

Supplemental Online Content

Smalley KSM, Teer JK, Chen YA, et al. A mutational survey of acral nevi. *JAMA Dermatol*. Published online May 12, 2021. doi:10.1001/jamadermatol.2021.0793

eFigure 1. Correlation between nevus cellularity and allelic frequency for BRAF and NRAS mutations

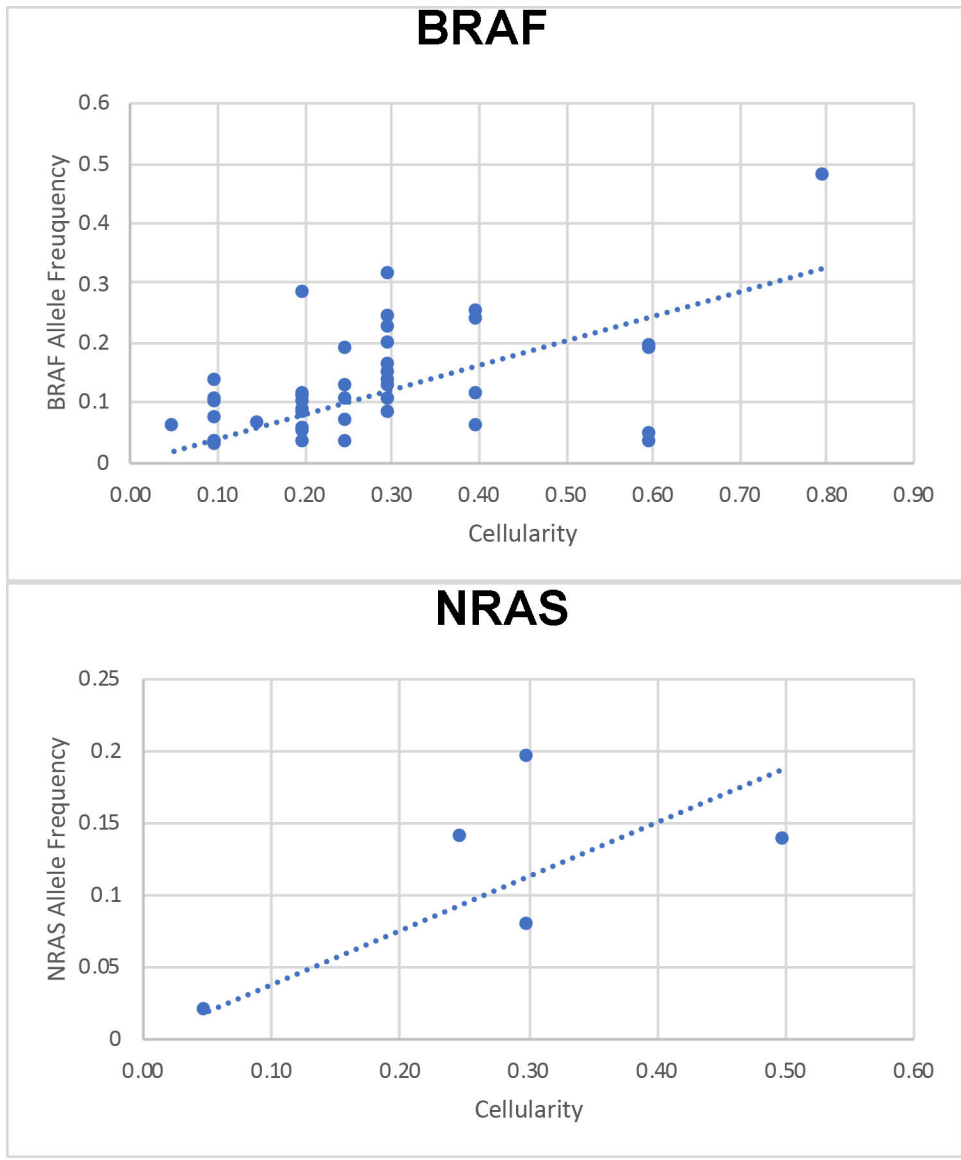
eFigure 2. Staining of NRAS mutant acral nevi with BRAF-V600E specific antibody

eTable 1. List of genes in the NGS panel

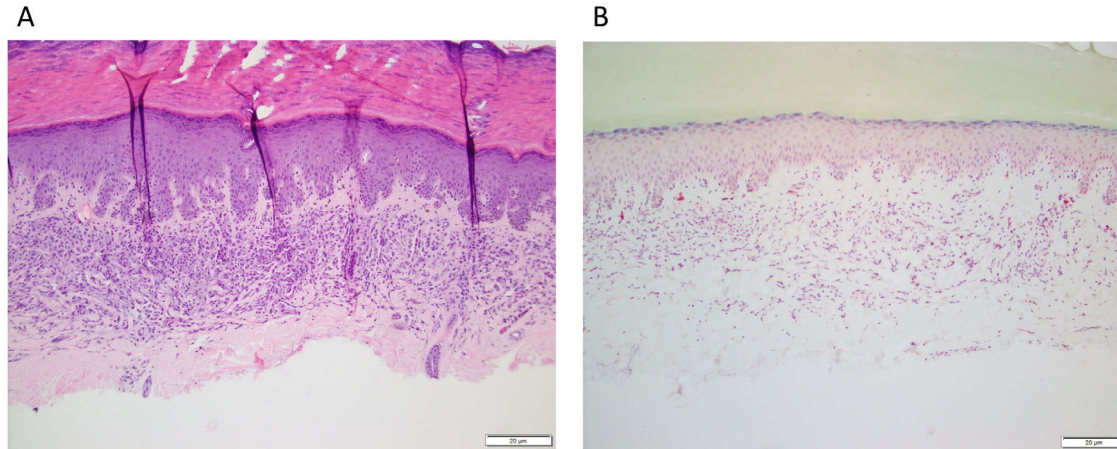
eTable 2. List of identified mutations

eTable 3. Copy number alterations

This supplemental material has been provided by the authors to give readers additional information about their work.



eFigure 1. Correlation between nevus cellularity and allelic frequency for BRAF and NRAS mutations



eFigure 2. A. Biopsy specimen of nevus with NRAS Q61R mutation confirmed by NGS, demonstrating band-like dermal component suggesting congenital origin (H&E, 10x). **B.** BRAF V600E immunohistochemical stain of the lesion is negative within melanocytes (VE1 antibody, 10x). Scale bar = 20 μ M.

eTable 1. List of genes included in the NGS sequencing panel. The list of 151 genes included in the Agilent SureSelect XT ClearSeq Comprehensive Cancer Panel

ABCB1	CSF1R	FGFR4	KRAS	PHF6	SLC22A1
ABCC2	CTNNB1	FLT1	LAMA2	PIK3CA	SLC22A2
ABL1	CYP19A1	FLT3	LCK	PIK3R1	SLC31A1
ABL2	CYP2A6	FLT4	LTK	PSMB1	SLC34A2
AKT1	CYP2B6	FSTL5	MAP2K1	PSMB2	SLC45A3
AKT2	CYP2C19	GNA11	MAP2K2	PSMB5	SLCO1B1
AKT3	CYP2C9	GNAQ	MAP2K4	PSMD1	SMAD4
ALK	CYP2D6	GNAS	MAP3K1	PSMD2	SMARCA4
APC	DDR1	GSTP1	MAPK1	PTCH1	SMARCB1
ASXL1	DDR2	H3F3A	MED13	PTEN	SMO
ATM	DDX3X	HNF1A	MET	PTPN11	SNCAIP
ATRX	DNMT3A	HRAS	MLH1	RAF1	SOS1
BRAF	DPYD	IDH1	MLL	RARA	SPRED1
BRCA1	EGFR	IDH2	MPL	RARB	SRC
BRCA2	ERBB2	IKZF1	MST1R	RARG	STK11
CBL	ERBB3	IL2RA	MTOR	RB1	SUFU
CDA	ERBB4	IL2RB	MYC	RET	TAS2R38
CDH1	ERG	IL2RG	MYD88	ROS1	TET2
CDKN2A	ESR2	INPP4B	NELL2	RPS6KB1	TP53
CDKN2B	ESR1	JAK1	NF1	RUNX1	TRRAP
CEBPA	EZH2	JAK2	NOTCH1	RXRA	TYK2
CHD7	FBXW7	JAK3	NPM1	RXRB	UGT1A1
CHIC2	FGFR1	KDM6A	NRAS	RXRG	VHL
CREBBP	FGFR2	KDR	PDGFRA	SHH	WT1
CRLF2	FGFR3	KIT	PDGFRB	SHOC2	YES1
					ZMYM3

eTable 2. Somatic Mutations Identified. List of mutations observed in this study with an automated analysis. Genome coordinates are based on hs37d5. The format of this file is the TCGA style Mutation Annotation Format (MAF).

Hugo_Symbol	Chromosome	Start_Position	End_Position	Variant_Type	Reference_Allele	Tumor_Seq_Allele1	Tumor_Seq_Allele2	dbSNP_RS	Tumor_Sample_Barcode	HGVSc	HGVSp_Short	Transcript_ID	Exon_Number	t_depth	t_ref_count	t_alt_count	PolyPhen	AA_MAF	EA_MAF	COSMIC
Unknwn	1	11182261	11182261	INS	G	G	GT	novel	19	0	0	0	0	35	19	6	NA	0	0	0
Unknwn	1	11182261	11182261	INS	G	G	GT	novel	29	0	0	0	0	53	33	7	NA	0	0	0
Unknwn	1	11259567	11259567	SNP	C	C	T	ss453880249	10	0	0	0	0	250	165	85	NA	0	0.000698	0
Unknwn	1	11293367	11293368	DEL	TA	TA	T	novel	20	0	0	0	0	65	49	10	NA	0	0	0
Unknwn	1	11293367	11293368	DEL	TA	TA	T	novel	29	0	0	0	0	54	41	10	NA	0	0	0
Unknwn	1	11319566	11319566	SNP	T	T	C	rs17229137	10	0	0	0	0	245	217	28	NA	0	0	0
Unknwn	1	20915535	20915535	SNP	G	G	A	rs602946	20	0	0	0	0	101	89	11	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	1	0	0	0	0	246	118	88	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	5	0	0	0	0	237	92	89	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	13	0	0	0	0	220	112	22	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	14	0	0	0	0	248	98	81	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	34	0	0	0	0	92	30	24	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	21	0	0	0	0	199	67	67	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	22	0	0	0	0	239	89	80	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	23	0	0	0	0	228	74	63	NA	0	0	0
Unknwn	1	20931601	20931601	INS	T	T	TATTC	novel	48	0	0	0	0	146	52	35	NA	0	0	0
Unknwn	1	36070909	36070909	SNP	A	A	G	rs58470737	20	0	0	0	0	128	81	47	NA	0.001589	0.009535	0
Unknwn	1	43815061	43815061	SNP	G	G	C	novel	32	0	0	0	0	250	183	67	NA	0	0	0
Unknwn	1	43815061	43815061	SNP	G	G	C	novel	33	0	0	0	0	250	193	57	NA	0	0	0
Unknwn	1	43815061	43815061	SNP	G	G	C	novel	34	0	0	0	0	247	206	40	NA	0	0	0
Unknwn	1	43815061	43815061	SNP	G	G	C	novel	35	0	0	0	0	250	190	60	NA	0	0	0
Unknwn	1	43815061	43815061	SNP	G	G	C	novel	36	0	0	0	0	250	164	85	NA	0	0	0
Unknwn	1	43815061	43815061	SNP	G	G	C	novel	37	0	0	0	0	248	205	41	NA	0	0	0

Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	40	0	0	0	0	250	211	39	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	41	0	0	0	0	249	152	97	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	42	0	0	0	0	250	169	81	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	16	0	0	0	0	249	198	50	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	17	0	0	0	0	250	203	47	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	18	0	0	0	0	250	198	51	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	21	0	0	0	0	250	182	67	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	22	0	0	0	0	249	160	89	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	23	0	0	0	0	250	161	88	NA	0	0	0
Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	24	0	0	0	0	250	190	60	NA	0	0	0
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Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	28	0	0	0	0	198	169	29	NA	0	0	0
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Unkno wn	1	43815 061	43815 061	SNP	G	G	C	novel	31	0	0	0	0	179	160	19	NA	0	0	0
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Unkno wn	1	98187 048	98187 048	SNP	C	C	T	rs562 76561	40	0	0	0	0	190	118	72	NA	0.00 408 5	0.02 198 2	0
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Unkno wn	1	98349 390	98349 390	INS	C	CAA	CA	novel	35	0	0	0	0	113	0	0	NA	0	0	0
Unkno wn	1	98349 390	98349 390	INS	C	CAA	CA	novel	25	0	0	0	0	159	0	0	NA	0	0	0
Unkno wn	1	98349 390	98349 390	INS	C	CAA	CA	novel	26	0	0	0	0	158	0	0	NA	0	0	0
Unkno wn	1	98349 390	98349 390	INS	C	CAA	CA	novel	28	0	0	0	0	91	0	0	NA	0	0	0
NRAS	1	11525 6529	11525 6529	SNP	T	T	C	rs115 54290	41	c.A182G	p.Q61R	NM_00 2524	exon3	250	219	31	benign	0	0	970
NRAS	1	11525 6529	11525 6529	SNP	T	T	C	rs115 54290	17	c.A182G	p.Q61R	NM_00 2524	exon3	195	167	28	benign	0	0	970
NRAS	1	11525 6529	11525 6529	SNP	T	T	C	rs115 54290	23	c.A182G	p.Q61R	NM_00 2524	exon3	250	196	54	benign	0	0	970
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Unkno wn	1	16274 9855	16274 9855	INS	T	T	TTC	novel	14	0	0	0	0	250	114	99	NA	0.00 281 3	0.00 872 3	0

