	exonic	nonsynonymous SN\	OR8A1	NM_001005194:c.A419T:p.Y140F	0.02	D16	
chr12	6822655	6822655	C	A	exonic	nonsynonymous SN\	GNB3	NM_002075:c.C260A:p.T87N	0.06	D16	
chr12	25289548	25289548	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G38A:p.G13D	rs112445441	0	D16
chr12	26472196	26472196	G	A	exonic	nonsynonymous SN\	ITPR2	NM_002223:c.C6862T;p.R2288W	rs61751236		D16
chr12	47374464	47374464	G	C	exonic	nonsynonymous SN\	CCNT1	NM_001240:c.C800G:p.T267R		0.01	D16
chr12	47457753	47457753	C	T	exonic	nonsynonymous SN\	ADCY6	NM_015270:c.G1048A:p.V350I		0	D16
chr12	48010571	48010571	G	A	exonic	nonsynonymous SN\	TROAP	NM_005480:c.G1676A:p.C559Y		0.02	D16
chr12	48010580	48010580	G	T	exonic	nonsynonymous SN\	TROAP	NM_005480:c.G1685T:p.S562I		0.2	D16
chr12	68290841	68290841	G	A	exonic	synonymous SNV	LRRRC10	NM_201550:c.C45T;p.D15D			D16
chr12	1.12E+08	1.12E+08	G	A	exonic	nonsynonymous SN\	SDSL	NM_138432:c.G757A:p.E253K		0.29	D16
chr14	44749346	44749346	C	G	exonic	nonsynonymous SN\	MIS18BP1	NM_018353:c.G3139C:p.G1047R		0.05	D16
chr15	22474447	22474447	G	A	exonic	synonymous SNV	C15orf2	NM_018958:c.G2340A:p.P780P			D16
chr15	64394510	64394510	T	A	exonic	synonymous SNV	DIS3L	NM_001143688:c.T897A:p.L299L			D16
chr15	81037189	81037189	G	C	exonic	synonymous SNV	CPEB1	NM_001079535:c.C114G:p.T38T			D16
chr16	2069400	2069400	C	T	exonic	nonsynonymous SN\	TSC2	NM_001077183:c.C3122T;p.S1041L		0.08	D16
chr17	11637562	11637562	A	G	exonic	synonymous SNV	DNAH9	NM_001372:c.A8079G:p.S2693S			D16
chr17	37031453	37031453	C	T	exonic	nonsynonymous SN\	KRT17	NM_000422:c.G752A:p.R251H		0	D16
chr17	40346670	40346670	A	G	exonic	synonymous SNV	GFAP	NM_001131019:c.T570C:p.I190I			D16
chr17	40688328	40688328	T	A	exonic	nonsynonymous SN\	C17orf46	NM_152343:c.A1004T:p.K335I		0.04	D16
chr17	46096073	46096073	C	T	exonic	nonsynonymous SN\	ABCC3	NM_001144070:c.C1031T;p.A344V		0.27	D16
chr18	7039206	7039206	G	A	exonic	synonymous SNV	LAMA1	NM_005559:c.C639T:p.P213P			D16
chr18	8815400	8815400	G	A	exonic	nonsynonymous SN\	KIAA0802	NM_015210:c.G3892A:p.G1298S		0.25	D16
chr18	21866494	21866494	C	T	exonic;splicing	nonsynonymous SN\	SS18;SS18	NM_005637:c.G1004A:p.G335D		0.01	D16
chr18	22293794	22293794	G	A	exonic	stopgain SNV	KCTD1	NM_001136205:c.C403T:p.R135X		0.31	D16
chr18	28102596	28102596	G	A	exonic	nonsynonymous SN\	FAM59A	NM_022751:c.C1864T:p.R622W		0.01	D16
chr19	10769188	10769188	C	G	exonic	synonymous SNV	DNM2	NM_001005361:c.C1329G:p.A443A			D16
chr19	12048319	12048319	A	G	exonic	nonsynonymous SN\	ZNF844	NM_001136501:c.A1384G:p.T462A			D16
chr19	19200012	19200012	T	G	exonic	synonymous SNV	NCAN	NM_004386:c.T2583G;p.P861P			D16
chr19	21399366	21399366	A	G	exonic	nonsynonymous SN\	ZNF493	NM_175910:c.A1681G:p.K561E		1	D16
chr19	60927287	60927287	A	C	exonic	stopgain SNV	NLRP9	NM_176820:c.T2030G;p.L677X		0.02	D16
chr19	62881219	62881219	C	A	exonic	synonymous SNV	ZSCAN4	NM_152677:c.C522A:p.P174P			D16
chr20	47423872	47423872	G	A	exonic	synonymous SNV	KCNB1	NM_004975:c.C1632T:p.I544I			D16
chr20	57980432	57980432	T	G	exonic	stopgain SNV	CDH26	NM_177980:c.T252G;p.Y84X		0.26	D16
chr22	21173398	21173398	G	A	exonic	nonsynonymous SN\	ZNF280B	NM_080764:c.C326T;p.S109L		0.22	D16
chr22	22782697	22782697	G	A	exonic	nonsynonymous SN\	CABIN1	NM_001201429:c.G986A:p.R329Q		0.02	D16
chrX	14772553	14772553	A	C	exonic	nonsynonymous SN\	FANCB	NM_152633:c.T2158G;p.Y720D		0	D16
chrX	19320455	19320455	T	G	exonic	nonsynonymous SN\	MAP3K15	NM_001001671:c.A2252C;p.K751T		0	D16
chrX	34872658	34872658	C	T	exonic	synonymous SNV	FAM47B	NM_152631:c.C1789T;p.L597L			D16
chr1	11097007	11097007	C	T	exonic	nonsynonymous SN\	MTOR	NM_004958:c.G7255A:p.E2419K		0	D6
chr1	70250192	70250192	A	G	exonic	nonsynonymous SN\	LRRRC7	NM_020794:c.A1015G:p.R339G		0.2	D6
chr1	1.44E+08	1.44E+08	G	A	exonic	nonsynonymous SN\	PDE4DIP	NM_001198832:c.C62T;p.T21M	rs7547485	0	D6
chr1	1.48E+08	1.48E+08	C	T	exonic	nonsynonymous SN\	MTMR11	NM_181873:c.G401A:p.R134Q		0.03	D6
chr1	1.58E+08	1.58E+08	C	T	exonic	nonsynonymous SN\	ATP1A4	NM_144699:c.C1427T:p.A476V		0.28	D6
chr1	1.59E+08	1.59E+08	T	G	exonic	nonsynonymous SN\	ITLN1	NM_017625:c.A588C;p.E196D		0.62	D6
chr1	1.66E+08	1.66E+08	T	G	exonic	nonsynonymous SN\	GPR161	NM_153832:c.A631C:p.I211L		0	D6
chr1	1.75E+08	1.75E+08	T	C	exonic	nonsynonymous SN\	ASTN1	NM_004319:c.A772G;p.M258V		0	D6
chr1	2.1E+08	2.1E+08	T	G	exonic	nonsynonymous SN\	DTL	NM_016448:c.T451G;p.F151V		0.29	D6
chr2	21081676	21081676	C	T	exonic	nonsynonymous SN\	APOB	NM_000384:c.G11569A:p.V3857M		0.11	D6
chr2	48760046	48760046	C	A	exonic	nonsynonymous SN\	GTF2A1L	NM_001193487:c.C1296A:p.D432E		0.14	D6
chr2	1.63E+08	1.63E+08	C	T	exonic	synonymous SNV	IFIH1	NM_022168:c.G2199A:p.A733A			D6

chr3	1.17E+08	1.17E+08	T	C	exonic	nonsynonymous SN\	LSAMP	NM_002338:c.A406G:p.N136D	0.36	D6
chr3	1.31E+08	1.31E+08	T	C	exonic	nonsynonymous SN\	IFT122	NM_052990:c.T1783C:p.F595L rs73204230	0.01	D6
chr4	1.53E+08	1.53E+08	C	A	exonic	nonsynonymous SN\	FBXW7	NM_001013415:c.G1646T:p.G549V	0.01	D6
chr4	1.53E+08	1.53E+08	G	A	exonic	stopgain SNV	FBXW7	NM_001013415:c.C1618T:p.R540X	0.12	D6
chr4	1.55E+08	1.55E+08	G	T	exonic	nonsynonymous SN\	DCHS2	NM_017639:c.C6383A:p.T2128K	0.03	D6
chr4	1.57E+08	1.57E+08	C	T	exonic	stopgain SNV	GUCY1A3	NM_001130684:c.C1840T:p.R614X	0.25	D6
chr5	13912561	13912561	C	T	exonic;splicing	synonymous SNV	DNAH5	NM_001369:c.G4950A:p.K1650K		D6
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C2572T:p.R858X	0.03	D6
chr5	1.22E+08	1.22E+08	G	A	exonic;splicing	nonsynonymous SN\	SNX24	NM_014035:c.G442A:p.D148N	0.39	D6
chr5	1.53E+08	1.53E+08	T	A	exonic	synonymous SNV	GRIA1	NM_000827:c.T1374A:p.I458I		D6
chr6	52957271	52957271	C	G	exonic	nonsynonymous SN\	GSTA4	NM_001512:c.G364C:p.V122L	0.11	D6
chr6	70005744	70005744	C	T	exonic	nonsynonymous SN\	BAI3	NM_001704:c.C2719T:p.R907C	0	D6
chr6	1.45E+08	1.45E+08	T	G	splicing		UTRN			D6
chr6	1.51E+08	1.51E+08	C	T	exonic	stopgain SNV	PLEKHG1	NM_001029884:c.C1636T:p.R546X	0	D6
chr6	1.66E+08	1.66E+08	A	G	exonic	nonsynonymous SN\	PDE10A	NM_001130690:c.T2185C:p.F729L	0	D6
chr7	31871143	31871143	A	T	exonic	nonsynonymous SN\	PDE1C	NM_001191056:c.T688A:p.L230I	0.33	D6
chr7	44981715	44981715	T	G	exonic	nonsynonymous SN\	MYO1G	NM_033054:c.A457C:p.T153P	0	D6
chr7	98353062	98353062	C	T	exonic	nonsynonymous SN\	TRRAP	NM_003496:c.C2446T:p.R816W	0	D6
chr7	1.5E+08	1.5E+08	T	G	exonic;splicing	nonsynonymous SN\	NOS3	NM_001160109:c.T584G:p.V195G	0	D6
chr8	1.13E+08	1.13E+08	C	T	exonic	synonymous SNV	CSMD3	NM_052900:c.G6642A:p.G2214G		D6
chr9	1.07E+08	1.07E+08	G	A	exonic	synonymous SNV	ABCA1	NM_005502:c.C252T:p.Y84Y		D6
chr9	1.21E+08	1.21E+08	G	T	exonic	nonsynonymous SN\	DBC1	NM_014618:c.C334A:p.P112T	0.08	D6
chr10	87472864	87472864	C	T	exonic	nonsynonymous SN\	GRID1	NM_017551:c.G1873A:p.V625M	0.1	D6
chr10	1.18E+08	1.18E+08	C	T	exonic	nonsynonymous SN\	C10orf96	NM_198515:c.C50T:p.A17V	0.24	D6
chr11	19207828	19207828	G	A	exonic	nonsynonymous SN\	E2F8	NM_024680:c.C1642T:p.H548Y	0.34	D6
chr12	14555572	14555572	C	G	exonic	nonsynonymous SN\	PLBD1	NM_024829:c.G1075C:p.D359H	0.01	D6
chr12	22246085	22246085	T	A	exonic	nonsynonymous SN\	ST8SIA1	NM_003034:c.A739T:p.T247S	0.53	D6
chr12	41146361	41146361	C	A	exonic	nonsynonymous SN\	PRICKLE1	NM_001144881:c.G677T:p.G226V	0	D6
chr13	37052111	37052111	A	C	exonic	nonsynonymous SN\	POSTN	NM_001135934:c.T1547G:p.L516R	0	D6
chr14	32363376	32363376	T	C	exonic	synonymous SNV	AKAP6	NM_004274:c.T6606C:p.S2202S		D6
chr14	74585782	74585782	C	T	exonic	synonymous SNV	MLH3	NM_001040108:c.G330A:p.S110S		D6
chr15	67106043	67106043	G	T	exonic	stopgain SNV	NOX5	NM_001184779:c.G172T:p.E58X		D6
chr16	75882776	75882776	C	T	exonic	nonsynonymous SN\	ADAMTS18	NM_199355:c.G3290A:p.R1097H	0.16	D6
chr16	82650479	82650479	T	G	exonic	nonsynonymous SN\	MBTPS1	NM_003791:c.A2760C:p.K920N	0.11	D6
chr17	7518988	7518988	G	A	exonic	stopgain SNV	TP53	NM_001126115:c.C190T:p.R64X	0	D6
chr17	55358661	55358661	C	T	exonic	synonymous SNV	RPS6KB1	NM_003161:c.C465T:p.I155I		D6