Unkno wn	1	16274 9855	16274 9855	INS	T	T	TTC	novel	28	0	0	0	0	114	61	38	NA	0.00 281 3	0.00 872 3	0
Unkno wn	1	16537 8976	16537 8976	SNP	C	C	T	novel	16	0	0	0	0	231	140	91	NA	0	0	0
ABL2	1	17907 7953	17907 7953	SNP	A	A	G	novel	13	c.T2449C	p.S817P	NM_00 7314	exon12	250	227	23	probably_ damaging	0	0	0
Unkno wn	1	17908 6419	17908 6420	INS	TA	TA	TAA	novel	6	0	0	0	0	250	118	88	NA	0.02 910 8	0.08 807 9	0
Unkno wn	1	17908 6419	17908 6420	INS	TA	TA	TAA	novel	35	0	0	0	0	221	92	87	NA	0.02 910 8	0.08 807 9	0
Unkno wn	1	17908 6419	17908 6420	INS	TA	TA	TAA	novel	38	0	0	0	0	93	37	31	NA	0.02 910 8	0.08 807 9	0
Unkno wn	1	17908 6419	17908 6420	INS	TA	TA	TAA	novel	42	0	0	0	0	225	104	83	NA	0.02 910 8	0.08 807 9	0
Unkno wn	1	17908 6419	17908 6420	INS	TA	TA	TAA	novel	21	0	0	0	0	167	74	63	NA	0.02 910 8	0.08 807 9	0
Unkno wn	1	17908 6419	17908 6420	DEL	TA	TA	T	novel	49	0	0	0	0	250	103	113	NA	0.07 018 8	0.00 327 1	0
Unkno wn	1	20563 3867	20563 3867	SNP	C	C	T	rs147 34439 7	29	0	0	0	0	76	66	9	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CA	novel	8	0	0	0	0	108	0	1	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CA	novel	39	0	0	0	0	48	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA AA	novel	41	0	0	0	0	53	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	C	novel	18	0	0	0	0	32	0	3	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA AA	novel	22	0	0	0	0	68	0	3	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAA	novel	7	0	0	0	0	95	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAA	CA	novel	8	0	0	0	0	108	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CA	novel	9	0	0	0	0	111	0	0	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAA AA	novel	38	0	0	0	0	50	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAA	CA	novel	39	0	0	0	0	48	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CA	novel	40	0	0	0	0	49	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAA AA	novel	42	0	0	0	0	58	0	0	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAA AA	novel	25	0	0	0	0	39	0	0	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAA AA	novel	47	0	0	0	0	75	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CA	novel	48	0	0	0	0	89	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAA AA	CAAAAAAA	novel	1	0	0	0	0	59	0	0	NA	0	0	0
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Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAA	novel	5	0	0	0	0	100	0	3	NA	0	0	0

Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAAAA	novel	7	0	0	0	0	95	0	3	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA	novel	34	0	0	0	0	37	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA	novel	37	0	0	0	0	37	0	4	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA	novel	28	0	0	0	0	43	0	2	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA	novel	44	0	0	0	0	137	0	2	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA	novel	49	0	0	0	0	131	0	3	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CAAAAAAAAA AA	novel	11	0	0	0	0	33	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA AA	novel	14	0	0	0	0	65	0	5	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CAAAAAAAAA AA	novel	15	0	0	0	0	89	0	2	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CAAAAAAAAA AA	novel	33	0	0	0	0	41	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAAAA AA	novel	38	0	0	0	0	50	0	2	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAA	CAAAAAAAAA AA	novel	41	0	0	0	0	53	0	6	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAAAA AA	novel	42	0	0	0	0	58	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAA	CAAAAAAAAA AA	novel	22	0	0	0	0	68	0	10	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAAAA AA	novel	25	0	0	0	0	39	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CAAAAAAAAA AA	novel	26	0	0	0	0	45	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	C	CAAAAAAAAA AA	novel	27	0	0	0	0	46	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA AA	novel	29	0	0	0	0	32	0	0	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAA	CAAAAAAAAA AA	novel	30	0	0	0	0	34	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CA	CAAAAAAAAA AA	novel	47	0	0	0	0	75	0	1	NA	0	0	0
Unkno wn	1	20564 3730	20564 3741	DEL	CAAAAAAAAA AA	CAAAAAAAAA AA	CAAAAAAAAA AA	novel	50	0	0	0	0	62	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	2	0	0	0	0	71	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	3	0	0	0	0	107	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	4	0	0	0	0	107	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	5	0	0	0	0	113	0	4	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	7	0	0	0	0	45	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	8	0	0	0	0	68	0	6	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	9	0	0	0	0	66	0	3	NA	0	0	0

Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	10	0	0	0	0	51	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	11	0	0	0	0	10	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	12	0	0	0	0	70	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	13	0	0	0	0	49	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	32	0	0	0	0	58	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	36	0	0	0	0	56	0	2	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	37	0	0	0	0	47	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	38	0	0	0	0	84	0	2	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	39	0	0	0	0	54	0	3	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	40	0	0	0	0	43	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	16	0	0	0	0	54	0	6	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	17	0	0	0	0	49	0	3	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	18	0	0	0	0	63	0	3	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	19	0	0	0	0	18	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	21	0	0	0	0	39	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	22	0	0	0	0	48	0	2	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	23	0	0	0	0	36	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	24	0	0	0	0	45	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	25	0	0	0	0	44	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	26	0	0	0	0	50	0	2	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	29	0	0	0	0	22	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	30	0	0	0	0	21	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	31	0	0	0	0	34	0	1	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	43	0	0	0	0	94	0	3	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	44	0	0	0	0	60	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	45	0	0	0	0	84	0	3	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	AACAC	AAC	novel	46	0	0	0	0	69	0	0	NA	0	0	0
Unkno wn	1	20564 8813	20564 8817	DEL	AACAC	A	AAC	novel	48	0	0	0	0	67	0	1	NA	0	0	0

Unkno wn	1	24373 6210	24373 6212	DEL	CTT	C	CT	novel	6	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	1	24373 6210	24373 6212	DEL	CTT	C	CT	novel	38	0	0	0	0	80	0	0	NA	0	0	0
Unkno wn	1	24373 6210	24373 6212	DEL	CTT	C	CT	novel	42	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	1	24373 6210	24373 6212	DEL	CTT	CTT	C	novel	19	0	0	0	0	47	0	1	NA	0	0	0
Unkno wn	1	24373 6210	24373 6212	DEL	CTT	C	CT	novel	28	0	0	0	0	117	0	1	NA	0	0	0
Unkno wn	1	24373 6210	24373 6212	DEL	CTT	CTT	C	novel	29	0	0	0	0	89	0	0	NA	0	0	0
Unkno wn	1	24377 7058	24377 7058	SNP	G	G	A	novel	19	0	0	0	0	27	19	8	NA	0	0	0
Unkno wn	2	25475 151	25475 151	SNP	A	A	G	novel	38	0	0	0	0	51	34	15	NA	0	0	0
Unkno wn	2	25475 151	25475 151	SNP	A	A	G	novel	29	0	0	0	0	23	15	7	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	3	0	0	0	0	250	142	100	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	4	0	0	0	0	250	158	86	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	7	0	0	0	0	173	105	67	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	10	0	0	0	0	250	137	98	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	33	0	0	0	0	250	145	98	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	39	0	0	0	0	221	120	87	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	17	0	0	0	0	181	102	65	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	18	0	0	0	0	199	114	73	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	21	0	0	0	0	250	154	86	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	45	0	0	0	0	250	127	94	NA	0	0	0
Unkno wn	2	29416 025	29416 025	INS	C	C	CATTG	novel	46	0	0	0	0	247	131	88	NA	0	0	0
ALK	2	29416 117	29416 117	SNP	C	C	T	rs781 74819	13	c.G4836A	p.K1612 K	NM_00 4304	exon29	250	218	32	NA	0.01 429 9	0	2
Unkno wn	2	29429 980	29429 980	SNP	G	G	A	rs111 50597 7	13	0	0	0	0	250	217	33	NA	0	0	0
Unkno wn	2	29447 064	29447 064	SNP	C	C	A	novel	20	0	0	0	0	106	92	14	NA	0	0	0
Unkno wn	2	29448 787	29448 791	DEL	TGTAA	TGTAA	T	novel	10	0	0	0	0	193	115	56	NA	0	0	0
Unkno wn	2	29450 383	29450 383	SNP	G	G	A	rs114 99182 2	29	0	0	0	0	97	85	12	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	1	0	0	0	0	250	194	56	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	2	0	0	0	0	249	193	56	NA	0	0	0

Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	6	0	0	0	0	250	192	58	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	7	0	0	0	0	141	108	33	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	9	0	0	0	0	249	179	69	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	10	0	0	0	0	250	181	69	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	12	0	0	0	0	250	202	48	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	13	0	0	0	0	250	192	58	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	15	0	0	0	0	248	184	64	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	32	0	0	0	0	230	167	63	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	33	0	0	0	0	209	160	49	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	34	0	0	0	0	142	117	25	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	35	0	0	0	0	214	155	58	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	36	0	0	0	0	245	185	60	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	37	0	0	0	0	119	94	25	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	38	0	0	0	0	83	67	16	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	39	0	0	0	0	156	105	51	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	40	0	0	0	0	136	91	45	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	41	0	0	0	0	249	183	66	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	42	0	0	0	0	202	128	74	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	16	0	0	0	0	208	142	66	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	17	0	0	0	0	165	109	56	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	18	0	0	0	0	174	117	57	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	21	0	0	0	0	186	129	57	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	22	0	0	0	0	249	171	78	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	20	0	0	0	0	80	60	20	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	23	0	0	0	0	247	173	74	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	24	0	0	0	0	208	139	69	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	25	0	0	0	0	190	129	61	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	26	0	0	0	0	221	160	60	NA	0	0	0

Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	27	0	0	0	0	227	158	68	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	28	0	0	0	0	84	59	25	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	29	0	0	0	0	41	29	12	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	30	0	0	0	0	88	74	14	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	31	0	0	0	0	119	86	33	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	44	0	0	0	0	250	194	56	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	45	0	0	0	0	250	198	52	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	46	0	0	0	0	250	202	48	NA	0	0	0
Unkno wn	2	29451 045	29451 045	SNP	A	A	C	novel	50	0	0	0	0	250	201	49	NA	0	0	0
Unkno wn	2	29451 433	29451 433	SNP	G	G	A	ss454 95468 3	10	0	0	0	0	171	154	17	NA	0	0	0
ALK	2	29474 054	29474 054	SNP	G	G	T	novel	18	c.C2121A	p.N707K	NM_00 4304	exon12	219	185	34	possibly_ damaging	0	0	0
ALK	2	29497 967	29497 967	SNP	G	G	A	rs352 28363	13	c.C2039T	p.T680I	NM_00 4304	exon11	250	157	93	benign	0.00 522	0.02 907	0
ALK	2	29497 967	29497 967	SNP	G	G	A	rs352 28363	20	c.C2039T	p.T680I	NM_00 4304	exon11	123	105	18	benign	0.00 522	0.02 907	0
ALK	2	29497 967	29497 967	SNP	G	G	A	rs352 28363	29	c.C2039T	p.T680I	NM_00 4304	exon11	91	78	13	benign	0.00 522	0.02 907	0
Unkno wn	2	39224 637	39224 637	SNP	G	G	A	rs114 52146 9	10	0	0	0	0	250	227	23	NA	0	0	0
Unkno wn	2	39234 432	39234 432	SNP	G	G	C	rs412 80637	3	0	0	0	0	245	165	79	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	8	0	0	0	0	156	99	57	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	11	0	0	0	0	31	24	7	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	32	0	0	0	0	71	53	18	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	34	0	0	0	0	60	36	24	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	35	0	0	0	0	61	45	16	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	37	0	0	0	0	37	28	9	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	38	0	0	0	0	66	59	7	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	24	0	0	0	0	165	126	39	NA	0	0	0

Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	29	0	0	0	0	54	40	14	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	31	0	0	0	0	82	57	25	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	44	0	0	0	0	116	86	30	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	48	0	0	0	0	51	41	10	NA	0	0	0
Unkno wn	2	13194 7387	13194 7387	SNP	G	G	T	rs116 76864 1	50	0	0	0	0	149	112	36	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	8	0	0	0	0	203	126	77	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	11	0	0	0	0	44	32	12	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	32	0	0	0	0	98	72	26	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	35	0	0	0	0	82	57	25	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	37	0	0	0	0	46	38	8	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	24	0	0	0	0	190	153	37	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	31	0	0	0	0	101	76	25	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	44	0	0	0	0	150	115	35	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	48	0	0	0	0	66	52	14	NA	0	0	0
Unkno wn	2	13194 7404	13194 7404	SNP	T	T	A	rs752 06216	50	0	0	0	0	188	146	42	NA	0	0	0
Unkno wn	2	21224 8281	21224 8281	SNP	G	G	C	novel	11	0	0	0	0	56	37	19	NA	0	0	0
Unkno wn	2	21225 2785	21225 2785	SNP	G	G	A	novel	11	0	0	0	0	36	28	8	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	T	TA	novel	34	0	0	0	0	70	0	2	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	T	TA	novel	37	0	0	0	0	49	0	1	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	TAA	T	novel	38	0	0	0	0	73	0	3	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	T	TA	novel	39	0	0	0	0	107	0	5	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	T	TA	novel	42	0	0	0	0	159	0	2	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	T	TA	novel	21	0	0	0	0	113	0	1	NA	0	0	0
Unkno wn	2	21257 8379	21257 8381	DEL	TAA	TAA	T	novel	20	0	0	0	0	75	0	4	NA	0	0	0
Unkno wn	2	23201 0941	23201 0944	DEL	TAAA	TAAA	T	novel	19	0	0	0	0	37	25	12	NA	0	0	0
Unkno wn	2	23201 0947	23201 0947	SNP	C	C	T	novel	19	0	0	0	0	43	31	12	NA	0	0	0

Unkno wn	2	23467 8238	23467 8238	SNP	C	C	T	novel	28	0	0	0	0	104	63	41	NA	0	0.00 200 9	0
Unkno wn	2	23468 0887	23468 0887	SNP	C	C	T	novel	13	0	0	0	0	250	219	31	NA	0	0.00 011 6	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	33	c.C113G	p.S38C	NM_00 0551	exon1	225	170	55	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	35	c.C113G	p.S38C	NM_00 0551	exon1	224	179	44	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	36	c.C113G	p.S38C	NM_00 0551	exon1	250	190	60	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	37	c.C113G	p.S38C	NM_00 0551	exon1	178	140	38	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	38	c.C113G	p.S38C	NM_00 0551	exon1	133	115	18	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	39	c.C113G	p.S38C	NM_00 0551	exon1	169	105	64	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	40	c.C113G	p.S38C	NM_00 0551	exon1	195	155	40	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	41	c.C113G	p.S38C	NM_00 0551	exon1	245	171	74	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	42	c.C113G	p.S38C	NM_00 0551	exon1	225	159	66	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	16	c.C113G	p.S38C	NM_00 0551	exon1	195	142	53	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	17	c.C113G	p.S38C	NM_00 0551	exon1	159	108	50	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	18	c.C113G	p.S38C	NM_00 0551	exon1	219	161	58	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	21	c.C113G	p.S38C	NM_00 0551	exon1	169	123	45	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	22	c.C113G	p.S38C	NM_00 0551	exon1	243	175	68	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	23	c.C113G	p.S38C	NM_00 0551	exon1	224	160	64	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	24	c.C113G	p.S38C	NM_00 0551	exon1	198	139	57	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	25	c.C113G	p.S38C	NM_00 0551	exon1	182	124	57	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	26	c.C113G	p.S38C	NM_00 0551	exon1	219	172	47	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	27	c.C113G	p.S38C	NM_00 0551	exon1	227	157	70	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	28	c.C113G	p.S38C	NM_00 0551	exon1	99	74	25	benign	0	0	0
VHL	3	10183 644	10183 644	SNP	C	C	G	novel	31	c.C113G	p.S38C	NM_00 0551	exon1	127	94	33	benign	0	0	0
Unkno wn	3	10188 363	10188 363	SNP	A	A	G	rs346 61876	12	0	0	0	0	250	155	95	NA	0.00 385 8	0.01 965 1	0
Unkno wn	3	37058 918	37058 918	SNP	A	A	G	rs104 89499 8	13	0	0	0	0	250	157	92	NA	0	0	0
Unkno wn	3	37067 120	37067 120	SNP	T	T	A	novel	4	0	0	0	0	249	159	90	NA	0	0	0

Unkno wn	3	37067 120	37067 120	SNP	T	T	A	novel	23	0	0	0	0	128	86	41	NA	0	0	0
Unkno wn	3	37067 120	37067 120	SNP	T	T	A	novel	24	0	0	0	0	168	108	60	NA	0	0	0
Unkno wn	3	37067 120	37067 120	SNP	T	T	A	novel	29	0	0	0	0	49	31	18	NA	0	0	0
Unkno wn	3	38180 103	38180 103	INS	C	C	CGGCGG	novel	38	0	0	0	0	140	58	38	NA	0.01 101 7	0.02 684 6	0
Unkno wn	3	38180 103	38180 103	INS	C	C	CGGCGG	novel	17	0	0	0	0	105	58	22	NA	0.01 101 7	0.02 684 6	0
Unkno wn	3	38180 103	38180 103	INS	C	C	CGGCGG	novel	30	0	0	0	0	57	24	18	NA	0.01 101 7	0.02 684 6	0
Unkno wn	3	49936 278	49936 278	SNP	G	G	A	novel	20	0	0	0	0	122	103	18	NA	0.00 340 4	0.01 767 4	0
Unkno wn	3	18402 5335	18402 5335	SNP	G	G	C	rs111 79981 8	29	0	0	0	0	83	67	16	NA	0.00 363 1	0.02 174 4	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	1	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	11	0	0	0	0	57	0	0	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	14	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	34	0	0	0	0	92	0	1	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	38	0	0	0	0	110	0	2	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	39	0	0	0	0	170	0	4	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	42	0	0	0	0	250	0	4	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	19	0	0	0	0	51	0	3	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	20	0	0	0	0	205	0	4	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	25	0	0	0	0	182	0	1	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	28	0	0	0	0	114	0	3	NA	0	0	0
Unkno wn	4	54876 131	54876 133	DEL	ACA	A	AA	novel	29	0	0	0	0	79	0	4	NA	0	0	0
PDGFR A	4	55127 448	55127 448	SNP	G	G	A	rs360 35373	20	c.G236A	p.G79D	NM_00 6206	exon3	182	123	59	possibly_ damaging	0.00 363 1	0.01 372 1	0
Unkno wn	4	55131 001	55131 003	INS	TAA	TAAA	TA	novel	8	0	0	0	0	245	0	72	NA	0	0	0
Unkno wn	4	55131 001	55131 003	DEL	TAA	T	TA	novel	38	0	0	0	0	81	0	1	NA	0	0	0
Unkno wn	4	55131 001	55131 003	DEL	TAA	T	TA	novel	17	0	0	0	0	111	0	3	NA	0	0	0
Unkno wn	4	55131 001	55131 003	DEL	TAA	TAA	T	novel	29	0	0	0	0	58	0	0	NA	0	0	0
Unkno wn	4	55131 001	55131 003	DEL	TAA	T	TA	novel	46	0	0	0	0	250	0	0	NA	0	0	0

Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	1	0	0	0	0	238	151	86	NA	0	0	0
Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	38	0	0	0	0	102	65	37	NA	0	0	0
Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	24	0	0	0	0	214	145	68	NA	0	0	0
Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	30	0	0	0	0	87	55	32	NA	0	0	0
Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	31	0	0	0	0	122	81	40	NA	0	0	0
Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	46	0	0	0	0	244	156	88	NA	0	0	0
Unkno wn	4	55144 413	55144 413	SNP	A	A	C	rs449 3602	48	0	0	0	0	132	101	31	NA	0	0	0
Unkno wn	4	55155 124	55155 124	SNP	G	G	A	rs150 10936 3	13	0	0	0	0	250	160	89	NA	0.00 114 2	0.01 155 2	0
Unkno wn	4	55597 986	55597 986	SNP	T	T	A	rs283 84378	13	0	0	0	0	250	151	99	NA	0.00 045 4	0.01 256 1	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	TATAGATAG	TATAGATAG ATAGATAG	novel	41	0	0	0	0	68	33	21	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	TATAGATAG	TATAGATAG ATAGATAG	novel	42	0	0	0	0	74	39	14	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	1	0	0	0	0	120	50	48	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	2	0	0	0	0	200	88	73	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	3	0	0	0	0	170	83	63	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	TATAGATAG ATAG	novel	4	0	0	0	0	230	2	89	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	5	0	0	0	0	106	45	44	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	TATAGATAG ATAG	novel	6	0	0	0	0	143	0	54	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	8	0	0	0	0	113	42	39	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	10	0	0	0	0	162	65	68	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	11	0	0	0	0	9	0	7	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	13	0	0	0	0	133	46	54	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	14	0	0	0	0	169	141	6	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	15	0	0	0	0	92	1	62	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	32	0	0	0	0	51	20	20	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	33	0	0	0	0	59	25	22	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	34	0	0	0	0	18	6	7	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	35	0	0	0	0	65	23	26	NA	0	0	0

Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	36	0	0	0	0	78	36	29	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	38	0	0	0	0	22	5	5	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	TATAGATAG ATAG	novel	39	0	0	0	0	38	0	12	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	40	0	0	0	0	44	0	32	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	16	0	0	0	0	55	0	45	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	17	0	0	0	0	32	9	14	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	18	0	0	0	0	52	0	38	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	19	0	0	0	0	14	5	2	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	21	0	0	0	0	77	0	66	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	20	0	0	0	0	41	8	19	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	23	0	0	0	0	84	36	36	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	25	0	0	0	0	77	0	70	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	26	0	0	0	0	71	32	27	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	27	0	0	0	0	81	33	33	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	31	0	0	0	0	68	0	52	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	43	0	0	0	0	73	0	56	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	44	0	0	0	0	170	64	59	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	45	0	0	0	0	156	68	56	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	TATAGATAG	T	novel	47	0	0	0	0	126	58	53	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	DEL	TATAGATAG	T	T	novel	48	0	0	0	0	66	0	39	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	T	TATAGATAG ATAG	novel	4	0	0	0	0	230	2	94	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	T	TATAGATAG ATAG	novel	6	0	0	0	0	143	0	55	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	TATAGATAG	TATAGATAG ATAG	novel	7	0	0	0	0	82	30	22	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	T	TATAGATAG ATAG	novel	39	0	0	0	0	38	0	16	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	TATAGATAGA TAG	TATAGATAG ATAG	novel	22	0	0	0	0	116	1	85	NA	0	0	0
Unkno wn	4	10615 4990	10615 4998	INS	TATAGATAG	TATAGATAGA TAG	TATAGATAG ATAG	novel	49	0	0	0	0	160	3	119	NA	0	0	0
TET2	4	10619 6819	10619 6819	SNP	G	G	T	rs142 31231 8	10	c.G5152T	p.V1718 L	NM_00 112720 8	exon11	250	221	28	NA	0.00 072 3	0.00 66	8

Unkno wn	4	14334 4904	14334 4904	SNP	G	G	A	rs146 68448 1	19	0	0	0	0	40	24	16	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	INS	TA	TA	TAA	novel	39	0	0	0	0	216	0	0	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	INS	TA	TA	TAA	novel	49	0	0	0	0	248	0	0	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	3	0	0	0	0	240	0	2	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	6	0	0	0	0	245	0	2	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	7	0	0	0	0	234	0	3	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	11	0	0	0	0	84	0	1	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	12	0	0	0	0	238	0	0	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	15	0	0	0	0	212	0	1	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	33	0	0	0	0	173	0	3	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	34	0	0	0	0	104	0	0	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	36	0	0	0	0	222	0	2	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	38	0	0	0	0	66	0	3	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	16	0	0	0	0	225	0	8	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	19	0	0	0	0	41	0	3	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	20	0	0	0	0	152	0	6	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	26	0	0	0	0	231	0	2	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	28	0	0	0	0	115	0	1	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	29	0	0	0	0	91	0	2	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	30	0	0	0	0	203	0	1	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	31	0	0	0	0	172	0	4	NA	0	0	0
Unkno wn	4	14334 4974	14334 4975	DEL	TA	TA	T	novel	45	0	0	0	0	244	0	1	NA	0	0	0
Unkno wn	4	14335 2425	14335 2425	SNP	C	C	A	rs138 32501 4	3	0	0	0	0	250	150	100	NA	0.00 340 4	0.02 616 3	0
Unkno wn	4	15327 3667	15327 3667	SNP	T	T	G	rs146 21764 8	13	0	0	0	0	250	153	97	NA	0.00 045 4	0.00 255 8	0
Unkno wn	4	16257 7426	16257 7426	SNP	G	G	A	rs145 38618 9	10	0	0	0	0	201	127	74	NA	0	0	0
FSTL5	4	16257 7503	16257 7503	SNP	T	T	A	rs140 18353 0	11	c.A871T	p.N291Y	NM_02 0116	exon7	50	30	20	possibly_ damaging	0	0.00 430 2	0