chr19	59175002	59175002	T	G	exonic	nonsynonymous SN\	CACNG8	NM_031895:c.T437G:p.V146G	0.05	D6
chr20	10551310	10551310	G	A	exonic	synonymous SNV	C20orf94	NM_001009608:c.G510A:p.V170V		D6
chr20	21294273	21294273	A	T	exonic	nonsynonymous SN\	XRN2	NM_012255:c.A2387T:p.K796M	0.05	D6
chr22	41772509	41772509	C	T	exonic	synonymous SNV	TLL1	NM_012263:c.G993A:p.P331P		D6
chrX	9637344	9637344	G	A	exonic	synonymous SNV	TBL1X	NM_001139467:c.G1140A:p.S380S		D6
chrX	54176975	54176975	G	A	exonic	nonsynonymous SN\	FAM120C	NM_017848:c.C1846T:p.R616W	0.01	D6
chrX	71275502	71275502	G	A	exonic	nonsynonymous SN\	NHSL2	NM_001013627:c.G1379A:p.R460H	0	D6
chrX	1.1E+08	1.1E+08	G	A	exonic	nonsynonymous SN\	CAPN6	NM_014289:c.C1330T:p.R444C	0.01	D6
chr1	27299670	27299670	C	T	exonic	synonymous SNV	SLC9A1	NM_003047:c.G2163A:p.P721P		D17
chr1	2.46E+08	2.46E+08	A	C	exonic	nonsynonymous SN\	OR2L2	NM_001004686:c.A8C:p.N3T	0.71	D17
chr5	76749965	76749965	C	T	exonic	synonymous SNV	PDE8B	NM_001029851:c.C1776T:p.T592T		D17
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C4078T:p.Q1360X	0.03	D17
chr6	1.45E+08	1.45E+08	G	A	exonic	synonymous SNV	UTRN	NM_007124:c.G7815A:p.L2605L		D17
chr10	27364257	27364257	C	T	exonic	nonsynonymous SN\	ANKRD26	NM_014915:c.G3128A:p.R1043H	0.29	D17
chr10	1.14E+08	1.14E+08	T	G	exonic	nonsynonymous SN\	ACSL5	NM_016234:c.T772G:p.F258V	0.27	D17
chr12	214594	214594	C	T	exonic	nonsynonymous SN\	SLC6A13	NM_001190997:c.G478A:p.G160R	0	D17
chr14	37748734	37748734	G	A	exonic	nonsynonymous SN\	SSTR1	NM_001049:c.G389A:p.C130Y	0	D17

chr20	18091388	18091388	A	T	exonic	nonsynonymous SN\ CSR2BP	NM_020536:c.A1470T;p.R490S	0	D17
chr20	54407659	54407659	T	A	exonic	nonsynonymous SN\ CSTF1	NM_001033521:c.T875A;p.V292D	0	D17
chrX	1.41E+08	1.41E+08	G	T	exonic	nonsynonymous SN\ MAGEC1	NM_005462:c.G2673T;p.L891F	0.04	D17
chr1	50439218	50439218	C	T	exonic	synonymous SNV ELAVL4	NM_001144774:c.C882T;p.S294S		D18
chr1	1.11E+08	1.11E+08	C	T	exonic	stopgain SNV CD53	NM_000560:c.C493T;p.R165X	0.44	D18
chr1	2.46E+08	2.46E+08	G	A	exonic	nonsynonymous SN\ OR2W3	NM_001001957:c.G100A;p.A34T	0.19	D18
chr2	47455890	47455890	G	T	exonic	stopgain SNV EPCAM	NM_002354:c.G439T;p.E147X	0.11	D18
chr2	48789625	48789625	C	A	exonic	stopgain SNV LHCGR	NM_000233:c.G646T;p.G216X	0.02	D18
chr2	53846193	53846193	G	C	exonic	stopgain SNV ASB3	NM_001164165:c.C135G;p.Y45X		D18
chr2	1.65E+08	1.65E+08	C	A	exonic	stoploss SNV SLC38A11	NM_173512:c.G1154T;p.X385L	0.96	D18
chr3	10376651	10376651	G	A	exonic	nonsynonymous SN\ ATP2B2	NM_001683:c.C1681T;p.R561C	0	D18
chr3	31700200	31700200	G	A	exonic	synonymous SNV OSBPL10	NM_001174060:c.C1464T;p.C488C rs17849744		D18
chr3	1.11E+08	1.11E+08	C	G	exonic	nonsynonymous SN\ DPPA4	NM_018189:c.G289C;p.D97H	0	D18
chr3	1.6E+08	1.6E+08	G	T	exonic	synonymous SNV MLF1	NM_022443:c.G15T;p.L5L		D18
chr3	1.62E+08	1.62E+08	G	A	exonic	nonsynonymous SN\ SMC4	NM_005496:c.G3790A;p.G1264R	0	D18
chr4	74146404	74146404	G	A	exonic	nonsynonymous SN\ COX18	NM_173827:c.C818T;p.T273M	0.01	D18
chr5	1.38E+08	1.38E+08	G	T	exonic	nonsynonymous SN\ CTNNA1	NM_001903:c.G1290T;p.L430F	0.01	D18
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\ PCDHGA7	NM_018920:c.C2282T;p.A761V		D18
chr6	1.19E+08	1.19E+08	G	A	exonic	nonsynonymous SN\ MCM9	NM_017696:c.C364T;p.H122Y	0.7	D18
chr7	3648167	3648167	G	A	exonic	nonsynonymous SN\ SDK1	NM_152744:c.G617A;p.R206H	1	D18
chr7	48422600	48422600	G	A	exonic	nonsynonymous SN\ ABCA13	NM_152701:c.G12170A;p.S4057N		D18
chr7	1.32E+08	1.32E+08	G	T	exonic	nonsynonymous SN\ PLXNA4	NM_001105543:c.C332A;p.T111N	0.05	D18
chr7	1.46E+08	1.46E+08	C	T	exonic	synonymous SNV CNTNAP2	NM_014141:c.C1053T;p.A351A		D18
chr8	1.09E+08	1.09E+08	G	A	exonic	nonsynonymous SN\ RSPO2	NM_178565:c.C520T;p.R174W	0	D18
chr9	1.13E+08	1.13E+08	T	A	exonic	nonsynonymous SN\ OR2K2	NM_205859:c.A328T;p.T110S	0.02	D18
chr9	1.3E+08	1.3E+08	G	A	exonic	synonymous SNV SLC27A4	NM_005094:c.G900A;p.Q300Q		D18
chr10	25927205	25927205	G	A	exonic	nonsynonymous SN\ GPR158	NM_020752:c.G2644A;p.A882T	0	D18
chr10	64637568	64637568	C	T	exonic	stopgain SNV JMJD1C	NM_004241:c.G3210A;p.W1070X	0.1	D18
chr11	1.07E+08	1.07E+08	G	A	exonic	nonsynonymous SN\ CUL5	NM_003478:c.G860A;p.R287K	0.85	D18
chr11	1.19E+08	1.19E+08	G	A	exonic	synonymous SNV ABCG4	NM_001142505:c.G360A;p.E120E		D18
chr12	5973998	5973998	C	T	exonic	nonsynonymous SN\ VWF	NM_000552:c.G6100A;p.V2034M	0.28	D18
chr13	31999630	31999630	G	A	exonic	nonsynonymous SN\ N4BP2L2	NM_033111:c.C62T;p.A21V		D18
chr14	44473067	44473067	C	T	splicing	KLHL28			D18
chr14	67319525	67319525	A	T	exonic	nonsynonymous SN\ ZFYVE26	NM_015346:c.T4097A;p.F1366Y	0.01	D18
chr15	32870656	32870656	C	T	exonic	nonsynonymous SN\ ACTC1	NM_005159:c.G941A;p.R314H		D18
chr16	15631821	15631821	T	C	exonic	nonsynonymous SN\ KIAA0430	NM_001184998:c.A1393G;p.R465G	0	D18
chr16	17139890	17139890	C	A	splicing	XYLT1			D18
chr16	65771254	65771254	G	A	exonic	nonsynonymous SN\ KIAA0895L	NM_001040715:c.C679T;p.R227C	0.05	D18
chr17	7518990	7518990	A	C	exonic	nonsynonymous SN\ TP53	NM_001126115:c.T188G;p.I63S	0	D18
chr18	61627987	61627987	C	T	exonic	nonsynonymous SN\ CDH7	NM_004361:c.C278T;p.S93F	0	D18
chr19	19683744	19683744	C	G	exonic	nonsynonymous SN\ ZNF14	NM_021030:c.G1346C;p.C449S	0.06	D18
chr19	39777028	39777028	C	G	exonic	nonsynonymous SN\ SCGBL	NM_001025591:c.G138C;p.E46D		D18
chr19	45010074	45010074	G	A	exonic	synonymous SNV DYRK1B	NM_004714:c.C870T;p.Y290Y rs78838108		D18
chr19	48131398	48131398	T	C	exonic	nonsynonymous SN\ PSG7	NM_002783:c.A428G;p.Y143C		D18
chr19	53571223	53571223	G	C	exonic	nonsynonymous SN\ SYNG4	NM_012451:c.G541C;p.D181H	0.04	D18
chr20	1909480	1909480	T	G	exonic	nonsynonymous SN\ PDYN	NM_001190892:c.A254C;p.K85T	0.06	D18
chr20	18244993	18244993	G	A	exonic	nonsynonymous SN\ ZNF133	NM_001083330:c.G1495A;p.G499R	0.01	D18
chr20	36833782	36833782	G	A	exonic	nonsynonymous SN\ ACTR5	NM_024855:c.G1733A;p.R578H	0.05	D18
chr20	52223046	52223046	C	A	splicing	CYP24A1			D18
chrX	18949208	18949208	A	C	exonic	nonsynonymous SN\ GPR64	NM_001184835:c.T464G;p.L155R	0	D18
chrX	66859452	66859452	C	T	exonic	synonymous SNV AR	NM_000044:c.C2508T;p.I836I		D18
chr1	47052485	47052485	C	T	exonic	nonsynonymous SN\ CYP4B1	NM_000779:c.C790T;p.R264W rs45446505	0	D2
chr1	62873113	62873113	T	G	exonic	synonymous SNV DOCK7	NM_033407:c.A954C;p.P318P		D2

chr1	1.17E+08	1.17E+08	C	G	exonic	synonymous SNV	CD2	NM_001767:c.C27G;p.A9A		D2
chr1	1.78E+08	1.78E+08	C	T	exonic	nonsynonymous SNV	NPHS2	NM_014625:c.G880A;p.A294T		0 D2
chr1	1.91E+08	1.91E+08	A	G	exonic	nonsynonymous SNV	CDC73	NM_024529:c.A970G;p.T324A		0.04 D2
chr1	2.08E+08	2.08E+08	T	C	exonic	nonsynonymous SNV	HSD11B1	NM_005525:c.T95C;p.L32P		0 D2
chr2	1.16E+08	1.16E+08	G	A	exonic	nonsynonymous SNV	DPP10	NM_001004360:c.G1226A;p.R409Q		0.83 D2
chr2	1.8E+08	1.8E+08	C	T	exonic	nonsynonymous SNV	ZNF385B	NM_001113397:c.G65A;p.R22H		0.11 D2
chr2	2.1E+08	2.1E+08	C	A	exonic	synonymous SNV	MAP2	NM_031847:c.C1029A;p.I343I		D2
chr2	2.11E+08	2.11E+08	G	A	exonic	stopgain SNV	ACADL	NM_001608:c.C736T;p.R246X		0.09 D2
chr2	2.16E+08	2.16E+08	T	A	exonic	nonsynonymous SNV	ABCA12	NM_015657:c.A1560T;p.K520N		0.1 D2
chr3	9845938	9845938	C	T	exonic	synonymous SNV	ARPC4-TTLL3,TTLL	NM_001025930:c.C1842T;p.N614N		D2
chr3	48692148	48692148	T	G	exonic	nonsynonymous SNV	NCKIPSD	NM_016453:c.A1353C;p.E451D		0 D2
chr3	74556736	74556736	C	T	exonic	nonsynonymous SNV	CNTN3	NM_020872:c.G404A;p.R135H		0.42 D2
chr3	1.75E+08	1.75E+08	G	T	exonic	synonymous SNV	NLGN1	NM_014932:c.G348T;p.V116V		D2
chr4	13230751	13230751	A	T	exonic	nonsynonymous SNV	BOD1L	NM_148894:c.T282A;p.F94L		0.02 D2
chr5	14555768	14555768	T	G	splicing		TRIO			D2
chr5	26938340	26938340	A	T	splicing		CDH9			D2
chr5	37099878	37099878	C	T	exonic	nonsynonymous SNV	NIPBL	NM_015384:c.C8090T;p.T2697M		D2
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3862T;p.E1288X		0.1 D2