FSTL5	4	16269 7119	16269 7119	SNP	T	T	C	rs145 03480 8	20	c.A517G	p.I173V	NM_02 0116	exon5	149	134	15	benign	0	0.00 081 5	0
MAP3 K1	5	56177 848	56177 854	DEL	TCAACAA	T	TCAA	novel	38	c.2822_28 27del	p.941_9 43del	NM_00 5921	exon14	97	0	0	NA	0	0	0
MAP3 K1	5	56177 848	56177 854	DEL	TCAACAA	T	TCAA	novel	42	c.2822_28 27del	p.941_9 43del	NM_00 5921	exon14	250	0	0	NA	0	0	0
Unkno wn	5	11211 1302	11211 1302	INS	C	C	CT	novel	28	0	0	0	0	68	35	27	NA	0.00 520 6	0.01 061 8	0
Unkno wn	5	11211 6661	11211 6661	SNP	C	C	T	rs563 28836	9	0	0	0	0	155	92	62	NA	0	0	0
Unkno wn	5	12178 8728	12178 8728	INS	A	A	ATGCTT	novel	4	0	0	0	0	246	130	74	NA	0	0	0
CSF1R	5	14943 3887	14943 3887	SNP	G	G	A	novel	19	c.C2761T	p.R921 W	NM_00 5211	exon21	30	18	12	possibly_ damaging	0	0.00 023 3	0
CSF1R	5	14943 3887	14943 3887	SNP	G	G	A	novel	20	c.C2761T	p.R921 W	NM_00 5211	exon21	152	98	53	possibly_ damaging	0	0.00 023 3	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	32	0	0	0	0	248	173	75	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	33	0	0	0	0	233	167	66	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	34	0	0	0	0	143	105	38	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	35	0	0	0	0	224	163	60	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	36	0	0	0	0	248	176	72	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	37	0	0	0	0	178	125	53	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	38	0	0	0	0	97	63	34	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	39	0	0	0	0	221	139	81	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	40	0	0	0	0	210	136	74	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	41	0	0	0	0	246	171	75	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	42	0	0	0	0	219	152	67	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	16	0	0	0	0	222	138	84	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	17	0	0	0	0	223	138	85	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	18	0	0	0	0	201	132	69	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	21	0	0	0	0	212	149	63	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	22	0	0	0	0	245	164	80	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	20	0	0	0	0	103	72	30	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	23	0	0	0	0	248	172	75	NA	0	0	0

Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	25	0	0	0	0	234	160	74	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	26	0	0	0	0	226	155	71	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	27	0	0	0	0	220	153	66	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	28	0	0	0	0	105	68	37	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	30	0	0	0	0	110	70	40	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	31	0	0	0	0	158	95	63	NA	0	0	0
Unkno wn	5	14943 6991	14943 6991	SNP	A	A	C	novel	50	0	0	0	0	250	187	62	NA	0	0	0
CSF1R	5	14945 6964	14945 6964	SNP	T	T	A	rs146 40603 7	29	c.A764T	p.N255I	NM_00 5211	exon6	91	57	34	probably_ damaging	0	0.00 220 9	0
Unkno wn	5	14949 5287	14949 5287	SNP	G	G	T	rs222 9561	49	0	0	0	0	250	129	120	NA	0	0	0
Unkno wn	5	14949 8223	14949 8223	SNP	C	C	T	rs150 26396 6	20	0	0	0	0	102	83	19	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	34	c.C1314G	p.G438 G	NM_00 2609	exon9	250	171	77	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	37	c.C1314G	p.G438 G	NM_00 2609	exon9	250	175	73	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	38	c.C1314G	p.G438 G	NM_00 2609	exon9	121	96	24	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	39	c.C1314G	p.G438 G	NM_00 2609	exon9	250	167	82	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	40	c.C1314G	p.G438 G	NM_00 2609	exon9	250	164	85	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	16	c.C1314G	p.G438 G	NM_00 2609	exon9	250	167	82	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	17	c.C1314G	p.G438 G	NM_00 2609	exon9	235	143	92	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	18	c.C1314G	p.G438 G	NM_00 2609	exon9	250	155	94	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	20	c.C1314G	p.G438 G	NM_00 2609	exon9	125	97	28	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	28	c.C1314G	p.G438 G	NM_00 2609	exon9	142	97	42	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	29	c.C1314G	p.G438 G	NM_00 2609	exon9	105	79	26	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	30	c.C1314G	p.G438 G	NM_00 2609	exon9	233	155	77	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	31	c.C1314G	p.G438 G	NM_00 2609	exon9	221	150	69	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	43	c.C1314G	p.G438 G	NM_00 2609	exon9	250	180	69	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	44	c.C1314G	p.G438 G	NM_00 2609	exon9	250	192	58	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	45	c.C1314G	p.G438 G	NM_00 2609	exon9	250	191	59	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	46	c.C1314G	p.G438 G	NM_00 2609	exon9	250	191	59	NA	0	0	0

PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	47	c.C1314G	p.G438 G	NM_00 2609	exon9	250	178	72	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	49	c.C1314G	p.G438 G	NM_00 2609	exon9	250	190	60	NA	0	0	0
PDGFR B	5	14951 0155	14951 0155	SNP	G	G	C	novel	50	c.C1314G	p.G438 G	NM_00 2609	exon9	250	178	72	NA	0	0	0
Unkno wn	5	17081 8921	17081 8921	SNP	G	G	A	rs115 15717 2	39	0	0	0	0	123	78	45	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	INS	CT	CT	CTT	novel	25	0	0	0	0	220	0	0	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	3	0	0	0	0	245	0	7	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	4	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	7	0	0	0	0	178	0	6	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	10	0	0	0	0	246	0	4	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	11	0	0	0	0	48	0	2	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	12	0	0	0	0	246	0	3	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	13	0	0	0	0	247	0	5	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	15	0	0	0	0	171	0	4	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	32	0	0	0	0	237	0	7	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	34	0	0	0	0	109	0	6	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	36	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	37	0	0	0	0	113	0	5	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	38	0	0	0	0	56	0	5	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	39	0	0	0	0	143	0	5	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	40	0	0	0	0	133	0	4	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	42	0	0	0	0	245	0	4	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	17	0	0	0	0	72	0	2	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	18	0	0	0	0	136	0	2	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	19	0	0	0	0	17	0	0	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	21	0	0	0	0	201	0	5	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	22	0	0	0	0	248	0	7	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	20	0	0	0	0	96	0	5	NA	0	0	0

Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	23	0	0	0	0	227	0	6	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	24	0	0	0	0	250	0	4	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	26	0	0	0	0	226	0	14	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	27	0	0	0	0	229	0	8	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	28	0	0	0	0	98	0	3	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	29	0	0	0	0	54	0	3	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	44	0	0	0	0	249	0	4	NA	0	0	0
Unkno wn	5	17083 7513	17083 7514	DEL	CT	CT	C	novel	49	0	0	0	0	250	0	10	NA	0	0	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGT	novel	8	0	0	0	0	246	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGT	novel	12	0	0	0	0	250	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGT	novel	36	0	0	0	0	250	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGTGT	CGTGTGT	novel	41	0	0	0	0	250	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGT	novel	21	0	0	0	0	250	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGTGT	CGTGTGT	novel	25	0	0	0	0	232	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGT	novel	43	0	0	0	0	250	0	0	NA	0.07 643 5	0.06 172 7	0
Unkno wn	5	18004 7739	18004 7741	DEL	CGT	CGT	C	novel	34	0	0	0	0	250	0	2	NA	0.07 855 1	0.06 245 5	0
Unkno wn	5	18004 7739	18004 7741	DEL	CGT	CGT	C	novel	35	0	0	0	0	246	0	4	NA	0.07 855 1	0.06 245 5	0
Unkno wn	5	18004 7739	18004 7741	DEL	CGT	CGT	C	novel	16	0	0	0	0	170	0	0	NA	0.07 855 1	0.06 245 5	0
Unkno wn	5	18004 7739	18004 7741	DEL	CGT	CGT	C	novel	23	0	0	0	0	250	0	1	NA	0.07 855 1	0.06 245 5	0
Unkno wn	5	18004 7739	18004 7741	DEL	CGT	CGT	C	novel	26	0	0	0	0	246	0	3	NA	0.07 855 1	0.06 245 5	0
Unkno wn	5	18004 7739	18004 7741	DEL	CGT	CGT	C	novel	49	0	0	0	0	248	0	1	NA	0.07 855 1	0.06 245 5	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	3	0	0	0	0	250	0	11	NA	0.09 078 1	0.21 343 7	0

Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	4	0	0	0	0	250	0	13	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	5	0	0	0	0	250	0	10	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	7	0	0	0	0	106	0	2	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	9	0	0	0	0	250	0	7	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	10	0	0	0	0	248	0	1	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	13	0	0	0	0	240	0	8	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	14	0	0	0	0	249	0	7	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	37	0	0	0	0	216	0	15	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	38	0	0	0	0	153	0	6	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGTGT	CGTGTGT	novel	41	0	0	0	0	250	0	27	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	17	0	0	0	0	248	0	12	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	18	0	0	0	0	238	0	5	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	19	0	0	0	0	25	0	3	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	22	0	0	0	0	250	0	9	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	20	0	0	0	0	104	0	4	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	24	0	0	0	0	227	0	15	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGTGT	CGTGTGT	novel	25	0	0	0	0	232	0	18	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	27	0	0	0	0	250	0	9	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	28	0	0	0	0	98	0	9	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	29	0	0	0	0	45	0	5	NA	0.09 078 1	0.21 343 7	0

Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	30	0	0	0	0	114	0	2	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	46	0	0	0	0	250	0	9	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18004 7739	18004 7741	INS	CGT	CGT	CGTGTGT	novel	48	0	0	0	0	211	0	6	NA	0.09 078 1	0.21 343 7	0
Unkno wn	5	18005 1071	18005 1071	SNP	C	C	T	novel	20	0	0	0	0	55	35	20	NA	0.00 090 8	0.00 732 9	0
Unkno wn	5	18005 2831	18005 2850	DEL	TGGCTGTGCA GGGGACCTG A	TGGCTGTGCA GGGGACCTG A	T	novel	8	0	0	0	0	149	66	53	NA	0.12 458 3	0.01 780 1	0
Unkno wn	5	18005 2831	18005 2850	DEL	TGGCTGTGCA GGGGACCTG A	TGGCTGTGCA GGGGACCTG A	T	novel	38	0	0	0	0	116	47	45	NA	0.12 458 3	0.01 780 1	0
Unkno wn	5	18005 7371	18005 7371	SNP	C	C	T	rs779 18653	36	0	0	0	0	227	119	90	NA	0.00 318 5	0.01 991 6	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	32	0	0	0	0	59	45	14	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	34	0	0	0	0	54	45	9	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	35	0	0	0	0	49	42	7	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	36	0	0	0	0	105	81	24	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	37	0	0	0	0	39	27	12	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	38	0	0	0	0	56	45	11	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	39	0	0	0	0	48	37	11	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	40	0	0	0	0	43	29	14	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	41	0	0	0	0	90	69	21	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	42	0	0	0	0	50	37	13	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	16	0	0	0	0	27	24	3	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	17	0	0	0	0	43	30	13	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	18	0	0	0	0	49	34	15	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	19	0	0	0	0	14	10	4	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	21	0	0	0	0	33	26	7	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	22	0	0	0	0	68	48	20	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	20	0	0	0	0	38	29	9	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	23	0	0	0	0	51	42	9	NA	0	0	0

Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	24	0	0	0	0	30	19	11	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	25	0	0	0	0	39	26	13	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	26	0	0	0	0	39	29	10	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	27	0	0	0	0	56	39	16	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	28	0	0	0	0	35	28	7	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	30	0	0	0	0	15	12	3	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	47	0	0	0	0	250	186	64	NA	0	0	0
Unkno wn	5	18007 6386	18007 6386	SNP	G	G	C	novel	50	0	0	0	0	211	163	48	NA	0	0	0
Unkno wn	6	30860 342	30860 342	SNP	C	C	T	novel	29	0	0	0	0	82	56	26	NA	0.00 090	0.00 430	0
DDR1	6	30862 440	30862 440	SNP	A	A	G	rs116 67972 8	10	c.A1505G	p.N502S	NM_01 3994	exon10	250	167	83	possibly_ damaging	0.00 953 8	0.00 965 1	0
Unkno wn	6	11763 1463	11763 1466	DEL	TTAA	TTAA	T	novel	41	0	0	0	0	109	32	39	NA	0.01 599	0.06 325 3	0
Unkno wn	6	11763 1463	11763 1466	DEL	TTAA	TTAA	T	novel	16	0	0	0	0	71	25	25	NA	0.01 599	0.06 325 3	0
Unkno wn	6	11763 1463	11763 1466	DEL	TTAA	TTAA	T	novel	19	0	0	0	0	17	7	6	NA	0.01 599	0.06 325 3	0
Unkno wn	6	11763 1463	11763 1466	DEL	TTAA	TTAA	T	novel	20	0	0	0	0	69	22	25	NA	0.01 599	0.06 325 3	0
Unkno wn	6	11763 1463	11763 1466	DEL	TTAA	TTAATAA	T	novel	23	0	0	0	0	49	0	12	NA	0.01 599	0.06 325 3	0
ROS1	6	11764 1046	11764 1046	SNP	G	G	T	rs146 65315 0	29	c.C5925A	p.I1975I	NM_00 2944	exon36	99	87	12	NA	0	0.00 034 9	0
ROS1	6	11766 3593	11766 3593	SNP	T	T	C	novel	13	c.A4639G	p.K1547 E	NM_00 2944	exon28	244	221	23	benign	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACAC	novel	3	0	0	0	0	146	0	5	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACACACACA C	novel	4	0	0	0	0	43	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACAC	novel	10	0	0	0	0	68	0	1	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACAC	novel	14	0	0	0	0	121	0	4	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC AC	novel	37	0	0	0	0	12	0	1	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACAC	novel	17	0	0	0	0	33	0	1	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACAC	novel	22	0	0	0	0	83	0	0	NA	0	0	0

Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACACACACA C	novel	43	0	0	0	0	55	0	3	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	DEL	GACACACAC	G	GACACACAC ACAC	novel	49	0	0	0	0	80	0	3	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACACACAC	novel	1	0	0	0	0	41	0	4	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACACACAC	novel	2	0	0	0	0	52	0	5	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACACACAC	novel	9	0	0	0	0	35	0	3	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACAC	novel	42	0	0	0	0	38	0	9	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACAC	novel	19	0	0	0	0	14	0	7	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	5	0	0	0	0	34	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	6	0	0	0	0	47	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	8	0	0	0	0	57	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	12	0	0	0	0	75	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	15	0	0	0	0	52	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	34	0	0	0	0	19	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	35	0	0	0	0	14	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	36	0	0	0	0	21	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	G	GACACACAC AC	novel	37	0	0	0	0	12	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	38	0	0	0	0	32	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	18	0	0	0	0	23	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACACACAC	novel	21	0	0	0	0	29	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	23	0	0	0	0	31	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACACACAC	novel	24	0	0	0	0	67	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	25	0	0	0	0	33	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	26	0	0	0	0	38	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	27	0	0	0	0	30	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACACACAC	novel	31	0	0	0	0	26	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	45	0	0	0	0	35	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACAC	novel	50	0	0	0	0	119	0	0	NA	0	0	0

Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACACACAC	novel	1	0	0	0	0	41	0	7	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACACACAC	novel	2	0	0	0	0	52	0	6	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACAC	GACACACAC ACACACAC	novel	9	0	0	0	0	35	0	7	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CACACACAC	GACACACAC ACACACAC	novel	33	0	0	0	0	11	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CAC	GACACACAC ACACACAC	novel	16	0	0	0	0	17	0	0	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACACACAC	novel	21	0	0	0	0	29	0	1	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACACACAC	novel	24	0	0	0	0	67	0	2	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA C	GACACACAC ACACACAC	novel	31	0	0	0	0	26	0	1	NA	0	0	0
Unkno wn	6	11768 1436	11768 1444	INS	GACACACAC	GACACACACA CAC	GACACACAC ACACACAC	novel	48	0	0	0	0	23	0	2	NA	0	0	0
ROSI	6	11771 5381	11771 5381	SNP	A	A	G	rs562 74823	29	c.T1108C	p.S370P	NM_00 2944	exon10	61	37	24	possibly_ damaging	0.00 068	0.00 383	0
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	2	0	0	0	0	250	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	3	0	0	0	0	233	0	1	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	6	0	0	0	0	239	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	7	0	0	0	0	126	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	10	0	0	0	0	226	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	11	0	0	0	0	34	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	32	0	0	0	0	120	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	33	0	0	0	0	130	0	1	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	34	0	0	0	0	69	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	35	0	0	0	0	128	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	36	0	0	0	0	189	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	37	0	0	0	0	59	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	38	0	0	0	0	53	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	39	0	0	0	0	128	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	40	0	0	0	0	77	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	41	0	0	0	0	204	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	42	0	0	0	0	184	0	0	NA	0	0	1

Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	16	0	0	0	0	116	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	17	0	0	0	0	87	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	18	0	0	0	0	115	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	19	0	0	0	0	23	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	21	0	0	0	0	121	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	22	0	0	0	0	226	0	2	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	20	0	0	0	0	106	0	3	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	23	0	0	0	0	166	0	1	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	24	0	0	0	0	237	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	26	0	0	0	0	127	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	27	0	0	0	0	168	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	28	0	0	0	0	79	0	1	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	29	0	0	0	0	48	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	30	0	0	0	0	95	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	31	0	0	0	0	90	0	0	NA	0	0	1
Unkno wn	6	11773 5716	11773 5717	DEL	GA	GA	G	novel	45	0	0	0	0	204	0	0	NA	0	0	1
LAMA 2	6	12964 9521	12964 9521	SNP	C	C	A	novel	10	c.C4275A	p.H1425 Q	NM_00 0426	exon29	248	163	85	possibly_ damaging	0	0	0
Unkno wn	6	12967 0411	12967 0411	SNP	C	C	A	novel	29	0	0	0	0	96	58	35	NA	0	0.00 186	0
Unkno wn	6	12976 4169	12976 4170	DEL	AT	AT	A	novel	19	0	0	0	0	27	19	7	NA	0.00 868 5	0.00 546 2	0
Unkno wn	6	12978 1525	12978 1525	SNP	A	A	T	rs150 86800 9	13	0	0	0	0	182	110	72	NA	0	0	0
LAMA 2	6	12980 7766	12980 7766	SNP	G	G	A	novel	24	c.G7897A	p.G2633 S	NM_00 0426	exon56	250	196	53	possibly_ damaging	0	0	0
LAMA 2	6	12983 3568	12983 3568	SNP	C	C	A	rs145 84216 3	20	c.C8918A	p.T2973 K	NM_00 0426	exon63	168	110	58	possibly_ damaging	0	0.00 034 9	0
Unkno wn	6	16055 7202	16055 7202	SNP	T	T	C	novel	15	0	0	0	0	155	93	62	NA	0.00 113 5	0.00 058 1	0
SLC22 A1	6	16056 4616	16056 4616	SNP	G	G	A	rs359 56182	20	c.G1320A	p.M440I	NM_00 3057	exon8	168	149	19	probably_ damaging	0.00 181 6	0.00 965 1	0
SLC22 A1	6	16057 5837	16057 5837	SNP	G	G	A	rs340 59508	13	c.G1393A	p.G465R	NM_00 3057	exon9	247	211	36	probably_ damaging	0.00 340 4	0.02 604 7	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	1	0	0	0	0	109	56	37	NA	0	0	0

Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	5	0	0	0	0	119	56	38	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	6	0	0	0	0	93	34	37	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	10	0	0	0	0	158	80	48	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	15	0	0	0	0	81	32	32	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	37	0	0	0	0	26	11	7	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	40	0	0	0	0	60	28	16	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	42	0	0	0	0	133	49	52	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	16	0	0	0	0	58	28	22	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	22	0	0	0	0	135	52	49	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	25	0	0	0	0	95	42	36	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	26	0	0	0	0	85	29	29	NA	0	0	0
Unkno wn	6	16064 5921	16064 5921	INS	C	C	CT	novel	31	0	0	0	0	60	18	22	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	1	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	3	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	6	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	14	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	32	0	0	0	0	111	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	42	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	19	0	0	0	0	18	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	20	0	0	0	0	98	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	25	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	29	0	0	0	0	52	0	0	NA	0	0	0
Unkno wn	7	50454 939	50454 939	INS	A	A	AT	novel	31	0	0	0	0	111	0	0	NA	0	0	0
Unkno wn	7	50459 369	50459 369	SNP	C	C	T	rs773 09888	20	0	0	0	0	143	124	19	NA	0	0	0
Unkno wn	7	55225 317	55225 317	SNP	T	T	C	novel	13	0	0	0	0	250	159	91	NA	0	0.00 023 3	0
Unkno wn	7	87144 816	87144 816	SNP	G	G	A	rs777 9562	7	0	0	0	0	91	37	54	NA	0	0	0
ABC81	7	87160 618	87160 618	SNP	A	A	T	rs203 2582	41	c.T2677A	p.S893T	NM_00 0927	exon22	250	143	107	benign	0	0	0

Unkno wn	7	87179 470	87179 470	SNP	C	C	T	rs347 67983	10	0	0	0	0	250	171	78	NA	0.00 885 2	0.00 046 5	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	G	novel	23	0	0	0	0	201	60	78	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	1	0	0	0	0	230	135	19	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GT	GT	novel	4	0	0	0	0	250	6	181	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	32	0	0	0	0	154	72	14	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	33	0	0	0	0	149	43	42	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	38	0	0	0	0	100	28	8	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	40	0	0	0	0	148	76	16	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	41	0	0	0	0	246	77	72	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	17	0	0	0	0	136	33	36	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	19	0	0	0	0	40	13	9	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	20	0	0	0	0	175	74	17	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	26	0	0	0	0	185	101	17	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	27	0	0	0	0	188	101	21	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	28	0	0	0	0	131	56	13	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	29	0	0	0	0	63	25	11	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GTT	GT	novel	30	0	0	0	0	129	28	46	NA	0	0	0
Unkno wn	7	87323 416	87323 418	DEL	GTT	GT	GT	novel	49	0	0	0	0	248	8	178	NA	0	0	0
Unkno wn	7	87329 899	87329 899	INS	A	A	AT	novel	3	0	0	0	0	238	114	78	NA	0.01 008 4	0.01 284 2	0
Unkno wn	7	87329 899	87329 899	INS	A	A	AT	novel	10	0	0	0	0	249	186	26	NA	0.01 008 4	0.01 284 2	0
Unkno wn	7	98514 997	98514 997	SNP	G	G	A	rs117 61890 8	10	0	0	0	0	250	213	37	NA	0.00 227	0.00 720 9	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	3	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	4	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	6	0	0	0	0	205	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	7	0	0	0	0	114	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	9	0	0	0	0	181	0	0	NA	0	0	0

Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	14	0	0	0	0	202	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	15	0	0	0	0	129	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	32	0	0	0	0	125	0	3	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	33	0	0	0	0	97	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	34	0	0	0	0	70	0	3	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	35	0	0	0	0	109	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	36	0	0	0	0	135	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	37	0	0	0	0	64	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	38	0	0	0	0	71	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	39	0	0	0	0	91	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	40	0	0	0	0	82	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	41	0	0	0	0	129	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	42	0	0	0	0	111	0	2	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	16	0	0	0	0	118	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	18	0	0	0	0	86	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	19	0	0	0	0	31	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	21	0	0	0	0	102	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	20	0	0	0	0	91	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	23	0	0	0	0	117	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	24	0	0	0	0	156	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	25	0	0	0	0	109	0	3	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	26	0	0	0	0	128	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	27	0	0	0	0	107	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	28	0	0	0	0	65	0	0	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	29	0	0	0	0	73	0	3	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	30	0	0	0	0	68	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	31	0	0	0	0	86	0	1	NA	0	0	0
Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	46	0	0	0	0	222	0	0	NA	0	0	0

Unkno wn	7	98522 627	98522 628	DEL	CA	CA	C	novel	47	0	0	0	0	244	0	0	NA	0	0	0
Unkno wn	7	98546 928	98546 928	SNP	G	G	A	novel	13	0	0	0	0	238	197	41	NA	0	0	0
Unkno wn	7	98546 930	98546 930	SNP	G	G	A	novel	13	0	0	0	0	243	195	46	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	C	CTG	novel	13	0	0	0	0	199	8	13	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	C	novel	19	0	0	0	0	50	19	2	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	CTG	novel	6	0	0	0	0	172	13	42	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	C	CTG	novel	13	0	0	0	0	199	8	59	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	CTG	novel	14	0	0	0	0	165	30	4	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	CTG	novel	33	0	0	0	0	130	14	12	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	CTG	novel	36	0	0	0	0	224	60	8	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	CTG	novel	16	0	0	0	0	154	40	5	NA	0	0	0
Unkno wn	7	98548 682	98548 686	DEL	CTGTG	CTGTG	CTG	novel	45	0	0	0	0	237	31	38	NA	0	0	0
Unkno wn	7	98550 696	98550 704	DEL	GTGTGTGTT	GTGTGTGTT	G	novel	39	0	0	0	0	96	59	31	NA	0	0	0
Unkno wn	7	98550 696	98550 704	DEL	GTGTGTGTT	GTGTGTGTT	G	novel	25	0	0	0	0	98	88	5	NA	0	0	0
Unkno wn	7	98552 710	98552 710	SNP	C	C	T	ss459 84342 3	10	0	0	0	0	250	211	39	NA	0.00 204 3	0.01 220 9	0
TRRAP	7	98552 750	98552 750	SNP	A	A	G	rs341 11364	29	c.A5739G	p.A1913 A	NM_00 124458 0	exon40	92	79	13	NA	0.00 045 4	0.00 244 2	0
Unkno wn	7	98559 160	98559 160	SNP	T	T	C	rs795 19823	10	0	0	0	0	213	145	67	NA	0	0	0
Unkno wn	7	98559 177	98559 177	SNP	C	C	T	rs149 07794 0	10	0	0	0	0	200	125	74	NA	0	0	0
Unkno wn	7	98569 331	98569 331	SNP	A	A	G	novel	29	0	0	0	0	70	60	10	NA	0	0	0
Unkno wn	7	98576 617	98576 617	SNP	C	C	T	rs116 86515 4	29	0	0	0	0	66	40	26	NA	0	0	0
Unkno wn	7	98603 040	98603 040	SNP	C	C	T	novel	16	0	0	0	0	103	67	36	NA	0	0	0
SMO	7	12882 9039	12882 9039	INS	G	G	GGCT	novel	33	c.47_48ins GCT	p.G16de linsGL	NM_00 5631	exon1	142	47	32	NA	0.00 584 8	0.02 807 5	2
SMO	7	12882 9039	12882 9039	INS	G	G	GGCT	novel	24	c.47_48ins GCT	p.G16de linsGL	NM_00 5631	exon1	132	37	44	NA	0.00 584 8	0.02 807 5	2
SMO	7	12884 3277	12884 3277	SNP	C	C	T	rs455 71737	40	c.C384T	p.A128A	NM_00 5631	exon2	237	149	88	NA	0.00 114	0.01 284 1	0
SMO	7	12884 3277	12884 3277	SNP	C	C	T	rs455 71737	20	c.C384T	p.A128A	NM_00 5631	exon2	140	121	19	NA	0.00 114	0.01 284 1	0