chr6	26496411	26496411	A	G	exonic	nonsynonymous SNV	BTN2A2	NM_181531:c.A286G;p.I96V		0.27 D2
chr7	69221100	69221100	C	A	exonic	nonsynonymous SNV	AUTS2	NM_001127231:c.C569A;p.A190D		0 D2
chr7	1.57E+08	1.57E+08	C	G	exonic	synonymous SNV	UBE3C	NM_014671:c.C3069G;p.L1023L		D2
chr8	11204598	11204598	G	A	exonic	nonsynonymous SNV	MTMR9	NM_015458:c.G962A;p.C321Y		0 D2
chr8	54844835	54844835	T	A	exonic	synonymous SNV	ATP6V1H	NM_213619:c.A1017T;p.S339S		D2
chr8	55703564	55703564	A	G	exonic	nonsynonymous SNV	RP1	NM_006269:c.A4569G;p.I1523M		0.05 D2
chr8	55703639	55703639	T	G	exonic	nonsynonymous SNV	RP1	NM_006269:c.T4644G;p.S1548R		0 D2
chr8	56598585	56598585	T	C	exonic	nonsynonymous SNV	XKR4	NM_052898:c.T1198C;p.Y400H		0.01 D2
chr8	59646022	59646022	A	C	exonic	nonsynonymous SNV	SDCBP	NM_001007067:c.A74C;p.N25T		0.87 D2
chr9	91168487	91168487	A	G	exonic	nonsynonymous SNV	SEMA4D	NM_001142287:c.T2081C;p.V694A		0.05 D2
chr10	24860840	24860840	G	A	exonic	nonsynonymous SNV	KIAA1217	NM_001098501:c.G3053A;p.R1018H		0 D2
chr11	62172833	62172833	C	T	exonic	nonsynonymous SNV	INTS5	NM_030628:c.G1295A;p.R432H		0.21 D2
chr12	7530824	7530824	C	T	exonic	synonymous SNV	CD163	NM_004244:c.G2076A;p.S692S		D2
chr12	14929950	14929950	C	A	exonic	nonsynonymous SNV	MGP	NM_000900:c.G43T;p.V15L	rs112598629	0.6 D2
chr12	27020521	27020521	C	T	exonic	stopgain SNV	TM7SF3	NM_016551:c.G1226A;p.W409X		0.52 D2
chr12	38012982	38012982	C	T	exonic	synonymous SNV	KIF21A	NM_001173465:c.G2574A;p.T858T		D2
chr12	46802888	46802888	A	G	exonic	nonsynonymous SNV	PFKM	NM_001166688:c.A64G;p.T22A		0 D2
chr12	56263201	56263201	C	A	exonic	nonsynonymous SNV	KIF5A	NM_004984:c.C3071A;p.P1024H		0 D2
chr12	69425966	69425966	G	A	exonic	synonymous SNV	PTPRR	NM_130846:c.C171T;p.V57V		D2
chr12	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SNV	ACACB	NM_001093:c.G2857A;p.E953K		D2
chr13	83353599	83353599	G	A	exonic	synonymous SNV	SLITRK1	NM_052910:c.C45T;p.A15A		D2
chr13	99751848	99751848	T	G	exonic	nonsynonymous SNV	PCCA	NM_001127692:c.T1121G;p.V374G		0 D2
chr14	64564232	64564232	C	T	exonic	synonymous SNV	FNBT	NM_002028:c.C585T;p.V195V		D2
chr16	30040812	30040812	C	T	exonic	nonsynonymous SNV	MAPK3	NM_001040056:c.G187A;p.V63M		0.06 D2
chr16	79276271	79276271	G	A	exonic	nonsynonymous SNV	CDYL2	NM_152342:c.C281T;p.S94L		0.29 D2
chr17	651052	651052	C	A	exonic	nonsynonymous SNV	NXN	NM_022463:c.G1195T;p.D399Y		0.01 D2
chr17	11777940	11777940	C	T	exonic	nonsynonymous SNV	DNAH9	NM_004662:c.C1252T;p.R418C		0 D2
chr19	16779668	16779668	C	T	exonic	synonymous SNV	NWD1	NM_001007525:c.C4008T;p.I1336I		D2
chr20	10576750	10576750	G	A	exonic	synonymous SNV	JAG1	NM_000214:c.C1578T;p.I526I	rs1801139	D2
chr20	31902531	31902531	G	A	exonic	nonsynonymous SNV	CHMP4B	NM_176812:c.G481A;p.E161K	rs118203966	0.01 D2
chr20	54521841	54521841	G	A	exonic	nonsynonymous SNV	C20orf43	NM_016407:c.G541A;p.V181M		0.21 D2
chr20	62176097	62176097	G	A	exonic	synonymous SNV	RGS19	NM_001039467:c.C306T;p.S102S		D2
chrX	17655330	17655330	C	G	exonic	synonymous SNV	NHS	NM_198270:c.C3120G;p.S1040S		D2
chrX	21961112	21961112	T	C	exonic	nonsynonymous SNV	PHEX	NM_000444:c.T68C;p.L23P		0 D2
chrX	29211241	29211241	C	T	exonic	synonymous SNV	IL1RAPL1	NM_014271:c.C348T;p.Y116Y		D2

chrX	54800176	54800176	A	G	exonic	nonsynonymous SN\	ITIH5L	NM_198510:c.T3056C;p.V1019A	0.03	D2	
chrX	67855068	67855068	C	T	exonic	synonymous SNV	STARD8	NM_001142504:c.C1347T;p.S449S		D2	
chr1	20863705	20863705	G	A	exonic	nonsynonymous SN\	KIF17	NM_001122819:c.C3046T;p.R1016C	0.01	D22	
chr1	32052353	32052353	G	A	exonic	nonsynonymous SN\	SPOCD1	NM_144569:c.C1169T;p.S390F	0	D22	
chr1	46300228	46300228	C	A	exonic	stopgain SNV	PIK3R3	NM_003629:c.G724T;p.E242X	0.02	D22	
chr1	1.51E+08	1.51E+08	A	C	exonic	nonsynonymous SN\	FLG2	NM_001014342:c.T452G;p.V151G		D22	
chr1	1.57E+08	1.57E+08	C	T	exonic	nonsynonymous SN\	SPTA1	NM_003126:c.G1703A;p.R568H	0.29	D22	
chr1	1.97E+08	1.97E+08	A	T	splicing		PTPRC			D22	
chr1	2.14E+08	2.14E+08	A	T	exonic	nonsynonymous SN\	USH2A	NM_206933:c.T15160A;p.L5054M	0	D22	
chr1	2.46E+08	2.46E+08	T	C	exonic	nonsynonymous SN\	OR2L8	NM_001001963:c.T95C;p.F32S	0.25	D22	
chr2	70786890	70786890	G	A	exonic	synonymous SNV	ADD2	NM_001185055:c.C207T;p.R69R		D22	
chr2	2.28E+08	2.28E+08	G	A	exonic	synonymous SNV	WDR69	NM_178821:c.G309A;p.S103S		D22	
chr3	14495637	14495637	C	G	exonic	synonymous SNV	SLC6A6	NM_001134367:c.C1491G;p.G497G		D22	
chr3	39282578	39282578	C	T	exonic	nonsynonymous SN\	CX3CR1	NM_001171171:c.G427A;p.V143M	0.01	D22	
chr3	46282521	46282521	G	T	exonic	nonsynonymous SN\	CCR3	NM_178329:c.G868T;p.A290S	0.15	D22	
chr3	1.13E+08	1.13E+08	T	G	exonic	nonsynonymous SN\	GCET2	NM_001190260:c.A138C;p.Q46H	rs74831119	0.1	D22
chr3	1.42E+08	1.42E+08	C	T	exonic	nonsynonymous SN\	CLSTN2	NM_022131:c.C1264T;p.R422C	0	D22	
chr4	1.08E+08	1.08E+08	T	G	exonic	synonymous SNV	DKK2	NM_014421:c.A336C;p.R112R		D22	
chr4	1.27E+08	1.27E+08	A	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.A14040T;p.Q4680H	0.31	D22	
chr4	1.52E+08	1.52E+08	G	C	exonic	stopgain SNV	SH3D19	NM_001128924:c.C122G;p.S41X	0	D22	
chr4	1.55E+08	1.55E+08	C	T	exonic	nonsynonymous SN\	TLR2	NM_003264:c.C2195T;p.A732V	0	D22	
chr5	7762499	7762499	C	T	exonic;splicing	nonsynonymous SN\	ADCY2	NM_020546:c.C1577T;p.T526M		D22	
chr5	14421832	14421832	G	A	exonic	nonsynonymous SN\	TRIO	NM_007118:c.G2890A;p.A964T	0.12	D22	
chr5	55443308	55443308	G	A	exonic	nonsynonymous SN\	ANKRD55	NM_024669:c.C1024T;p.R342W	0	D22	
chr5	1.12E+08	1.12E+08	T	G	exonic	stopgain SNV	APC	NM_001127511:c.T1862G;p.L621X	0	D22	
chr5	1.12E+08	1.12E+08	A	G	exonic	synonymous SNV	APC	NM_001127511:c.A7776G;p.G2592G		D22	
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHB1	NM_013340:c.C788T;p.T263M	0.05	D22	
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\	PCDHB7	NM_018940:c.C2150T;p.A717V	rs80165947	0.08	D22
chr5	1.51E+08	1.51E+08	G	A	exonic	synonymous SNV	SLC36A1	NM_078483:c.G993A;p.L331L		D22	
chr5	1.78E+08	1.78E+08	G	A	exonic	nonsynonymous SN\	ADAMTS2	NM_014244:c.C2071T;p.R691C	0.01	D22	
chr7	6337104	6337104	C	T	exonic	synonymous SNV	C7orf70	NM_001037163:c.G207A;p.P69P		D22	
chr7	37926886	37926886	C	T	exonic	synonymous SNV	EPDR1	NM_017549:c.C180T;p.T60T		D22	
chr7	88803404	88803404	G	A	exonic	nonsynonymous SN\	ZNF804B	NM_181646:c.G3172A;p.E1058K	0.05	D22	
chr8	2041517	2041517	C	T	exonic	nonsynonymous SN\	MYOM2	NM_003970:c.C2813T;p.A938V	0.13	D22	
chr8	1.01E+08	1.01E+08	C	T	exonic	nonsynonymous SN\	RGS22	NM_015668:c.G3323A;p.R1108Q	0.46	D22	
chr9	72123679	72123679	A	C	exonic	nonsynonymous SN\	SMC5	NM_015110:c.A2130C;p.K710N		D22	
chr9	96575189	96575189	G	T	exonic	nonsynonymous SN\	C9orf3	NM_001193329:c.G882T;p.W294C	0	D22	
chr9	1.02E+08	1.02E+08	G	C	exonic	nonsynonymous SN\	INVS	NM_014425:c.G807C;p.Q269H	0.01	D22	
chr10	42933832	42933832	G	A	exonic	nonsynonymous SN\	RET	NM_020630:c.G2290A;p.A764T	0.01	D22	
chr10	43011991	43011991	C	T	exonic	nonsynonymous SN\	RASGEF1A	NM_145313:c.G1360A;p.A454T	0.05	D22	
chr10	1.06E+08	1.06E+08	G	A	exonic	nonsynonymous SN\	CCDC147	NM_001008723:c.G1276A;p.D426N	0.36	D22	
chr10	1.35E+08	1.35E+08	C	T	exonic	synonymous SNV	KNDC1	NM_152643:c.C1272T;p.D424D		D22	
chr11	2126989	2126989	G	A	exonic	nonsynonymous SN\	INS-IGF2	NM_001042376:c.C350T;p.P117L		D22	
chr11	4523807	4523807	G	A	exonic	nonsynonymous SN\	OR52M1	NM_001004137:c.G811A;p.V271M	0.02	D22	
chr11	5418615	5418615	G	A	exonic	nonsynonymous SN\	OR5111	NM_001005288:c.C706T;p.R236W	0	D22	
chr12	10653797	10653797	T	C	exonic	nonsynonymous SN\	MAGOHB	NM_018048:c.A164G;p.H55R	0.02	D22	
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35T;p.G12V	0	D22	
chr12	41150358	41150358	C	T	exonic	nonsynonymous SN\	PRICKLE1	NM_001144881:c.G203A;p.R68Q	0	D22	
chr12	1.1E+08	1.1E+08	G	T	exonic	nonsynonymous SN\	CUX2	NM_015267:c.G4163T;p.R1388L	0.24	D22	
chr13	27506473	27506473	C	T	exonic	nonsynonymous SN\	FLT3	NM_004119:c.G1669A;p.V557I	rs35958982	0.56	D22
chr13	47426685	47426685	T	C	exonic	nonsynonymous SN\	SUCLA2	NM_003850:c.A811G;p.M271V	0.03	D22	
chr13	49492358	49492358	T	C	exonic	nonsynonymous SN\	KCNRG	NM_173605:c.T586C;p.S196P	0	D22	
chr13	77218689	77218689	C	G	exonic	stopgain SNV	SLAIN1	NM_144595:c.C101G;p.S34X	0.01	D22	

chr14	93033321	93033321	C	A	exonic	nonsynonymous SN\ KIAA1409	NM_020818:c.C303A:p.F101L	0.36	D22
chr14	93076915	93076915	C	T	exonic	synonymous SNV KIAA1409	NM_020818:c.C978T:p.F326F		D22
chr14	1.03E+08	1.03E+08	C	T	exonic	stopgain SNV MARK3	NM_001128921:c.C1273T:p.R425X	0.01	D22
chr15	60091647	60091647	C	T	exonic	synonymous SNV VPS13C	NM_017684:c.G705A:p.L235L		D22
chr16	31030734	31030734	C	T	exonic	nonsynonymous SN\ BCKDK	NM_001122957:c.C979T:p.R327W	0.01	D22
chr16	56869924	56869924	G	A	exonic	nonsynonymous SN\ CCDC113	NM_001142302:c.G767A:p.R256Q	0.06	D22
chr17	4402290	4402290	G	A	exonic	nonsynonymous SN\ MYBBP1A	NM_001105538:c.C784T:p.R262C	0.03	D22
chr17	59120683	59120683	A	C	exonic	nonsynonymous SN\ MAP3K3	NM_002401:c.A919C:p.T307P	0.18	D22
chr18	38949435	38949435	G	A	exonic	synonymous SNV RIT2	NM_002930:c.C48T:p.G16G		D22
chr18	42815341	42815341	C	T	exonic	nonsynonymous SN\ TCEB3B	NM_016427:c.G293A:p.R98H	0.24	D22
chr19	16949186	16949186	C	T	exonic	nonsynonymous SN\ CPAMD8	NM_015692:c.G1891A:p.E631K	0	D22
chr19	46079821	46079821	G	C	exonic	nonsynonymous SN\ CYP2A7	NM_000764:c.C135G:p.N45K	0	D22
chr19	46913885	46913885	A	T	splicing	CEACAM5			D22
chr19	56914341	56914341	C	T	exonic	nonsynonymous SN\ HAS1	NM_001523:c.G632A:p.R211H	0.02	D22
chr19	58772339	58772339	C	A	exonic	nonsynonymous SN\ ZNF331	NM_001079906:c.C713A:p.T238N	0.01	D22
chr19	59475592	59475592	C	A	exonic	nonsynonymous SN\ LILRB2	NM_001080978:c.G221T:p.R74L	0.23	D22
chr19	62531837	62531837	G	T	exonic	stopgain SNV ZNF543	NM_213598:c.G1195T:p.E399X	0	D22
chr20	43362995	43362995	G	T	exonic	nonsynonymous SN\ MATN4	NM_030592:c.C712A:p.R238S	0.4	D22
chr20	47958174	47958174	G	A	exonic	synonymous SNV SPATA2	NM_001135773:c.C261T:p.G87G		D22
chr22	30965018	30965018	C	T	exonic	synonymous SNV SLC5A4	NM_014227:c.G537A:p.L179L		D22
chrX	14658502	14658502	C	T	exonic	nonsynonymous SN\ GLRA2	NM_001118886:c.C1333T:p.R445W	0	D22
chrX	70559759	70559759	C	T	exonic	nonsynonymous SN\ TAF1	NM_004606:c.C4580T:p.A1527V	0.01	D22
chrX	1.11E+08	1.11E+08	C	T	exonic	synonymous SNV TRPC5	NM_012471:c.G423A:p.P141P		D22
chr1	24074101	24074101	G	A	exonic	synonymous SNV CNR2	NM_001841:c.C594T:p.I198I		D4
chr1	2.4E+08	2.4E+08	C	A	exonic	nonsynonymous SN\ EXO1	NM_003686:c.C289A:p.Q97K	0.33	D4
chr2	1.2E+08	1.2E+08	G	A	exonic	synonymous SNV SCTR	NM_002980:c.C732T:p.L244L		D4
chr2	1.33E+08	1.33E+08	A	C	exonic	nonsynonymous SN\ GPR39	NM_001508:c.A533C:p.Y178S	0.64	D4
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV LRP2	NM_004525:c.C9312T:p.S3104S		D4
chr2	1.7E+08	1.7E+08	C	T	exonic	nonsynonymous SN\ LRP2	NM_004525:c.G6742A:p.V2248I	0.46	D4
chr3	1.45E+08	1.45E+08	C	T	exonic	synonymous SNV SLC9A9	NM_173653:c.G1158A:p.T386T		D4
chr4	1.85E+08	1.85E+08	G	A	exonic	synonymous SNV ENPP6	NM_153343:c.C810T:p.R270R		D4
chr5	6705093	6705093	C	T	exonic	synonymous SNV SRD5A1	NM_001047:c.C432T:p.D144D		D4
chr5	24571608	24571608	G	T	exonic	nonsynonymous SN\ CDH10	NM_006727:c.C607A:p.L203I	0.1	D4
chr5	26951609	26951609	G	A	exonic	nonsynonymous SN\ CDH9	NM_016279:c.C409T:p.R137W	0.01	D4
chr5	1.41E+08	1.41E+08	G	T	exonic	nonsynonymous SN\ PCDHB8	NM_019120:c.G853T:p.A285S	0.11	D4
chr5	1.59E+08	1.59E+08	T	G	exonic	nonsynonymous SN\ IL12B	NM_002187:c.A220C:p.T74P	0.03	D4
chr6	2893716	2893716	C	T	exonic	nonsynonymous SN\ SERPINB6	NM_004568:c.G946A:p.V316M	0.03	D4
chr6	39710603	39710603	G	A	exonic;splicing	nonsynonymous SN\ KIF6;KIF6	NM_145027:c.C509T:p.P170L	0.01	D4
chr6	42304133	42304133	A	T	exonic	synonymous SNV TRERF1	NM_033502:c.T3531A:p.A1177A		D4
chr6	97685464	97685464	T	C	exonic	synonymous SNV KLHL32	NM_052904:c.T1524C:p.N508N		D4
chr6	1.48E+08	1.48E+08	A	G	exonic	synonymous SNV STXBP5	NM_001127715:c.A699G:p.R233R		D4
chr6	1.66E+08	1.66E+08	C	T	exonic	nonsynonymous SN\ PDE10A	NM_001130690:c.G2338A:p.V780M	0.14	D4
chr7	1.03E+08	1.03E+08	T	G	exonic	nonsynonymous SN\ PSMC2	NM_001204453:c.T177G:p.I59M	0.04	D4
chr7	1.37E+08	1.37E+08	G	A	exonic	nonsynonymous SN\ DGKI	NM_004717:c.C2179T:p.R727W	0.01	D4
chr8	24413609	24413609	G	T	exonic	nonsynonymous SN\ ADAM7	NM_003817:c.G1952T:p.C651F	0	D4
chr9	5703906	5703906	C	T	exonic	stopgain SNV KIAA1432	NM_020829:c.C106T:p.Q36X	0.89	D4
chr9	1.29E+08	1.29E+08	G	A	exonic	synonymous SNV GARNL3	NM_032293:c.G741A:p.T247T		D4
chr10	1.34E+08	1.34E+08	C	T	exonic	nonsynonymous SN\ LRRC27	NM_001143757:c.C505T:p.R169W		D4
chr11	59377071	59377071	C	T	exonic	nonsynonymous SN\ TCN1	NM_001062:c.G1255A:p.V419I	0.94	D4
chr14	38630622	38630622	C	A	exonic	nonsynonymous SN\ SEC23A	NM_006364:c.G413T:p.C138F	0	D4
chr15	58555646	58555646	G	T	exonic	synonymous SNV NARG2	NM_024611:c.C54A:p.P18P		D4
chr15	72260753	72260753	G	A	exonic	synonymous SNV STRA6	NM_001142617:c.C1620T:p.N540N		D4
chr16	20604021	20604021	C	T	exonic	nonsynonymous SN\ ACSM1	NM_052956:c.G398A:p.R133Q	0.02	D4

chr17	7517846	7517846	G	A	exonic	nonsynonymous SN\ TP53	NM_001126115:c.C421T:p.R141C	0	D4
chr17	42371115	42371115	A	C	exonic	nonsynonymous SN\ GOSR2	NM_004287:c.A629C:p.Y210S		D4
chr17	51889247	51889247	C	T	exonic	nonsynonymous SN\ ANKFN1	NM_153228:c.C1243T:p.R415C	0	D4
chr19	8814474	8814474	G	A	exonic	synonymous SNV MBD3L1	NM_145208:c.G120A:p.T40T		D4
chr19	51951741	51951741	C	T	exonic	synonymous SNV FKRP	NM_001039885:c.C1194T:p.V398V		D4
chr19	61425890	61425890	G	A	exonic	synonymous SNV ZSCAN5A	NM_024303:c.C621T:p.D207D		D4
chr1	7915909	7915909	C	T	exonic	synonymous SNV TNFRSF9	NM_001561:c.G579A:p.A193A		D8
chr1	12259409	12259409	C	A	exonic	nonsynonymous SN\ VPS13D	NM_015378:c.C3177A:p.N1059K	0.03	D8
chr1	46583063	46583063	G	T	exonic	nonsynonymous SN\ NSUN4	NM_199044:c.G97T:p.A33S	0.81	D8
chr1	1.15E+08	1.15E+08	C	T	exonic	nonsynonymous SN\ AMPD1	NM_001172626:c.G2035A:p.D679N	0	D8
chr1	1.49E+08	1.49E+08	C	T	exonic;splicing	synonymous SNV CDC42SE1	NM_020239:c.G54A:p.P18P		D8
chr1	1.51E+08	1.51E+08	G	C	exonic	nonsynonymous SN\ FLG	NM_002016:c.C7347G:p.S2449R	0.02	D8
chr1	1.57E+08	1.57E+08	C	A	exonic	nonsynonymous SN\ OR6K2	NM_001005279:c.G838T:p.A280S	1	D8
chr2	54705531	54705531	C	T	exonic	synonymous SNV SPTBN1	NM_178313:c.C1230T:p.L410L		D8
chr2	74332839	74332839	C	A	exonic	nonsynonymous SN\ SLC4A5	NM_021196:c.G1453T:p.G485W	0.01	D8
chr2	1.63E+08	1.63E+08	G	A	exonic	nonsynonymous SN\ GCA	NM_012198:c.G328A:p.G110R	0	D8
chr2	2.08E+08	2.08E+08	C	T	exonic	nonsynonymous SN\ CPO	NM_173077:c.C923T:p.T308M	0	D8
chr2	2.12E+08	2.12E+08	C	T	exonic	synonymous SNV ERBB4	NM_001042599:c.G1566A:p.S522S		D8
chr3	13835828	13835828	G	A	exonic	nonsynonymous SN\ WNT7A	NM_004625:c.C664T:p.R222W	0	D8
chr3	50391587	50391587	C	T	exonic	synonymous SNV CACNA2D2	NM_001005505:c.G1200A:p.T400T		D8
chr3	1.62E+08	1.62E+08	G	A	exonic	nonsynonymous SN\ PPM1L	NM_139245:c.G661A:p.D221N	0.55	D8
chr3	1.84E+08	1.84E+08	G	T	exonic	stopgain SNV ATP11B	NM_014616:c.G1684T:p.E562X	0.28	D8
chr5	38538574	38538574	G	A	exonic	nonsynonymous SN\ LIFR	NM_001127671:c.C1522T:p.R508W	0.01	D8
chr5	60491662	60491662	G	A	exonic	nonsynonymous SN\ C5orf43	NM_001048249:c.C94T:p.P32S	0	D8
chr5	71662853	71662853	G	T	exonic	nonsynonymous SN\ PTC2D	NM_024754:c.G363T:p.E121D	0.26	D8
chr5	1.79E+08	1.79E+08	C	T	splicing	HNRNP11			D8
chr6	27914439	27914439	C	T	exonic	synonymous SNV HIST1H2BN	NM_003520:c.C21T:p.S7S		D8
chr6	71292382	71292382	T	G	exonic	nonsynonymous SN\ FAM135A	NM_001162529:c.T2874G:p.N958K	0.08	D8
chr6	1E+08	1E+08	C	T	exonic	nonsynonymous SN\ USP45	NM_001080481:c.G839A:p.C280Y	0	D8
chr7	18033738	18033738	C	T	exonic	nonsynonymous SN\ PRPS1L1	NM_175886:c.G193A:p.D65N		D8
chr7	73573548	73573548	G	A	exonic	nonsynonymous SN\ GTF2IRD1	NM_001199207:c.G1087A:p.V363I	0.1	D8
chr7	77811069	77811069	G	A	exonic	nonsynonymous SN\ MAGI2	NM_012301:c.C1370T:p.P457L	0.74	D8
chr7	81173613	81173613	G	T	exonic	stopgain SNV HGF	NM_000601:c.C1683A:p.C561X	0.03	D8