SMO	7	12884 6367	12884 6367	SNP	G	G	C	rs117 66382 5	20	c.G1203C	p.A401A	NM_00 5631	exon6	106	89	17	NA	0.00 068 1	0.00 662 8	1
Unkno wn	7	12885 0160	12885 0160	SNP	G	G	A	ss459 98188 3	20	0	0	0	0	132	114	18	NA	0.00 068 1	0.00 569 8	0
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	3	0	0	0	0	177	96	17	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	10	0	0	0	0	167	36	67	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	13	0	0	0	0	144	58	44	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	32	0	0	0	0	168	89	23	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	38	0	0	0	0	129	40	20	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	42	0	0	0	0	186	59	54	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	19	0	0	0	0	45	25	8	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	20	0	0	0	0	141	58	25	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	23	0	0	0	0	129	36	47	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	28	0	0	0	0	93	49	15	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	29	0	0	0	0	101	39	21	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	30	0	0	0	0	98	31	25	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	43	0	0	0	0	170	43	58	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	INS	CA	CA	CAA	novel	50	0	0	0	0	182	57	52	NA	0	0	1
Unkno wn	7	14043 4574	14043 4575	DEL	CA	CA	C	novel	11	0	0	0	0	52	15	16	NA	0	0	0
Unkno wn	7	14043 4574	14043 4575	DEL	CA	CA	C	novel	37	0	0	0	0	97	47	12	NA	0	0	0
Unkno wn	7	14043 4574	14043 4575	DEL	CA	CA	C	novel	39	0	0	0	0	156	92	22	NA	0	0	0
Unkno wn	7	14043 4574	14043 4575	DEL	CA	CA	C	novel	40	0	0	0	0	140	78	14	NA	0	0	0
Unkno wn	7	14043 4574	14043 4575	DEL	CA	CA	C	novel	16	0	0	0	0	139	78	16	NA	0	0	0
Unkno wn	7	14043 4574	14043 4575	DEL	CA	CA	C	novel	18	0	0	0	0	131	53	18	NA	0	0	0
Unkno wn	7	14043 4586	14043 4586	SNP	G	G	C	novel	1	0	0	0	0	130	77	19	NA	0	0	0
Unkno wn	7	14043 4586	14043 4586	SNP	G	G	C	novel	4	0	0	0	0	199	125	36	NA	0	0	0
Unkno wn	7	14043 4586	14043 4586	SNP	G	G	C	novel	5	0	0	0	0	153	112	23	NA	0	0	0
Unkno wn	7	14043 4586	14043 4586	SNP	G	G	C	novel	6	0	0	0	0	147	85	34	NA	0	0	0
Unkno wn	7	14043 4586	14043 4586	SNP	G	G	C	novel	14	0	0	0	0	152	94	25	NA	0	0	0

BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	1	c.T1799A	p.V600E	NM_00 4333	exon15	248	192	55	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	3	c.T1799A	p.V600E	NM_00 4333	exon15	248	222	26	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	5	c.T1799A	p.V600E	NM_00 4333	exon15	250	201	49	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	10	c.T1799A	p.V600E	NM_00 4333	exon15	247	211	36	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	11	c.T1799A	p.V600E	NM_00 4333	exon15	75	67	8	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	12	c.T1799A	p.V600E	NM_00 4333	exon15	250	226	24	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	14	c.T1799A	p.V600E	NM_00 4333	exon15	247	224	23	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	15	c.T1799A	p.V600E	NM_00 4333	exon15	173	151	22	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	36	c.T1799A	p.V600E	NM_00 4333	exon15	230	157	73	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	38	c.T1799A	p.V600E	NM_00 4333	exon15	79	69	10	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	39	c.T1799A	p.V600E	NM_00 4333	exon15	140	108	32	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	40	c.T1799A	p.V600E	NM_00 4333	exon15	144	122	22	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	42	c.T1799A	p.V600E	NM_00 4333	exon15	250	227	23	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	16	c.T1799A	p.V600E	NM_00 4333	exon15	177	134	42	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	18	c.T1799A	p.V600E	NM_00 4333	exon15	120	98	22	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	21	c.T1799A	p.V600E	NM_00 4333	exon15	177	138	39	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	20	c.T1799A	p.V600E	NM_00 4333	exon15	141	128	13	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	24	c.T1799A	p.V600E	NM_00 4333	exon15	250	185	65	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	25	c.T1799A	p.V600E	NM_00 4333	exon15	203	187	16	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	27	c.T1799A	p.V600E	NM_00 4333	exon15	183	163	19	possibly_ damaging	0	0	197 94

BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	30	c.T1799A	p.V600E	NM_00 4333	exon15	172	141	31	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	43	c.T1799A	p.V600E	NM_00 4333	exon15	245	175	70	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	45	c.T1799A	p.V600E	NM_00 4333	exon15	249	212	37	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	46	c.T1799A	p.V600E	NM_00 4333	exon15	249	220	29	possibly_ damaging	0	0	197 94
BRAF	7	14045 3136	14045 3136	SNP	A	A	T	rs113 48802 2	48	c.T1799A	p.V600E	NM_00 4333	exon15	165	149	16	possibly_ damaging	0	0	197 94
Unkno wn	7	14047 7756	14047 7756	SNP	C	C	G	rs716 45981	10	0	0	0	0	250	159	90	NA	0.00 340 6	0.02 395 3	0
Unkno wn	7	14047 7894	14047 7894	SNP	T	T	C	novel	10	0	0	0	0	248	156	92	NA	0.00 022 7	0.00 197 7	0
CHD7	8	61707 572	61707 572	SNP	T	T	C	rs793 02359	30	c.T2124C	p.S708S	NM_01 7780	exon4	203	131	72	NA	0.05 473 5	0.00 429 4	0
CHD7	8	61769 418	61769 418	SNP	A	A	C	ss460 45971 5	10	c.A7579C	p.M252 7L	NM_01 7780	exon34	250	171	79	NA	0.00 119 3	0.00 508 4	0
MYC	8	12875 0527	12875 0527	SNP	T	T	C	rs146 50519 2	20	c.T64C	p.F22L	NM_00 2467	exon2	203	136	67	benign	0.00 022 7	0.00 337 2	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	4	0	0	0	0	249	0	3	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	5	0	0	0	0	249	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	7	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	8	0	0	0	0	249	0	2	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	9	0	0	0	0	249	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	11	0	0	0	0	81	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	13	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	14	0	0	0	0	248	0	3	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	34	0	0	0	0	219	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	41	0	0	0	0	249	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	16	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	C	C	novel	19	0	0	0	0	73	0	3	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	22	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	20	0	0	0	0	246	0	3	NA	0	0	0

Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	44	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	46	0	0	0	0	247	0	0	NA	0	0	0
Unkno wn	8	12875 1846	12875 1847	DEL	CT	CT	C	novel	47	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	5	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	6	0	0	0	0	249	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	11	0	0	0	0	91	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	13	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	14	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	32	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	36	0	0	0	0	249	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	37	0	0	0	0	210	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	39	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	42	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	16	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	17	0	0	0	0	215	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	21	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	22	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	25	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	26	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	27	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	28	0	0	0	0	199	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	31	0	0	0	0	230	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	INS	AT	AT	ATT	novel	47	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	4	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	7	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	8	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	9	0	0	0	0	249	0	3	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	15	0	0	0	0	248	0	1	NA	0	0	0

Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	34	0	0	0	0	196	0	3	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	35	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	38	0	0	0	0	176	0	1	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	40	0	0	0	0	245	0	8	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	41	0	0	0	0	248	0	5	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	19	0	0	0	0	61	0	8	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	20	0	0	0	0	189	0	19	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	29	0	0	0	0	195	0	3	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	30	0	0	0	0	250	0	4	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	44	0	0	0	0	250	0	3	NA	0	0	0
Unkno wn	8	12875 1902	12875 1903	DEL	AT	AT	A	novel	46	0	0	0	0	249	0	4	NA	0	0	0
Unkno wn	8	12875 1916	12875 1916	SNP	A	A	T	novel	11	0	0	0	0	83	67	16	NA	0	0	0
Unkno wn	8	12875 1916	12875 1916	SNP	A	A	T	novel	34	0	0	0	0	174	151	18	NA	0	0	0
Unkno wn	8	12875 1916	12875 1916	SNP	A	A	T	novel	38	0	0	0	0	155	126	29	NA	0	0	0
Unkno wn	8	12875 1916	12875 1916	SNP	A	A	T	novel	19	0	0	0	0	52	43	9	NA	0	0	0
Unkno wn	8	12875 1916	12875 1916	SNP	A	A	T	novel	20	0	0	0	0	174	146	28	NA	0	0	0
Unkno wn	8	12875 1916	12875 1916	SNP	A	A	T	novel	29	0	0	0	0	169	135	34	NA	0	0	0
Unkno wn	8	12875 2212	12875 2213	INS	CT	CT	CTT	novel	10	0	0	0	0	232	0	24	NA	0	0	0
Unkno wn	8	12875 2212	12875 2213	INS	CT	CT	CTT	novel	16	0	0	0	0	228	0	26	NA	0	0	0
Unkno wn	8	12875 2212	12875 2213	INS	CT	CTT	C	novel	19	0	0	0	0	60	0	7	NA	0	0	0
Unkno wn	8	12875 2212	12875 2213	INS	CT	CT	CTTTT	novel	20	0	0	0	0	177	0	14	NA	0	0	0
Unkno wn	8	12875 2212	12875 2213	INS	CT	CT	CTTTT	novel	46	0	0	0	0	243	0	7	NA	0	0	0
JAK2	9	51263 43	51263 43	SNP	G	G	A	rs413 16003	10	c.G3188A	p.R1063 H	NM_00 4972	exon24	248	166	81	possibly_ damaging	0.00 181 6	0.00 558 3	0
Unkno wn	9	51269 13	51269 13	SNP	G	G	A	rs413 14565	19	0	0	0	0	35	21	14	NA	0	0	0
Unkno wn	9	80343 587	80343 588	DEL	GA	GA	G	novel	38	0	0	0	0	81	0	0	NA	0.14 47	0.04 459 5	0
Unkno wn	9	98212 245	98212 245	SNP	G	G	A	novel	10	0	0	0	0	205	127	78	NA	0	0	0
PTCH1	9	98244 242	98244 242	SNP	T	T	C	rs180 5154	10	c.A735G	p.T245T	NM_00 0264	exon5	250	151	98	NA	0.00 680 9	0.03 825 6	0

PTCH1	9	98268 765	98268 765	SNP	G	G	A	rs180 5153	2	c.C318T	p.L106L	NM_00 0264	exon2	250	150	99	NA	0.00 522	0.02 674 4	0
Unkno wn	9	98279 188	98279 188	SNP	T	T	A	rs142 76197 1	10	0	0	0	0	246	218	28	NA	0	0	0
Unkno wn	9	11598 5607	11598 5609	DEL	TAA	T	TA	novel	14	0	0	0	0	157	0	0	NA	0	0	0
Unkno wn	9	11598 5607	11598 5609	DEL	TAA	T	TA	novel	34	0	0	0	0	39	0	0	NA	0	0	0
Unkno wn	9	11598 5607	11598 5609	DEL	TAA	TAA	T	novel	19	0	0	0	0	41	0	0	NA	0	0	0
Unkno wn	9	11598 5607	11598 5609	DEL	TAA	T	TA	novel	31	0	0	0	0	86	0	0	NA	0	0	0
Unkno wn	9	11598 5607	11598 5609	DEL	TAA	T	TA	novel	43	0	0	0	0	140	0	0	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	T	novel	26	0	0	0	0	139	0	8	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	T	novel	29	0	0	0	0	72	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	2	0	0	0	0	176	0	6	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	3	0	0	0	0	207	0	2	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	5	0	0	0	0	181	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACACAC	TAC	novel	11	0	0	0	0	39	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	12	0	0	0	0	165	0	4	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACACAC	TAC	novel	15	0	0	0	0	101	0	11	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	33	0	0	0	0	95	0	4	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	35	0	0	0	0	151	0	4	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	36	0	0	0	0	232	0	8	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	37	0	0	0	0	113	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	38	0	0	0	0	123	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	39	0	0	0	0	135	0	13	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	40	0	0	0	0	108	0	6	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	41	0	0	0	0	138	0	11	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	16	0	0	0	0	115	0	7	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	17	0	0	0	0	81	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	18	0	0	0	0	124	0	7	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	21	0	0	0	0	155	0	9	NA	0	0	0

Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	23	0	0	0	0	119	0	8	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	24	0	0	0	0	202	0	9	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACACAC	TAC	novel	25	0	0	0	0	142	0	5	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	28	0	0	0	0	78	0	4	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	30	0	0	0	0	96	0	3	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	45	0	0	0	0	183	0	4	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	46	0	0	0	0	228	0	6	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	47	0	0	0	0	219	0	4	NA	0	0	0
Unkno wn	9	11602 2860	11602 2864	DEL	TACAC	TACAC	TAC	novel	50	0	0	0	0	218	0	11	NA	0	0	0
ABL1	9	13375 9717	13375 9717	SNP	C	C	T	novel	13	c.C2097T	p.G699 G	NM_00 7313	exon11	246	147	98	NA	0.00 091 8	0.00 258 6	0
ABL1	9	13375 9793	13375 9793	SNP	G	G	A	rs143 83730 1	13	c.G2173A	p.G725S	NM_00 7313	exon11	245	156	89	benign	0.00 091	0.00 210 1	0
Unkno wn	9	13731 4232	13731 4232	SNP	C	C	T	novel	46	0	0	0	0	249	151	87	NA	0	0	0
NOTC H1	9	13940 0219	13940 0219	SNP	G	G	A	rs617 51542	19	c.C4129T	p.P1377 S	NM_01 7617	exon25	31	19	12	benign	0.00 301 9	0.02 341 4	0
NOTC H1	9	13940 0219	13940 0219	SNP	G	G	A	rs617 51542	20	c.C4129T	p.P1377 S	NM_01 7617	exon25	87	62	25	benign	0.00 301 9	0.02 341 4	0
NOTC H1	9	13940 1216	13940 1216	SNP	C	C	T	novel	29	c.G3853A	p.V1285 M	NM_01 7617	exon23	75	65	10	possibly_ damaging	0	0	0
NOTC H1	9	13940 1233	13940 1233	SNP	C	C	T	rs617 51543	10	c.G3836A	p.R1279 H	NM_01 7617	exon23	250	182	68	probably_ damaging	0.00 398 3	0.02 314	0
NOTC H1	9	13940 1233	13940 1233	SNP	C	C	T	rs617 51543	29	c.G3836A	p.R1279 H	NM_01 7617	exon23	68	45	23	probably_ damaging	0.00 398 3	0.02 314	0
NOTC H1	9	13941 8386	13941 8386	SNP	C	C	G	novel	29	c.G186C	p.P62P	NM_01 7617	exon3	44	39	5	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	1	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	2	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	3	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	4	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	5	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	6	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	8	0	0	0	0	188	0	1	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	9	0	0	0	0	250	0	0	NA	0	0	0

Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	10	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	11	0	0	0	0	34	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	A	A	novel	12	0	0	0	0	245	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	14	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	32	0	0	0	0	184	0	2	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	33	0	0	0	0	206	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	36	0	0	0	0	249	0	1	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	38	0	0	0	0	78	0	1	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	41	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	19	0	0	0	0	19	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	21	0	0	0	0	153	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	24	0	0	0	0	177	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	ATT	A	novel	26	0	0	0	0	147	0	1	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	27	0	0	0	0	213	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	28	0	0	0	0	73	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	29	0	0	0	0	50	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	46	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	47	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	10	43595 836	43595 837	DEL	AT	AT	A	novel	48	0	0	0	0	107	0	1	NA	0	0	0
Unkno wn	10	43595 836	43595 837	INS	AT	ATT	ATTT	novel	45	0	0	0	0	247	0	3	NA	0	0	0
RET	10	43597 827	43597 827	SNP	C	C	A	rs180 0859	29	c.C375A	p.V125V	NM_02 0975	exon3	52	39	12	NA	0.00 272 4	0.01 186	0
RET	10	43597 857	43597 857	SNP	C	C	T	rs142 34510 8	13	c.C405T	p.G135 G	NM_02 0975	exon3	250	163	87	NA	0.00 158 9	0	0
Unkno wn	10	89690 752	89690 752	SNP	C	C	T	novel	11	0	0	0	0	45	35	9	NA	0	0	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	5	0	0	0	0	204	0	0	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	8	0	0	0	0	218	0	1	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	10	0	0	0	0	230	0	2	NA	0.12 891	0.14 558 7	0

Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	11	0	0	0	0	65	0	1	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	18	0	0	0	0	97	0	1	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	21	0	0	0	0	162	0	0	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	22	0	0	0	0	190	0	0	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	24	0	0	0	0	234	0	5	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	26	0	0	0	0	163	0	7	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 633	89720 634	INS	CT	CT	CTT	novel	43	0	0	0	0	171	0	2	NA	0.12 891	0.14 558 7	0
Unkno wn	10	89720 639	89720 639	SNP	T	T	C	novel	20	0	0	0	0	131	79	51	NA	0	0	0
CYP2C 19	10	96522 463	96522 463	SNP	A	A	G	rs283 99504	20	c.A1G	p.M1V	NM_00 0769	exon1	153	95	58	benign	0.00 022 7	0.00 325 6	0
CYP2C 19	10	96541 646	96541 646	SNP	T	T	C	novel	37	c.T711C	p.L237L	NM_00 0769	exon5	53	33	20	NA	0	0	0
ABCC2	10	10156 0169	10156 0169	SNP	G	G	A	rs708 0681	49	c.G1058A	p.R353H	NM_00 0392	exon9	250	153	97	benign	0.05 129 4	0.00 011 6	0
ABCC2	10	10156 9909	10156 9909	SNP	C	C	T	novel	13	c.C1834T	p.R612 W	NM_00 0392	exon14	250	220	30	probably_ damaging	0	0	0
Unkno wn	10	11276 7157	11276 7157	SNP	C	C	T	novel	11	0	0	0	0	53	34	17	NA	0	0	0
Unkno wn	11	53249 7	53249 7	SNP	C	C	T	novel	19	0	0	0	0	17	12	5	NA	0	0	0
Unkno wn	11	53249 7	53249 7	SNP	C	C	T	novel	20	0	0	0	0	53	34	19	NA	0	0	0
Unkno wn	11	32412 509	32412 510	DEL	AT	AT	A	novel	10	0	0	0	0	228	131	67	NA	0	0	0
Unkno wn	11	32412 509	32412 510	DEL	AT	AT	A	novel	11	0	0	0	0	47	24	16	NA	0	0	0
Unkno wn	11	32412 509	32412 510	DEL	AT	AT	A	novel	38	0	0	0	0	91	38	35	NA	0	0	0
Unkno wn	11	32412 509	32412 510	DEL	AT	AT	A	novel	40	0	0	0	0	179	83	70	NA	0	0	0
Unkno wn	11	32412 509	32412 510	DEL	AT	AT	A	novel	17	0	0	0	0	146	79	46	NA	0	0	0
Unkno wn	11	32414 518	32414 519	INS	TA	TA	TAA	novel	4	0	0	0	0	239	0	22	NA	0	0	0
Unkno wn	11	32414 518	32414 519	INS	TA	TA	TAA	novel	6	0	0	0	0	226	0	26	NA	0	0	0
Unkno wn	11	32414 518	32414 519	INS	TA	TA	TAA	novel	34	0	0	0	0	57	0	7	NA	0	0	0
Unkno wn	11	32414 518	32414 519	INS	TA	TA	TAA	novel	41	0	0	0	0	188	0	25	NA	0	0	0
Unkno wn	11	32414 518	32414 519	INS	TA	TA	TAA	novel	17	0	0	0	0	110	0	12	NA	0	0	0

Unkno wn	11	32414 518	32414 519	INS	TA	TA	TAA	novel	25	0	0	0	0	105	0	17	NA	0	0	0
Unkno wn	11	32417 023	32417 024	INS	CT	CT	CTT	novel	37	0	0	0	0	93	0	0	NA	0	0	0
Unkno wn	11	32417 023	32417 024	INS	CT	CT	CTT	novel	21	0	0	0	0	157	0	5	NA	0	0	0
Unkno wn	11	32417 023	32417 024	INS	CT	CT	CTT	novel	25	0	0	0	0	146	0	3	NA	0	0	0
Unkno wn	11	32417 023	32417 024	INS	CT	CT	CTT	novel	48	0	0	0	0	94	0	2	NA	0	0	0
Unkno wn	11	32417 307	32417 308	DEL	CT	CT	C	novel	2	0	0	0	0	250	0	0	NA	0.12 839 2	0.15 123 5	0
Unkno wn	11	32417 307	32417 308	DEL	CT	CT	C	novel	11	0	0	0	0	41	0	1	NA	0.12 839 2	0.15 123 5	0
Unkno wn	11	32417 307	32417 308	DEL	CT	CT	C	novel	19	0	0	0	0	45	0	0	NA	0.12 839 2	0.15 123 5	0
Unkno wn	11	32417 307	32417 308	DEL	CT	C	C	novel	28	0	0	0	0	107	0	0	NA	0.12 839 2	0.15 123 5	0
Unkno wn	11	32417 307	32417 308	DEL	CT	CT	C	novel	45	0	0	0	0	246	0	1	NA	0.12 839 2	0.15 123 5	0
Unkno wn	11	32417 307	32417 308	DEL	CT	CT	C	novel	46	0	0	0	0	250	0	1	NA	0.12 839 2	0.15 123 5	0
Unkno wn	11	32417 307	32417 308	DEL	CT	C	C	novel	50	0	0	0	0	250	0	1	NA	0.12 839 2	0.15 123 5	0
WT1	11	32456 484	32456 484	INS	A	A	AGGC	novel	18	c.408_409 insGCC	p.P136d elinsPP	NM_02 4426	exon1	127	55	42	NA	0	0	0
Unkno wn	11	67353 823	67353 823	SNP	T	T	C	novel	12	0	0	0	0	250	211	36	NA	0	0	0
Unkno wn	11	10810 0105	10810 0105	INS	G	GT	GTT	novel	3	0	0	0	0	205	0	0	NA	0	0	0
Unkno wn	11	10810 0105	10810 0105	INS	G	GT	GTT	novel	41	0	0	0	0	123	0	0	NA	0	0	0
Unkno wn	11	10810 0105	10810 0105	INS	G	G	GTT	novel	42	0	0	0	0	130	0	0	NA	0	0	0
Unkno wn	11	10810 0105	10810 0105	INS	G	G	GTT	novel	21	0	0	0	0	103	0	0	NA	0	0	0
Unkno wn	11	10810 0105	10810 0105	INS	G	GT	GTT	novel	23	0	0	0	0	110	0	0	NA	0	0	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	4	0	0	0	0	250	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	9	0	0	0	0	250	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	10	0	0	0	0	250	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	32	0	0	0	0	169	0	1	NA	0.14 451 4	0.10 411 5	0

Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	34	0	0	0	0	85	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	38	0	0	0	0	41	0	1	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	39	0	0	0	0	147	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	17	0	0	0	0	94	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	19	0	0	0	0	25	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	29	0	0	0	0	61	0	1	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 1410	10812 1411	DEL	CT	CT	C	novel	44	0	0	0	0	250	0	0	NA	0.14 451 4	0.10 411 5	0
Unkno wn	11	10812 4531	10812 4531	SNP	T	T	G	novel	13	0	0	0	0	250	167	83	NA	0	0	0
Unkno wn	11	10814 1955	10814 1958	INS	CTTT	CTTT	CTTTT	novel	50	0	0	0	0	250	0	29	NA	0	0	0
Unkno wn	11	10814 1955	10814 1958	DEL	CTTT	CTTT	C	novel	19	0	0	0	0	50	0	0	NA	0	0	0
Unkno wn	11	10815 1707	10815 1707	INS	T	TT	TA	novel	46	0	0	0	0	250	3	98	NA	0.15 789 5	0.00 182	0
Unkno wn	11	10816 8126	10816 8126	SNP	C	C	G	novel	38	0	0	0	0	61	41	20	NA	0	0.00 011 6	0
ATM	11	10817 5463	10817 5463	SNP	A	A	T	rs180 1673	37	c.A5558T	p.D1853 V	NM_00 0051	exon37	90	56	34	probably_ damaging	0.00 090 9	0.00 686 4	1
MLL	11	11834 4839	11834 4839	SNP	C	C	T	rs139 98930 6	10	c.C2965T	p.L989F	NM_00 119710 4	exon3	250	166	84	benign	0.00 022 7	0.00 151 3	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	5	0	0	0	0	189	0	3	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	7	0	0	0	0	119	0	1	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	8	0	0	0	0	174	0	4	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	15	0	0	0	0	130	0	3	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	33	0	0	0	0	80	0	4	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	37	0	0	0	0	68	0	2	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	38	0	0	0	0	123	0	7	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	39	0	0	0	0	98	0	3	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	40	0	0	0	0	98	0	5	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	42	0	0	0	0	121	0	3	NA	0	0	0

Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	19	0	0	0	0	40	0	8	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	21	0	0	0	0	89	0	5	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	20	0	0	0	0	135	0	12	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	24	0	0	0	0	135	0	5	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	AAAGA	A	novel	26	0	0	0	0	100	0	4	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	27	0	0	0	0	132	0	4	NA	0	0	0
Unkno wn	11	11835 3479	11835 3483	DEL	AAAGA	A	AA	novel	30	0	0	0	0	73	0	1	NA	0	0	0
Unkno wn	11	11835 6244	11835 6244	INS	T	T	TG	novel	10	0	0	0	0	250	148	94	NA	0	0	0
Unkno wn	11	11835 6641	11835 6642	DEL	CA	CA	C	novel	1	0	0	0	0	58	25	19	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	9	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	32	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	33	0	0	0	0	206	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	34	0	0	0	0	149	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	35	0	0	0	0	246	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	36	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	37	0	0	0	0	122	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	39	0	0	0	0	209	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	40	0	0	0	0	162	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	42	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	16	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	21	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	22	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	23	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	26	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	27	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	30	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7090	11835 7090	INS	G	GT	GTT	novel	49	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	11	11835 7425	11835 7426	DEL	TA	TA	T	novel	25	0	0	0	0	35	24	4	NA	0	0	0