chr8	15525016	15525016	C	A	exonic	synonymous SNV TUSC3	NM_006765:c.C195A:p.I65I		D8
chr8	53247125	53247125	G	A	exonic	synonymous SNV ST18	NM_014682:c.C849T:p.S283S		D8
chr8	55217884	55217884	G	A	exonic	nonsynonymous SN\ MRPL15	NM_014175:c.G538A:p.D180N	0.1	D8
chr8	80840526	80840526	G	A	exonic	nonsynonymous SN\ HEY1	NM_001040708:c.C379T:p.R127W	0.01	D8
chr8	1.14E+08	1.14E+08	C	A	exonic	synonymous SNV CSMD3	NM_052900:c.G3003T:p.V1001V		D8
chr9	8461077	8461077	T	A	exonic	nonsynonymous SN\ PTPRD	NM_001171025:c.A2159T:p.Y720F	0.18	D8
chr9	19342591	19342591	C	A	exonic	nonsynonymous SN\ DENND4C	NM_017925:c.C3854A:p.A1285D	0.01	D8
chr10	30776875	30776875	G	A	exonic	synonymous SNV MAP3K8	NM_005204:c.G495A:p.A165A		D8
chr10	55798899	55798899	G	T	exonic	nonsynonymous SN\ PCDH15	NM_001142768:c.C395A:p.A132D	0.01	D8
chr11	4746852	4746852	G	A	exonic	nonsynonymous SN\ OR51F1	NM_001004752:c.C872T:p.P291L	0	D8
chr11	14796459	14796459	T	C	exonic	synonymous SNV PDE3B	NM_000922:c.T1677C:p.P559P		D8
chr11	60814892	60814892	C	T	exonic	nonsynonymous SN\ VVCE	NM_152718:c.G379A:p.V127M	0.13	D8
chr12	1161367	1161367	C	T	exonic	nonsynonymous SN\ ERC1	NM_178039:c.C1807T:p.R603C	0.01	D8
chr12	25289551	25289551	C	A	exonic	nonsynonymous SN\ KRAS	NM_004985:c.G35T:p.G12V	0	D8
chr12	86963676	86963676	G	T	exonic	nonsynonymous SN\ C12orf29	NM_001009894:c.G608T:p.G203V	0.03	D8
chr12	1.28E+08	1.28E+08	C	A	exonic	synonymous SNV TMEM132D	NM_133448:c.G1791T:p.L597L		D8
chr13	66698003	66698003	C	G	exonic	nonsynonymous SN\ PCDH9	NM_020403:c.G2571C:p.M857I	0.36	D8
chr14	62517507	62517507	C	A	exonic	nonsynonymous SN\ KCNH5	NM_139318:c.G778T:p.V260F	0.01	D8
chr15	26031952	26031952	C	T	exonic	nonsynonymous SN\ HERC2	NM_004667:c.G14092A:p.A4698T	0.05	D8
chr16	2753356	2753356	G	A	exonic	synonymous SNV SRRM2	NM_016333:c.G2826A:p.T942T		D8

chr17	30488707	30488707	C	T	exonic	stopgain SNV	NLE1	NM_018096:c.G603A:p.W201X	0.01	D8
chr17	30545107	30545107	G	A	exonic	synonymous SNV	AMAC1	NM_152462:c.C333T:p.N111N		D8
chr18	32446039	32446039	C	A	exonic	nonsynonymous SNV	FHOD3	NM_025135:c.C940A:p.Q314K	0.12	D8
chr18	75760561	75760561	G	A	exonic	synonymous SNV	KCNG2	NM_012283:c.G1158A:p.A386A		D8
chr18	75995149	75995149	C	T	exonic	stopgain SNV	ADNP2	NM_014913:c.C862T:p.Q288X	0.64	D8
chr19	48458035	48458035	C	T	exonic	nonsynonymous SNV	PSG9	NM_002784:c.G526A:p.A176T	0.54	D8
chr19	53235736	53235736	G	A	exonic	nonsynonymous SNV	CABP5	NM_019855:c.C176T:p.T59M		0 D8
chr19	59236998	59236998	C	T	exonic	synonymous SNV	VSTM1	NM_198481:c.G537A:p.P179P	rs73058793	D8
chr19	59798015	59798015	G	A	exonic	stopgain SNV	LILRA1	NM_006863:c.G144A:p.W48X		0.02 D8
chr20	17188937	17188937	C	T	exonic	nonsynonymous SNV	PCSK2	NM_002594:c.C230T:p.A77V		0.58 D8
chr22	28455184	28455184	C	T	exonic	synonymous SNV	CABP7	NM_182527:c.C507T:p.P169P		D8
chrX	47313230	47313230	G	A	exonic	nonsynonymous SNV	ARAF	NM_001654:c.G1246A:p.G416S		0 D8
chrX	1.28E+08	1.28E+08	C	A	exonic	stopgain SNV	SMARCA1	NM_139035:c.G3073T:p.E1025X		0.79 D8
chr1	2.12E+08	2.12E+08	A	C	exonic	nonsynonymous SNV	PROX1	NM_002763:c.A1625C:p.H542P		0.17 D5
chr2	80383903	80383903	G	A	exonic	nonsynonymous SNV	LRRTM1	NM_178839:c.C553T:p.R185C		0 D5
chr2	1.79E+08	1.79E+08	A	C	exonic	nonsynonymous SNV	FKBP7	NM_001135212:c.T590G:p.F197C		0 D5
chr2	2.11E+08	2.11E+08	C	T	exonic	nonsynonymous SNV	ACADL	NM_001608:c.G182A:p.R61Q		0.04 D5
chr2	2.18E+08	2.18E+08	G	A	exonic	nonsynonymous SNV	TNS1	NM_022648:c.C203T:p.T68M		0.01 D5
chr3	51655480	51655480	A	C	exonic	nonsynonymous SNV	RAD54L2	NM_015106:c.A2969C:p.Y990S		0.09 D5
chr3	61950423	61950423	A	T	exonic	nonsynonymous SNV	PTPRG	NM_002841:c.A275T:p.Y92F		0.04 D5
chr4	3287822	3287822	G	A	exonic	nonsynonymous SNV	RGS12	NM_002926:c.G127A:p.V43M		0.03 D5
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C1441T:p.R481X		0 D5
chr5	1.4E+08	1.4E+08	C	T	exonic	synonymous SNV	PCDHA1	NM_018898:c.C2694T:p.P898P		D5
chr5	1.4E+08	1.4E+08	G	A	exonic	nonsynonymous SNV	PCDHB5	NM_015669:c.G605A:p.R202Q		0.01 D5
chr5	1.56E+08	1.56E+08	C	T	exonic	synonymous SNV	TIMD4	NM_001146726:c.G954A:p.S318S		D5
chr6	1.1E+08	1.1E+08	C	T	exonic	nonsynonymous SNV	PPIL6	NM_001111298:c.G397A:p.A133T		0.67 D5
chr6	1.6E+08	1.6E+08	C	T	exonic	stopgain SNV	IGF2R	NM_000876:c.C2473T:p.R825X		0.02 D5
chr7	1.05E+08	1.05E+08	G	T	exonic	nonsynonymous SNV	PUS7	NM_019042:c.C1891A:p.P631T		0.04 D5
chr8	82554301	82554301	G	C	exonic	nonsynonymous SNV	FABP4	NM_001442:c.C251G:p.T84S		0.01 D5
chr9	72403263	72403263	G	A	exonic	synonymous SNV	TRPM3	NM_206944:c.C2415T:p.D805D		D5
chr10	25200936	25200936	T	C	exonic	synonymous SNV	PRTFDC1	NM_020200:c.A402G:p.G134G		D5
chr10	28189639	28189639	C	T	exonic	nonsynonymous SNV	ARMC4	NM_018076:c.G2942A:p.R981Q		0.02 D5
chr10	33177569	33177569	G	A	exonic	nonsynonymous SNV	C10orf68	NM_024688:c.G1541A:p.R514H		0 D5
chr10	51250940	51250940	G	A	exonic	nonsynonymous SNV	NCOA4	NM_001145262:c.G337A:p.D113N		0.02 D5
chr11	1.24E+08	1.24E+08	G	A	exonic	nonsynonymous SNV	OR8B8	NM_012378:c.C656T:p.A219V		0.68 D5
chr12	6794192	6794192	C	T	exonic	nonsynonymous SNV	CD4	NM_000616:c.C380T:p.A127V		0.17 D5
chr12	6794193	6794193	C	G	exonic	synonymous SNV	CD4	NM_000616:c.C381G:p.A127A		D5
chr12	7875492	7875492	C	T	exonic	nonsynonymous SNV	SLC2A14	NM_153449:c.G316A:p.G106R		0 D5
chr12	32338254	32338254	G	A	exonic	synonymous SNV	BICD1	NM_001003398:c.G486A:p.K162K		D5
chr14	49725005	49725005	C	T	exonic	nonsynonymous SNV	SOS2	NM_006939:c.G674A:p.R225Q		0 D5
chr14	64101302	64101302	C	T	exonic	nonsynonymous SNV	C14orf50	NM_172365:c.C263T:p.S88L		0.09 D5
chr14	64101303	64101303	A	C	exonic	synonymous SNV	C14orf50	NM_172365:c.A264C:p.S88S		D5
chr16	27353256	27353256	C	T	exonic	nonsynonymous SNV	IL21R	NM_021798:c.C137T:p.T46M		0.1 D5
chr16	56589170	56589170	G	A	exonic	synonymous SNV	ZNF319	NM_020807:c.C501T:p.Y167Y		D5
chr16	60412402	60412402	C	T	exonic	nonsynonymous SNV	CDH8	NM_001796:c.G952A:p.G318R		0 D5
chr17	1506699	1506699	G	A	exonic	nonsynonymous SNV	PRPF8	NM_006445:c.C5612T:p.P1871L		0 D5
chr17	34752960	34752960	G	A	exonic;splicing	nonsynonymous SNV	FBXL20	NM_001184906:c.C103T:p.R35W		0 D5
chr18	51221746	51221746	A	C	exonic;splicing	nonsynonymous SNV	TCF4	NM_001083962:c.T306G:p.S102R		0 D5
chr20	43960116	43960116	C	T	exonic	synonymous SNV	CTSA	NM_001167594:c.C1323T:p.F441F		D5
chr20	46758228	46758228	G	A	exonic	stopgain SNV	PREX1	NM_020820:c.C760T:p.Q254X		0.01 D5
chr20	55517112	55517112	T	A	exonic	nonsynonymous SNV	CTCF	NM_080618:c.A1630T:p.T544S		0.39 D5
chr21	31414753	31414753	C	T	exonic	nonsynonymous SNV	TIAM1	NM_003253:c.G4580A:p.R1527Q		1 D5
chr21	33782832	33782832	G	A	exonic	synonymous SNV	DNAJC28	NM_001040192:c.C739T:p.L247L		D5

chrX	18123396	18123396	G	A	exonic	nonsynonymous SN\	BEND2	NM_153346:c.C1121T;p.S374L	0.03	D5	
chrX	49742227	49742227	C	T	exonic	synonymous SNV	CLCN5	NM_000084:c.C2094T;p.I698I		D5	
chrX	1.03E+08	1.03E+08	C	T	exonic;splicing	nonsynonymous SN\	PLP1;PLP1	NM_000533:c.C347T;p.T116M	0.11	D5	
chrX	1.14E+08	1.14E+08	C	T	exonic	nonsynonymous SN\	HTR2C	NM_000868:c.C683T;p.T228M	0.12	D5	
chrX	1.29E+08	1.29E+08	T	G	splicing		UTP14A			D5	
chr1	54443417	54443417	G	T	exonic	nonsynonymous SN\	MRPL37	NM_016491:c.C485T;p.R162L	0.6	D7	
chr1	2.05E+08	2.05E+08	G	A	exonic	synonymous SNV	PIGR	NM_002644:c.C981T;p.A327A		D7	
chr2	27333601	27333601	C	T	exonic	synonymous SNV	SLC30A3	NM_003459:c.G702A;p.A234A	rs114763573	D7	
chr2	49044299	49044299	T	G	exonic	nonsynonymous SN\	FSHR	NM_181446:c.A1087C;p.T363P	0.06	D7	
chr2	1.7E+08	1.7E+08	G	A	exonic	synonymous SNV	LRP2	NM_004525:c.C2247T;p.D749D		D7	
chr2	1.92E+08	1.92E+08	T	G	exonic	nonsynonymous SN\	GLS	NM_014905:c.T1796G;p.V599G	0.2	D7	
chr2	2.02E+08	2.02E+08	C	T	exonic	nonsynonymous SN\	CASP8	NM_033356:c.C575T;p.T192I	0.17	D7	
chr2	2.2E+08	2.2E+08	C	T	exonic	nonsynonymous SN\	TMEM198	NM_001005209:c.C281T;p.A94V	0.38	D7	
chr3	13497860	13497860	C	T	exonic	synonymous SNV	HDAC11	NM_001136041:c.C33T;p.A11A		D7	
chr3	1.02E+08	1.02E+08	G	A	exonic	nonsynonymous SN\	IMP2	NM_016247:c.C2831T;p.T944M	0	D7	
chr4	9591458	9591458	G	A	exonic;splicing	synonymous SNV	SLC2A9	NM_020041:c.C537T;p.G179G		D7	
chr4	73116537	73116537	G	A	exonic	nonsynonymous SN\	NPF22	NM_004885:c.G55A;p.V19I	0	D7	
chr4	1.27E+08	1.27E+08	G	T	exonic	nonsynonymous SN\	FAT4	NM_024582:c.G7097T;p.S2366I	0.15	D7	
chr4	1.4E+08	1.4E+08	A	C	exonic	nonsynonymous SN\	CCRN4L	NM_012118:c.A604C;p.T202P	rs75741507	0.1	D7
chr4	1.55E+08	1.55E+08	G	T	exonic	synonymous SNV	DCHS2	NM_001142552:c.C3543A;p.V1181V		D7	
chr4	1.77E+08	1.77E+08	C	T	exonic	nonsynonymous SN\	GPM6A	NM_201591:c.G50A;p.C17Y	0	D7	
chr5	14663257	14663257	T	C	exonic	nonsynonymous SN\	FAM105A	NM_019018:c.T905C;p.M302T	0.01	D7	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_001127511:c.C637T;p.Q213X	0.01	D7	
chr5	1.4E+08	1.4E+08	C	T	exonic	nonsynonymous SN\	PCDHA2	NM_018905:c.C818T;p.P273L	0.68	D7	
chr5	1.41E+08	1.41E+08	C	T	exonic	nonsynonymous SN\	ARAP3	NM_022481:c.G2840A;p.R947H	0.2	D7	
chr6	27942812	27942812	C	G	exonic	nonsynonymous SN\	HIST1H1B	NM_005322:c.G475C;p.A159P	0.08	D7	
chr6	1.31E+08	1.31E+08	G	A	exonic	synonymous SNV	TMEM200A	NM_052913:c.G1317A;p.P439P		D7	
chr7	86306794	86306794	C	T	exonic	synonymous SNV	GRM3	NM_000840:c.C2028T;p.G676G	rs112184476	D7	
chr7	1.15E+08	1.15E+08	G	T	exonic	nonsynonymous SN\	TFEC	NM_001018058:c.C146A;p.A49D	0.07	D7	
chr8	57085046	57085046	C	T	exonic	synonymous SNV	LYN	NM_001111097:c.C1299T;p.T433T		D7	
chr9	32457877	32457877	C	A	exonic	nonsynonymous SN\	DDX58	NM_014314:c.G2068T;p.D690Y	0.02	D7	
chr9	36390092	36390092	A	C	splicing		RNF38			D7	
chr9	79124339	79124339	G	A	exonic	stopgain SNV	VPS13A	NM_001018037:c.G5228A;p.W1743X	0	D7	
chr9	85805804	85805804	A	G	exonic	nonsynonymous SN\	RM1	NM_024945:c.A83G;p.E28G	0.06	D7	
chr9	1.07E+08	1.07E+08	C	T	exonic	nonsynonymous SN\	ABCA1	NM_005502:c.G667A;p.A223T	0.41	D7	
chr9	1.14E+08	1.14E+08	C	T	exonic	nonsynonymous SN\	SUSD1	NM_022486:c.G1229A;p.C410Y	0	D7	
chr10	73191638	73191638	G	A	exonic	synonymous SNV	C10orf54	NM_022153:c.C234T;p.G78G		D7	
chr10	1.16E+08	1.16E+08	G	T	exonic	nonsynonymous SN\	C10orf81	NM_001193435:c.G269T;p.R90I	0.01	D7	
chr10	1.34E+08	1.34E+08	G	A	exonic	nonsynonymous SN\	LRRC27	NM_001143757:c.G1100A;p.R367K		D7	
chr11	547633	547633	G	A	exonic	nonsynonymous SN\	C11orf35	NM_173573:c.C563T;p.T188M	0	D7	
chr11	57642720	57642720	A	G	exonic	nonsynonymous SN\	OR9I1	NM_001005211:c.T773C;p.M258T	0.07	D7	
chr12	6571467	6571467	A	G	exonic	nonsynonymous SN\	CHD4	NM_001273:c.T2966C;p.I989T	0	D7	
chr12	10230306	10230306	C	T	exonic	nonsynonymous SN\	C12orf59	NM_153022:c.C98T;p.A33V	0.48	D7	
chr12	25289551	25289551	C	T	exonic	nonsynonymous SN\	KRAS	NM_004985:c.G35A;p.G12D	0	D7	
chr12	75276717	75276717	G	A	exonic	synonymous SNV	OSBPL8	NM_001003712:c.C2208T;p.S736S		D7	
chr13	39073261	39073261	G	A	exonic	synonymous SNV	LHFP	NM_005780:c.C93T;p.Y31Y		D7	
chr13	1.1E+08	1.1E+08	G	A	exonic	synonymous SNV	COL4A1	NM_001845:c.C4851T;p.H1617H		D7	
chr14	63755825	63755825	A	T	exonic	nonsynonymous SN\	SYNE2	NM_182910:c.A328T;p.M110L	0.44	D7	
chr14	72495110	72495110	C	T	exonic	synonymous SNV	DCAF4	NM_181341:c.C1152T;p.H384H		D7	
chr14	76312020	76312020	G	A	exonic	nonsynonymous SN\	VASH1	NM_014909:c.G563A;p.R188H	0	D7	
chr15	39411430	39411430	C	T	exonic	nonsynonymous SN\	OIP5	NM_007280:c.G364A;p.G122S	0.07	D7	
chr15	88970169	88970169	G	A	exonic	nonsynonymous SN\	CRTC3	NM_001042574:c.G907A;p.G303R		D7	
chr16	85922433	85922433	C	T	exonic	nonsynonymous SN\	FBXO31	NM_024735:c.G1582A;p.D528N	0.04	D7	

chr17	25871159	25871159	T	A	exonic	nonsynonymous SN\	GOSR1	NM_001007024:c.T427A:p.L143M	0.02	D7	
chr17	38258439	38258439	C	T	exonic	nonsynonymous SN\	AOC3	NM_003734:c.C1553T:p.T518M	0.01	D7	
chr18	46858663	46858663	G	A	exonic	nonsynonymous SN\	SMAD4	NM_005359:c.G1487A:p.R496H	0	D7	
chr19	62340140	62340140	T	A	exonic	nonsynonymous SN\	ZIM3	NM_052882:c.A154T:p.T52S	0.03	D7	
chr20	808458	808458	A	C	exonic	nonsynonymous SN\	ANGPT4	NM_015985:c.T985G:p.W329G	0	D7	
chr20	31351410	31351410	T	C	exonic	nonsynonymous SN\	C20orf114	NM_033197:c.T706C:p.Y236H	0.35	D7	
chr20	34226967	34226967	G	A	exonic	synonymous SNV	EPB41L1	NM_177996:c.G72A:p.S24S		D7	
chr20	57775840	57775840	T	A	exonic	nonsynonymous SN\	PHACTR3	NM_001199505:c.T737A:p.V246D	0.28	D7	
chr22	40113416	40113416	C	T	exonic	synonymous SNV	TEF	NM_001145398:c.C183T:p.G61G		D7	
chrX	37412585	37412585	C	T	exonic	synonymous SNV	LANCL3	NM_198511:c.C1149T:p.T383T		D7	
chrX	63481743	63481743	C	A	exonic	stopgain SNV	MTMR8	NM_017677:c.G772T:p.E258X	0	D7	
chrX	73880485	73880485	T	G	exonic	nonsynonymous SN\	KIAA2022	NM_001008537:c.A632C:p.K211T	0.02	D7	
chrX	80258492	80258492	A	C	exonic	nonsynonymous SN\	HMG5	NM_030763:c.T134G:p.M45R	0.08	D7	
chrX	86777427	86777427	G	A	exonic	nonsynonymous SN\	KLHL4	NM_019117:c.G1921A:p.E641K	0	D7	
chrX	1.23E+08	1.23E+08	C	A	exonic	nonsynonymous SN\	ODZ1	NM_014253:c.G6636T:p.M2212I	0.63	D7	
chrX	1.43E+08	1.43E+08	A	G	exonic	nonsynonymous SN\	SLITRK4	NM_001184749:c.T521C:p.I174T	0.01	D7	
chr1	1.44E+08	1.44E+08	T	C	exonic	nonsynonymous SN\	PDE4DIP	NM_001002811:c.A622G:p.T208A	rs41315684	0.75	D1
chr1	1.65E+08	1.65E+08	C	A	exonic	nonsynonymous SN\	DUSP27	NM_001080426:c.C3371A:p.T1124	rs2281959	0	D1
chr1	1.84E+08	1.84E+08	G	A	exonic	nonsynonymous SN\	HMCN1	NM_031935:c.G16420A:p.D5474N		0	D1
chr2	1.07E+08	1.07E+08	T	C	exonic	nonsynonymous SN\	ST6GAL2	NM_001142351:c.A1021G:p.I341V	rs12615112	0.36	D1
chr2	1.12E+08	1.12E+08	A	G	exonic	nonsynonymous SN\	MERTK	NM_006343:c.A1552G:p.I518V	rs2230515	0.44	D1
chr2	1.52E+08	1.52E+08	A	G	exonic	nonsynonymous SN\	TNFAIP6	NM_007115:c.A431G:p.Q144R	rs1046668	0.85	D1
chr2	1.7E+08	1.7E+08	T	C	exonic	nonsynonymous SN\	LRP2	NM_004525:c.A11152G:p.T3718A		0.2	D1
chr3	57266055	57266055	C	G	exonic	nonsynonymous SN\	APPL1	NM_012096:c.C1183G:p.L395V		0.03	D1
chr3	1.24E+08	1.24E+08	G	A	exonic	synonymous SNV	PDIA5	NM_006810:c.G978A:p.A326A	rs8739		D1
chr5	1.12E+08	1.12E+08	C	T	exonic;splicing	stopgain SNV	APC	NM_000038:c.C646T:p.R216X	rs62619935	0.19	D1
chr5	1.63E+08	1.63E+08	C	T	exonic	nonsynonymous SN\	HMMR	NM_001142557:c.C1193T:p.A398V	rs299295	1	D1
chr5	1.69E+08	1.69E+08	C	T	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.C2245T:p.R749W		0	D1
chr6	34208806	34208806	C	T	exonic	nonsynonymous SN\	GRM4	NM_000841:c.G446A:p.R149H		0.1	D1
chr6	70923330	70923330	C	T	exonic	synonymous SNV	COL19A1	NM_001858:c.C2286T:p.G762G	rs2229799		D1
chr6	1.3E+08	1.3E+08	C	A	exonic	nonsynonymous SN\	LAMA2	NM_000426:c.C682A:p.P228T		0.79	D1
chr7	43777289	43777289	G	A	exonic	nonsynonymous SN\	BLVRA	NM_000712:c.G7A:p.A3T	rs699512	1	D1
chr7	56056319	56056319	T	A	exonic	nonsynonymous SN\	PSPH	NM_004577:c.A81T:p.R27S	rs74445297	0.76	D1
chr9	34239887	34239887	G	A	exonic	synonymous SNV	UBAP1	NM_001171201:c.G1386A:p.T462T			D1
chr11	18710749	18710749	G	A	exonic	nonsynonymous SN\	PTPN5	NM_001039970:c.C1199T:p.T400M		0.23	D1
chr12	1.12E+08	1.12E+08	G	A	exonic	synonymous SNV	TPCN1	NM_017901:c.G1278A:p.T426T	rs34498203		D1
chr13	23931200	23931200	T	A	exonic	synonymous SNV	PARP4	NM_006437:c.A2406T:p.T802T	rs1130941		D1
chr13	39191436	39191436	C	T	exonic	nonsynonymous SN\	COG6	NM_001145079:c.C1348T:p.R450C		0.01	D1
chr15	45851167	45851167	A	C	exonic	synonymous SNV	SEMA6D	NM_020858:c.A2929C:p.R977R			D1
chr15	98927416	98927416	C	A	exonic	synonymous SNV	LINS	NM_001040616:c.G1824T:p.G608C	rs6598356		D1
chr16	52061435	52061435	G	A	exonic	synonymous SNV	RBL2	NM_005611:c.G2082A:p.T694T	rs1131220		D1
chr16	65505631	65505631	G	A	exonic	nonsynonymous SN\	CDH16	NM_001204746:c.C478T:p.H160Y	rs2271023	0.06	D1
chr16	66045043	66045043	G	C	exonic	synonymous SNV	ATP6V0D1	NM_004691:c.C207G:p.V69V			D1
chr17	1935830	1935830	G	T	exonic	nonsynonymous SN\	SMG6	NM_001170957:c.C3380A:p.P1127H		0.02	D1
chr17	7519131	7519131	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G128A:p.R43H	rs28934578	0	D1
chr17	21149006	21149006	C	T	exonic	synonymous SNV	MAP2K3	NM_002756:c.C660T:p.S220S	rs1657695		D1
chr17	69745066	69745066	G	A	exonic	synonymous SNV	TTYH2	NM_032646:c.G453A:p.E151E			D1
chr17	69745067	69745067	C	G	exonic	nonsynonymous SN\	TTYH2	NM_032646:c.C454G:p.Q152E		1	D1
chr18	6228018	6228018	A	C	exonic	stopgain SNV	L3MBTL4	NM_173464:c.T729G:p.Y243X		1	D1
chr18	59459171	59459171	G	C	exonic	nonsynonymous SN\	SERPINB4	NM_002974:c.C386G:p.T129S		0.03	D1
chr19	14922129	14922129	G	A	exonic	nonsynonymous SN\	SLC1A6	NM_005071:c.C1573T:p.R525W		0.01	D1
chr20	2722868	2722868	G	A	exonic	nonsynonymous SN\	CPXM1	NM_001184699:c.C1951T:p.R651C		0	D1
chr20	44117058	44117058	C	T	exonic	nonsynonymous SN\	SLC12A5	NM_001134771:c.C2845T:p.R949W		0.01	D1

chrX	53659521	53659521	C	T	exonic;splicing	nonsynonymous SN\	HUWE1	NM_031407:c.G1958A;p.G653E	0	D1	
chrX	1.1E+08	1.1E+08	G	T	exonic	synonymous SNV	CHRD1	NM_001143983:c.C435A;p.R145R		D1	
chr1	51644240	51644240	A	C	exonic	nonsynonymous SN\	EPS15	NM_001159969:c.T660G;p.S220R	0.04	D19	
chr1	51644241	51644241	C	T	exonic	nonsynonymous SN\	EPS15	NM_001159969:c.G659A;p.S220N	0.1	D19	
chr1	1.51E+08	1.51E+08	G	T	exonic	nonsynonymous SN\	SPRR3	NM_001097589:c.G241T;p.G81C	0.12	D19	
chr2	61569317	61569317	A	C	exonic	nonsynonymous SN\	XPO1	NM_003400:c.T2116G;p.F706V		D19	
chr2	63036241	63036241	C	T	exonic	nonsynonymous SN\	EHBP1	NM_001142614:c.C2402T;p.A801V	0	D19	
chr2	1E+08	1E+08	C	T	exonic	nonsynonymous SN\	NMS	NM_001011717:c.C313T;p.R105W	0	D19	
chr2	1.16E+08	1.16E+08	C	A	exonic	nonsynonymous SN\	DPP10	NM_001004360:c.C1087A;p.Q363K	0.36	D19	
chr2	1.21E+08	1.21E+08	G	A	exonic	nonsynonymous SN\	GLI2	NM_005270:c.G3916A;p.D1306N	rs12711538	1	D19
chr2	2.09E+08	2.09E+08	C	G	exonic	nonsynonymous SN\	IDH1	NM_005896:c.G629C;p.S210T	0.06	D19	
chr2	2.09E+08	2.09E+08	T	C	exonic	nonsynonymous SN\	IDH1	NM_005896:c.A628G;p.S210G	0.01	D19	
chr2	2.13E+08	2.13E+08	G	A	exonic	nonsynonymous SN\	ERBB4	NM_001042599:c.C283T;p.R95C	0.02	D19	
chr3	38714798	38714798	G	A	exonic	synonymous SNV	SCN10A	NM_006514:c.C4917T;p.D1639D		D19	
chr3	71147475	71147475	G	A	exonic	nonsynonymous SN\	FOXP1	NM_032682:c.C889T;p.P297S	0.12	D19	
chr4	1.55E+08	1.55E+08	G	A	exonic	synonymous SNV	TLR2	NM_003264:c.G348A;p.S116S		D19	
chr5	82872935	82872935	A	T	exonic	nonsynonymous SN\	VCAN	NM_001164097:c.A5396T;p.H1799L	0	D19	
chr5	96277196	96277196	A	C	exonic	synonymous SNV	ERAP2	NM_001130140:c.A2706C;p.T902T		D19	
chr5	1.12E+08	1.12E+08	C	T	exonic	stopgain SNV	APC	NM_000038:c.C694T;p.R232X	0.29	D19	
chr5	1.12E+08	1.12E+08	T	A	exonic	stopgain SNV	APC	NM_001127511:c.T3240A;p.C1080X	0	D19	
chr5	1.49E+08	1.49E+08	C	T	exonic	nonsynonymous SN\	ABLIM3	NM_014945:c.C712T;p.R238C	0	D19	
chr5	1.61E+08	1.61E+08	G	A	exonic	nonsynonymous SN\	GABRG2	NM_000816:c.G472A;p.A158T	0.37	D19	
chr5	1.77E+08	1.77E+08	G	C	exonic	nonsynonymous SN\	DOK3	NM_001144876:c.C155G;p.S52C	0.01	D19	
chr7	1.16E+08	1.16E+08	G	T	exonic	synonymous SNV	MET	NM_000245:c.G3285T;p.G1095G		D19	
chr8	69155246	69155246	G	A	exonic	nonsynonymous SN\	PREX2	NM_024870:c.G1657A;p.E553K	0.21	D19	
chr9	36659402	36659402	C	T	exonic;splicing	nonsynonymous SN\	MELK;MELK	NM_014791:c.C1504T;p.R502W	0	D19	
chr10	70376243	70376243	C	T	exonic	nonsynonymous SN\	DDX50	NM_024045:c.C2065T;p.R689W	0	D19	
chr11	65549433	65549433	G	A	exonic	nonsynonymous SN\	CATSPER1	NM_053054:c.C994T;p.R332W	0.03	D19	
chr11	65856427	65856427	C	T	exonic	nonsynonymous SN\	RIN1	NM_004292:c.G2248A;p.E750K	0	D19	
chr11	77405940	77405940	C	T	exonic	nonsynonymous SN\	KCTD14	NM_023930:c.G115A;p.V39I	0.7	D19	
chr12	1.29E+08	1.29E+08	C	T	exonic	nonsynonymous SN\	RIMBP2	NM_015347:c.G1000A;p.V334I	0.44	D19	
chr13	45628644	45628644	G	T	exonic	synonymous SNV	LCP1	NM_002298:c.C421A;p.R141R		D19	
chr14	23594320	23594320	G	A	exonic	nonsynonymous SN\	LRRCL16B	NM_138360:c.G566A;p.R189Q	0	D19	
chr15	29115046	29115046	G	A	exonic	stopgain SNV	TRPM1	NM_002420:c.C2629T;p.R877X	0	D19	
chr17	64436919	64436919	C	T	exonic	nonsynonymous SN\	ABCA8	NM_007168:c.G991A;p.G331S	rs4147979	0.63	D19
chr18	8366165	8366165	C	T	exonic	nonsynonymous SN\	PTPRM	NM_002845:c.C3254T;p.P1085L	0.01	D19	
chr19	8102520	8102520	A	T	exonic	synonymous SNV	FBN3	NM_032447:c.T1908A;p.T636T		D19	
chr19	8933975	8933975	G	A	exonic	nonsynonymous SN\	MUC16	NM_024690:c.C14471T;p.T4824M	rs17000816	D19	
chr19	9826347	9826347	G	A	exonic	nonsynonymous SN\	OLFM2	NM_058164:c.C880T;p.R294C	0.02	D19	
chr19	15156231	15156231	C	T	exonic	nonsynonymous SN\	NOTCH3	NM_000435:c.G2441A;p.C814Y	0	D19	
chr21	45131136	45131136	G	A	exonic	synonymous SNV	ITGB2	NM_000211:c.C2190T;p.S730S		D19	
chrX	15249770	15249770	G	A	exonic	stopgain SNV	PIGA	NM_020473:c.C532T;p.R178X	0.02	D19	
chrX	67858121	67858121	G	A	exonic	stopgain SNV	STARD8	NM_001142504:c.G2027A;p.W676X	0.05	D19	
chrX	69511782	69511782	G	T	exonic	nonsynonymous SN\	KIF4A	NM_012310:c.G1782T;p.L594F	0	D19	
chrX	1.14E+08	1.14E+08	G	A	exonic	synonymous SNV	HTR2C	NM_000868:c.G501A;p.S167S		D19	
chrX	1.31E+08	1.31E+08	C	T	exonic	nonsynonymous SN\	RAP2C	NM_021183:c.G485A;p.R162K	0.12	D19	
chr1	33765409	33765409	C	T	exonic	nonsynonymous SN\	CSMD2	NM_052896:c.G9776A;p.R3259Q	0.5	D21	
chr2	39087119	39087119	T	C	exonic	nonsynonymous SN\	SOS1	NM_005633:c.A2729G;p.D910G	0.12	D21	
chr3	62493728	62493728	C	T	exonic	nonsynonymous SN\	CADPS	NM_003716:c.G2149A;p.A717T	0	D21	
chr3	1.53E+08	1.53E+08	G	T	exonic	nonsynonymous SN\	MED12L	NM_053002:c.G5513T;p.R1838I		D21	
chr3	1.54E+08	1.54E+08	G	A	exonic	nonsynonymous SN\	MBNL1	NM_207293:c.G251A;p.R84H	0.02	D21	
chr3	1.86E+08	1.86E+08	G	A	exonic	nonsynonymous SN\	EIF4G1	NM_004953:c.G2858A;p.R953Q	0	D21	
chr5	13845128	13845128	G	A	exonic	nonsynonymous SN\	DNAH5	NM_001369:c.C8423T;p.T2808I	0.34	D21	

chr5	14551296	14551296	A	G	exonic	nonsynonymous SN\	TRIO	NM_007118:c.A8146G:p.I2716V	0.36	D21	
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G3808T:p.G1270X	0.01	D21	
chr5	1.46E+08	1.46E+08	T	C	exonic	nonsynonymous SN\	LARS	NM_020117:c.A1679G:p.N560S		D21	
chr6	26292202	26292202	T	C	exonic	nonsynonymous SN\	HIST1H2BE	NM_003523:c.T200C:p.V67A	0	D21	
chr6	1.3E+08	1.3E+08	G	T	exonic	stopgain SNV	L3MBTL3	NM_001007102:c.G1174T:p.E392X	0.02	D21	
chr7	2921458	2921458	C	T	exonic	synonymous SNV	CARD11	NM_032415:c.G2778A:p.P926P		D21	
chr8	91034934	91034934	T	C	exonic	nonsynonymous SN\	NBN	NM_002485:c.A1559G:p.N520S	0.78	D21	
chr9	1.23E+08	1.23E+08	C	T	exonic;splicing	synonymous SNV	C5;C5	NM_001735:c.G4398A:p.S1466S		D21	
chr10	18827403	18827403	T	C	exonic	synonymous SNV	CACNB2	NM_000724:c.T282C:p.H94H		D21	
chr10	96731083	96731083	G	T	exonic	nonsynonymous SN\	CYP2C9	NM_000771:c.G1115T:p.C372F	0.02	D21	
chr11	18269894	18269894	T	A	exonic	nonsynonymous SN\	HPS5	NM_007216:c.A1769T:p.K590I	0.02	D21	
chr11	55320299	55320299	G	A	exonic	nonsynonymous SN\	OR5D14	NM_001004735:c.G692A:p.R231H	0.15	D21	
chr12	3562554	3562554	C	T	exonic	nonsynonymous SN\	PRMT8	NM_019854:c.C898T:p.R300C	0	D21	
chr12	25269914	25269914	T	A	exonic	nonsynonymous SN\	KRAS	NM_004985:c.A351T:p.K117N	0	D21	
chr12	88268504	88268504	G	T	exonic	nonsynonymous SN\	DUSP6	NM_001946:c.C830A:p.S277Y	0.01	D21	
chr13	35807341	35807341	C	T	exonic	synonymous SNV	SPG20	NM_001142294:c.G627A:p.P209P		D21	
chr13	37218256	37218256	A	G	exonic	nonsynonymous SN\	TRPC4	NM_001135955:c.T715C:p.S239P	0.02	D21	
chr13	59138792	59138792	A	C	exonic	nonsynonymous SN\	DIAPH3	NM_001042517:c.T3509G:p.L1170R		D21	
chr13	1.08E+08	1.08E+08	G	A	exonic	nonsynonymous SN\	MYO16	NM_001198950:c.G1751A:p.C584Y	0	D21	
chr14	61636926	61636926	G	A	exonic	synonymous SNV	SYT16	NM_031914:c.G1686A:p.T562T		D21	
chr15	20554344	20554344	C	T	exonic	nonsynonymous SN\	CYFIP1	NM_001033028:c.C2332T:p.R778C	0	D21	
chr15	51812524	51812524	C	T	exonic	nonsynonymous SN\	WDR72	NM_182758:c.G115A:p.G39S	0	D21	
chr16	10908533	10908533	C	T	exonic	synonymous SNV	CITA	NM_000246:c.C1683T:p.D561D	rs76686583	D21	
chr17	1526087	1526087	C	T	exonic	nonsynonymous SN\	PRPF8	NM_006445:c.G2564A:p.R855Q	0	D21	
chr17	24211641	24211641	A	T	exonic	nonsynonymous SN\	ERAL1	NM_005702:c.A1258T:p.M420L	0.55	D21	
chr17	53975262	53975262	G	A	exonic	nonsynonymous SN\	C17orf47	NM_001038704:c.C1285T:p.P429S	0.36	D21	
chr19	45520104	45520104	C	T	exonic	nonsynonymous SN\	C19orf47	NM_178830:c.G593A:p.R198H	0	D21	
chr19	48463913	48463913	C	A	exonic	nonsynonymous SN\	PSG9	NM_002784:c.G293T:p.R98I	0	D21	
chr19	62741055	62741055	G	A	exonic	nonsynonymous SN\	ZNF549	NM_153263:c.G832A:p.V278I	rs61735033	0.99	D21
chrX	41264778	41264778	G	A	exonic	nonsynonymous SN\	CASK	NM_001126055:c.C2533T:p.R845C	0	D21	
chr1	4732397	4732397	C	T	exonic	nonsynonymous SN\	AJAP1	NM_001042478:c.C1115T:p.T372M	0.33	D9	
chr1	35717250	35717250	T	G	exonic	nonsynonymous SN\	KIAA0319L	NM_024874:c.A817C:p.T273P	0.11	D9	
chr1	2.14E+08	2.14E+08	G	A	exonic	nonsynonymous SN\	USH2A	NM_206933:c.C11840T:p.S3947F	0.02	D9	
chr2	15437338	15437338	G	C	exonic	nonsynonymous SN\	NBAS	NM_015909:c.C3429G:p.H1143Q	0.65	D9	
chr3	9909830	9909830	G	A	exonic	nonsynonymous SN\	JAGN1	NM_032492:c.G321A:p.M107I	0.11	D9	
chr3	1.6E+08	1.6E+08	G	A	exonic	synonymous SNV	GFM1	NM_024996:c.G1668A:p.L556L		D9	
chr3	1.75E+08	1.75E+08	T	G	exonic	synonymous SNV	NLGN1	NM_014932:c.T561G:p.G187G		D9	
chr4	38375241	38375241	C	T	exonic	nonsynonymous SN\	KLF3	NM_016531:c.C1000T:p.H334Y	0	D9	
chr4	77850451	77850451	C	T	exonic	nonsynonymous SN\	SHROOM3	NM_020859:c.C442T:p.R148W	0	D9	
chr4	85967124	85967124	C	T	exonic	nonsynonymous SN\	WDFY3	NM_014991:c.G991A:p.A331T	0.01	D9	
chr4	1.3E+08	1.3E+08	C	T	splicing		SCLT1			D9	
chr4	1.42E+08	1.42E+08	G	A	exonic	synonymous SNV	RNF150	NM_020724:c.C1074T:p.S358S		D9	
chr4	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\	DDX60	NM_017631:c.C3947T:p.A1316V	0.04	D9	
chr5	22011125	22011125	C	A	exonic	stopgain SNV	CDH12	NM_004061:c.G358T:p.E120X	0	D9	
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_000038:c.G673T:p.E225X	0.01	D9	
chr5	1.69E+08	1.69E+08	G	A	exonic	nonsynonymous SN\	DOCK2	NM_004946:c.G338A:p.R113H	0.17	D9	
chr7	1.23E+08	1.23E+08	T	C	exonic	synonymous SNV	HYAL4	NM_012269:c.T783C:p.S261S		D9	
chr8	15525025	15525025	G	T	exonic	nonsynonymous SN\	TUSC3	NM_006765:c.G204T:p.M68I	0.11	D9	
chr8	97961357	97961357	C	A	exonic	nonsynonymous SN\	PGCP	NM_016134:c.C797A:p.T266N	0.08	D9	
chr9	19540247	19540247	T	G	exonic	nonsynonymous SN\	SLC24A2	NM_001193288:c.A1316C:p.D439A	0.13	D9	
chr12	68475347	68475347	C	T	exonic	stopgain SNV	RAB3IP	NM_001024647:c.C226T:p.Q76X	1	D9	
chr13	96841628	96841628	T	A	exonic	stopgain SNV	MBNL2	NM_207304:c.T1010A:p.L337X		D9	
chr13	1.07E+08	1.07E+08	C	T	exonic	nonsynonymous SN\	FAM155A	NM_001080396:c.G1303A:p.A435T	0	D9	

chr15	43045678	43045678	A	T	exonic	nonsynonymous SN\	C15orf43	NM_152448:c.A379T:p.T127S	0.76	D9	
chr15	83171793	83171793	G	A	exonic	nonsynonymous SN\	ALPK3	NM_020778:c.G863A:p.R288Q	0.01	D9	
chr16	17129111	17129111	T	A	exonic	synonymous SNV	XYLT1	NM_022166:c.A2136T:p.L712L		D9	
chr16	52073130	52073130	C	T	exonic	nonsynonymous SN\	RBL2	NM_005611:c.C3131T:p.S1044F	0	D9	
chr16	60409030	60409030	T	A	exonic	synonymous SNV	CDH8	NM_001796:c.A1131T:p.T377T		D9	
chr16	73495386	73495386	T	C	exonic	nonsynonymous SN\	WDR59	NM_030581:c.A1826G:p.K609R	0.75	D9	
chr17	7517845	7517845	C	T	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G422A:p.R141H	rs28934576	0.01	D9
chr17	30705071	30705071	A	T	exonic	nonsynonymous SN\	SLFN11	NM_152270:c.T1319A:p.I440N		0	D9
chr17	52417750	52417750	G	A	exonic	nonsynonymous SN\	SCPEP1	NM_021626:c.G238A:p.G80S		0.11	D9
chr18	39108313	39108313	C	G	exonic	nonsynonymous SN\	SYT4	NM_020783:c.G79C:p.V27L		0.11	D9
chr19	17862749	17862749	G	A	exonic	nonsynonymous SN\	SLC5A5	NM_000453:c.G1706A:p.R569Q		0.33	D9
chr19	18817802	18817802	G	A	exonic	nonsynonymous SN\	UPF1	NM_002911:c.G245A:p.G82D		0.33	D9
chr19	48851482	48851482	T	G	exonic	nonsynonymous SN\	PLAUR	NM_001005376:c.A556C:p.T186P		0	D9
chr19	61719556	61719556	A	G	exonic	nonsynonymous SN\	ZNF471	NM_020813:c.A134G:p.E45G		0.01	D9
chr20	33705638	33705638	G	A	exonic	stopgain SNV	RBM12	NM_001198840:c.C1021T:p.R341X		1	D9
chr20	44073654	44073654	A	C	exonic	nonsynonymous SN\	MMP9	NM_004994:c.A858C:p.K286N		0.27	D9
chr20	44749099	44749099	G	A	exonic	synonymous SNV	TP53RK	NM_033550:c.C462T:p.H154H			D9
chr21	44370419	44370419	G	A	exonic	nonsynonymous SN\	PWP2	NM_005049:c.G2065A:p.V689I		0.04	D9
chr22	20652019	20652019	C	T	exonic	nonsynonymous SN\	TOP3B	NM_003935:c.G808A:p.A270T		0.07	D9
chrX	26067033	26067033	G	A	exonic	nonsynonymous SN\	MAGEB18	NM_173699:c.G10A:p.G4S		0.15	D9
chrX	50106516	50106516	C	T	exonic	synonymous SNV	CCNB3	NM_033670:c.C468T:p.I156I			D9
chr1	19296317	19296317	G	A	exonic	synonymous SNV	UBR4	NM_020765:c.C13347T:p.G4449G			D20
chr1	35619925	35619925	G	T	exonic	synonymous SNV	ZMYM4	NM_005095:c.G1548T:p.S516S			D20
chr1	70276628	70276628	C	T	exonic	nonsynonymous SN\	LRRC7	NM_020794:c.C2419T:p.R807C		0	D20
chr1	1.09E+08	1.09E+08	C	T	exonic	nonsynonymous SN\	WDR47	NM_001142550:c.G2477A:p.G826D		0	D20
chr1	1.57E+08	1.57E+08	C	T	exonic	nonsynonymous SN\	OR6Y1	NM_001005189:c.G754A:p.V252I	rs41273491	0.18	D20
chr2	61129170	61129170	C	T	exonic	nonsynonymous SN\	PEX13	NM_002618:c.C973T:p.L325F		0.12	D20
chr3	58495267	58495267	C	T	exonic	synonymous SNV	ACO2	NM_003500:c.G183A:p.P61P			D20
chr3	1.53E+08	1.53E+08	G	A	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.C5056T:p.P1686S		0.08	D20
chr3	1.53E+08	1.53E+08	C	T	exonic	nonsynonymous SN\	IGSF10	NM_178822:c.G3052A:p.G1018R		0	D20
chr4	25017941	25017941	G	A	exonic	nonsynonymous SN\	ANAPC4	NM_013367:c.G1399A:p.G467R		0.09	D20
chr5	1.12E+08	1.12E+08	G	T	exonic	stopgain SNV	APC	NM_001127511:c.G4135T:p.E1379X		0.16	D20
chr5	1.41E+08	1.41E+08	G	A	exonic	synonymous SNV	PCDHGA7	NM_018920:c.G1677A:p.P559P			D20
chr6	1.66E+08	1.66E+08	C	T	exonic	synonymous SNV	C6orf118	NM_144980:c.G96A:p.T32T			D20
chr7	98983900	98983900	C	T	exonic	nonsynonymous SN\	FAM200A	NM_145111:c.G67A:p.V23M			D20
chr8	14139490	14139490	T	A	exonic	nonsynonymous SN\	SGCZ	NM_139167:c.A406T:p.T136S		0.13	D20
chr8	1.17E+08	1.17E+08	C	T	exonic	nonsynonymous SN\	TRPS1	NM_014112:c.G2545A:p.A849T		0	D20
chr9	1.03E+08	1.03E+08	C	T	exonic	nonsynonymous SN\	GRIN3A	NM_133445:c.G2590A:p.V864M		0.01	D20
chr11	55814749	55814749	G	A	exonic	synonymous SNV	OR8H1	NM_001005199:c.C366T:p.Y122Y			D20
chr11	89536247	89536247	T	G	splicing		NAALAD2				D20
chr12	51230103	51230103	G	A	exonic	synonymous SNV	KRT71	NM_033448:c.C633T:p.D211D	rs113716134		D20
chr12	53253421	53253421	C	A	exonic	synonymous SNV	PDE1B	NM_001165975:c.C792A:p.I264I			D20
chr12	1.1E+08	1.1E+08	G	A	exonic	synonymous SNV	CUX2	NM_015267:c.G1101A:p.T367T			D20
chr12	1.23E+08	1.23E+08	C	T	exonic	nonsynonymous SN\	DNAH10	NM_207437:c.C1055T:p.T352M		0.06	D20
chr12	1.29E+08	1.29E+08	C	T	exonic	synonymous SNV	FZD10	NM_007197:c.C1176T:p.N392N			D20
chr15	38653039	38653039	C	T	exonic	nonsynonymous SN\	RPUSD2	NM_152260:c.C925T:p.R309W		0	D20
chr15	42679988	42679988	C	A	exonic	stopgain SNV	SPG11	NM_001160227:c.G3655T:p.E1219X		0.19	D20
chr16	21655178	21655178	C	A	exonic	nonsynonymous SN\	OTOA	NM_170664:c.C1425A:p.S475R		0.28	D20
chr16	22268243	22268243	G	T	exonic	nonsynonymous SN\	CDR2	NM_001802:c.C364A:p.L122M		0	D20
chr17	7517863	7517863	C	G	exonic	nonsynonymous SN\	TP53	NM_001126115:c.G404C:p.R135P		0	D20
chr18	59736199	59736199	G	A	exonic	synonymous SNV	SERPINB10	NM_005024:c.G255A:p.S85S			D20
chr19	7883228	7883228	C	T	exonic	nonsynonymous SN\	MAP2K7	NM_145185:c.C1172T:p.A391V			D20
chr19	37829276	37829276	A	G	exonic	nonsynonymous SN\	ANKRD27	NM_032139:c.T299C:p.F100S		0	D20

chr20	54257600	54257600	C	T	exonic	synonymous SNV	MC3R	NM_019888:c.C294T:p.I98I		D20
chr21	44043952	44043952	T	C	exonic	synonymous SNV	RRP1	NM_003683:c.T885C:p.V295V	rs4566449	D20
chrX	12748771	12748771	C	T	exonic	synonymous SNV	PRPS2	NM_001039091:c.C801T:p.A267A		D20
chrX	1.54E+08	1.54E+08	C	A	exonic	nonsynonymous SNV	F8	NM_000132:c.G3469T:p.V1157L	0.05	D20