Unkno wn	11	11835 7425	11835 7426	DEL	TA	TA	T	novel	28	0	0	0	0	39	29	4	NA	0	0	0
MLL	11	11836 3834	11836 3834	SNP	C	C	G	novel	40	c.C5067G	p.P1689 P	NM_00 119710 4	exon16	105	65	39	NA	0	0	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	1	0	0	0	0	200	0	17	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	2	0	0	0	0	214	0	13	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	3	0	0	0	0	215	0	18	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	4	0	0	0	0	223	0	19	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	5	0	0	0	0	223	0	11	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	6	0	0	0	0	197	0	15	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	7	0	0	0	0	178	0	15	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	8	0	0	0	0	186	0	16	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	9	0	0	0	0	215	0	26	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	10	0	0	0	0	222	0	20	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	11	0	0	0	0	65	0	11	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	37	0	0	0	0	103	0	12	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	39	0	0	0	0	171	0	20	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	40	0	0	0	0	135	0	12	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	16	0	0	0	0	197	0	23	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	21	0	0	0	0	193	0	17	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	22	0	0	0	0	213	0	21	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	24	0	0	0	0	236	0	21	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	25	0	0	0	0	213	0	28	NA	0.19 158 4	0.14 393	0

Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	28	0	0	0	0	116	0	12	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	30	0	0	0	0	190	0	22	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	45	0	0	0	0	209	0	18	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	46	0	0	0	0	218	0	12	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11836 9265	11836 9266	INS	TA	TA	TAA	novel	49	0	0	0	0	241	0	21	NA	0.19 158 4	0.14 393	0
Unkno wn	11	11837 2333	11837 2333	SNP	G	G	T	novel	11	0	0	0	0	30	21	9	NA	0	0	0
MLL	11	11837 8284	11837 8284	SNP	G	G	A	novel	36	c.G10795A	p.V3599 M	NM_00 119710 4	exon28	243	185	58	benign	0	0	0
Unkno wn	11	11914 4791	11914 4793	DEL	CTT	CTT	C	novel	20	0	0	0	0	191	0	1	NA	0	0	0
Unkno wn	11	11914 4791	11914 4793	DEL	CTT	CTT	C	novel	29	0	0	0	0	70	0	0	NA	0	0	0
Unkno wn	11	11914 4809	11914 4809	SNP	A	A	T	novel	11	0	0	0	0	31	21	10	NA	0	0	0
Unkno wn	12	21327 652	21327 653	INS	TA	TA	TAAA	novel	4	0	0	0	0	250	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TAA	TAAA	novel	5	0	0	0	0	246	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TA	TAAA	novel	13	0	0	0	0	224	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TAA	TAAA	novel	36	0	0	0	0	241	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TAA	TAAA	novel	42	0	0	0	0	240	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TAA	TAAA	novel	27	0	0	0	0	248	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TAA	TAAA	novel	29	0	0	0	0	65	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	INS	TA	TAA	TAAA	novel	46	0	0	0	0	247	0	0	NA	0.05 255 7	0.09 607 5	0
Unkno wn	12	21327 652	21327 653	DEL	TA	TA	T	novel	38	0	0	0	0	63	0	1	NA	0.09 221	0.04 967 3	0
Unkno wn	12	21327 652	21327 653	DEL	TA	TA	T	novel	24	0	0	0	0	249	0	0	NA	0.09 221	0.04 967 3	0
Unkno wn	12	21375 305	21375 305	INS	T	T	TG	novel	13	0	0	0	0	67	39	19	NA	0	0	0
Unkno wn	12	21375 305	21375 305	INS	T	T	TG	novel	31	0	0	0	0	39	19	10	NA	0	0	0

Unkno wn	12	21375 307	21375 307	SNP	A	A	G	rs715 77817	31	0	0	0	0	35	23	7	NA	0	0	0
NELL2	12	45059 310	45059 310	SNP	G	G	C	rs138 45472 9	13	c.C1551G	p.I517M	NM_00 114510 7	exon14	250	153	97	benign	0.00 022 7	0.00 174 4	0
Unkno wn	12	56492 195	56492 197	DEL	CAA	CAA	C	novel	17	0	0	0	0	45	0	0	NA	0	0	0
Unkno wn	12	56492 195	56492 197	DEL	CAA	CAA	C	novel	28	0	0	0	0	39	0	1	NA	0	0	0
Unkno wn	12	56492 195	56492 197	DEL	CAA	CAA	C	novel	29	0	0	0	0	34	0	0	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	32	0	0	0	0	213	2	4	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	42	0	0	0	0	222	0	7	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	18	0	0	0	0	207	0	8	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	23	0	0	0	0	222	0	7	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	24	0	0	0	0	224	0	8	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	27	0	0	0	0	233	1	5	NA	0	0	0
Unkno wn	12	12143 4630	12143 4630	INS	C	CTCAT	CTCATT	novel	29	0	0	0	0	52	0	5	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	2	0	0	0	0	142	75	67	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	A	T	rs321 3547	13	0	0	0	0	97	19	40	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	38	0	0	0	0	52	23	29	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	39	0	0	0	0	47	34	13	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	16	0	0	0	0	32	15	17	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	29	0	0	0	0	13	7	6	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	48	0	0	0	0	47	21	25	NA	0	0	0
Unkno wn	12	12143 5181	12143 5181	SNP	G	G	T	rs321 3547	49	0	0	0	0	116	53	63	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	G	GA	novel	36	0	0	0	0	168	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	3	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	4	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	6	0	0	0	0	209	0	3	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	9	0	0	0	0	226	0	4	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	15	0	0	0	0	123	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	G	GA	novel	36	0	0	0	0	168	0	5	NA	0	0	0

Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	41	0	0	0	0	161	0	3	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	19	0	0	0	0	29	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	24	0	0	0	0	186	0	4	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	31	0	0	0	0	67	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	43	0	0	0	0	234	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	44	0	0	0	0	217	0	4	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	48	0	0	0	0	75	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GA	GAAAA	novel	50	0	0	0	0	245	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	1	0	0	0	0	250	0	4	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	2	0	0	0	0	250	0	5	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	5	0	0	0	0	250	0	3	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	7	0	0	0	0	89	0	3	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	8	0	0	0	0	175	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	10	0	0	0	0	247	0	25	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	12	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	13	0	0	0	0	185	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	14	0	0	0	0	250	0	4	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	32	0	0	0	0	101	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	33	0	0	0	0	103	0	3	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	34	0	0	0	0	67	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	35	0	0	0	0	139	0	4	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	37	0	0	0	0	65	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	38	0	0	0	0	48	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	39	0	0	0	0	81	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	40	0	0	0	0	89	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	42	0	0	0	0	143	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	16	0	0	0	0	113	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	17	0	0	0	0	69	0	1	NA	0	0	0

Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	18	0	0	0	0	72	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	21	0	0	0	0	106	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	22	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	20	0	0	0	0	64	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	25	0	0	0	0	145	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	26	0	0	0	0	98	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	27	0	0	0	0	168	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	28	0	0	0	0	73	0	2	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	29	0	0	0	0	46	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	30	0	0	0	0	71	0	1	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	45	0	0	0	0	211	0	3	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	46	0	0	0	0	225	0	0	NA	0	0	0
Unkno wn	13	28647 489	28647 494	DEL	GAAAAA	GAAA	GAAAA	novel	47	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	13	28942 677	28942 680	INS	TATG	TATG	TATGATG	novel	33	0	0	0	0	166	51	49	NA	0.00 487 3	0.01 356	0
Unkno wn	13	28942 677	28942 680	INS	TATG	TATG	TATGATG	novel	47	0	0	0	0	245	83	72	NA	0.00 487 3	0.01 356	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	4	0	0	0	0	250	102	94	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	8	0	0	0	0	237	93	78	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	34	0	0	0	0	126	65	6	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	38	0	0	0	0	66	21	8	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	17	0	0	0	0	136	76	7	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	20	0	0	0	0	151	94	12	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	28	0	0	0	0	129	76	6	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	29	0	0	0	0	65	35	4	NA	0.11 169 4	0.01 033 1	0
Unkno wn	13	28942 677	28942 680	DEL	TATG	TATG	T	novel	49	0	0	0	0	249	74	76	NA	0.11 169 4	0.01 033 1	0

Unkno wn	13	28942 736	28942 739	DEL	CGAT	CGAT	C	novel	38	0	0	0	0	101	49	27	NA	0.00 801 4	0.01 282 6	0
Unkno wn	13	28980 036	28980 037	DEL	TA	TA	T	novel	11	0	0	0	0	29	20	5	NA	0.02 251 4	0.02 374 6	2
Unkno wn	13	28980 036	28980 037	DEL	TA	TA	T	novel	32	0	0	0	0	158	103	16	NA	0.02 251 4	0.02 374 6	2
Unkno wn	13	28980 036	28980 037	DEL	TA	TA	T	novel	38	0	0	0	0	69	34	11	NA	0.02 251 4	0.02 374 6	2
Unkno wn	13	28980 036	28980 037	DEL	TA	TA	T	novel	39	0	0	0	0	130	87	12	NA	0.02 251 4	0.02 374 6	2
Unkno wn	13	28980 036	28980 037	DEL	TA	TA	T	novel	19	0	0	0	0	24	10	7	NA	0.02 251 4	0.02 374 6	2
Unkno wn	13	28980 036	28980 037	DEL	TA	TA	T	novel	24	0	0	0	0	222	168	20	NA	0.02 251 4	0.02 374 6	2
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	5	0	0	0	0	183	0	0	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	14	0	0	0	0	197	0	0	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	33	0	0	0	0	100	0	1	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	41	0	0	0	0	146	0	1	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	18	0	0	0	0	99	0	0	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	19	0	0	0	0	22	0	1	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	20	0	0	0	0	79	0	1	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	27	0	0	0	0	118	0	1	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	46	0	0	0	0	160	0	0	NA	0	0	0
Unkno wn	13	32949 700	32949 701	DEL	CT	CT	C	novel	49	0	0	0	0	179	0	0	NA	0	0	0
BRCA2	13	32953 550	32953 550	SNP	G	G	A	rs115 71769	29	c.G8851A	p.A2951 T	NM_00 0059	exon22	74	55	19	probably_ damaging	0.00 181 6	0.00 569 8	0
Unkno wn	13	48916 887	48916 887	SNP	A	A	G	rs118 07286 1	13	0	0	0	0	202	180	22	NA	0.00 182	0.00 85	0
Unkno wn	13	48922 984	48922 985	INS	AT	AT	ATT	novel	41	0	0	0	0	245	100	94	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	11	0	0	0	0	64	46	8	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	32	0	0	0	0	250	186	30	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	34	0	0	0	0	142	105	19	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	38	0	0	0	0	72	45	13	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	39	0	0	0	0	205	161	25	NA	0	0	0

Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	16	0	0	0	0	250	189	23	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	19	0	0	0	0	33	16	12	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	20	0	0	0	0	167	113	36	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	26	0	0	0	0	248	179	24	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	29	0	0	0	0	100	69	17	NA	0	0	0
Unkno wn	13	48922 984	48922 985	DEL	AT	AT	A	novel	31	0	0	0	0	176	141	18	NA	0	0	0
Unkno wn	13	48922 995	48922 995	SNP	A	A	T	novel	19	0	0	0	0	52	41	11	NA	0	0	0
Unkno wn	13	48922 996	48922 996	SNP	A	A	T	novel	19	0	0	0	0	53	41	12	NA	0	0	0
LPAR6	13	48985 975	48985 975	SNP	A	A	G	rs223 3573	13	c.T585C	p.I195I	NM_00 116249 8	exon1	250	228	22	NA	0.00 090	0.00 860	0
Unkno wn	13	49054 349	49054 349	SNP	G	G	A	novel	20	0	0	0	0	157	134	23	NA	0	0	0
Unkno wn	13	72249 648	72249 650	DEL	ATT	A	A	novel	4	0	0	0	0	218	0	174	NA	0	0	0
Unkno wn	13	72249 648	72249 650	DEL	ATT	A	AT	novel	39	0	0	0	0	105	1	17	NA	0	0	0
Unkno wn	13	72249 650	72249 650	SNP	T	T	A	rs740 96996	32	0	0	0	0	101	71	30	NA	0	0	0
Unkno wn	13	72249 650	72249 650	SNP	T	T	A	rs740 96996	39	0	0	0	0	107	67	40	NA	0	0	0
Unkno wn	14	64805 291	64805 291	SNP	T	T	C	novel	20	0	0	0	0	111	99	11	NA	0	0	0
Unkno wn	14	64805 384	64805 385	DEL	CT	CT	C	novel	12	0	0	0	0	23	13	8	NA	0	0	0
Unkno wn	14	64805 384	64805 385	DEL	CT	CT	C	novel	23	0	0	0	0	22	12	7	NA	0	0	0
Unkno wn	14	10523 6557	10523 6557	SNP	G	G	A	rs178 46826	38	0	0	0	0	109	72	37	NA	0	0	0
Unkno wn	14	10523 8604	10523 8604	SNP	C	C	T	rs249 8800	10	0	0	0	0	250	174	74	NA	0	0	0
Unkno wn	14	10523 8604	10523 8604	SNP	C	C	T	rs249 8800	11	0	0	0	0	32	24	7	NA	0	0	0
Unkno wn	14	10523 8604	10523 8604	SNP	C	C	T	rs249 8800	13	0	0	0	0	250	211	39	NA	0	0	0
Unkno wn	14	10523 8604	10523 8604	SNP	C	C	T	rs249 8800	19	0	0	0	0	21	18	3	NA	0	0	0
Unkno wn	14	10523 8604	10523 8604	SNP	C	C	T	rs249 8800	24	0	0	0	0	176	113	63	NA	0	0	0
Unkno wn	14	10523 8636	10523 8636	SNP	G	G	A	rs178 46832	38	0	0	0	0	146	79	67	NA	0	0	0
AKT1	14	10523 9367	10523 9367	SNP	G	G	A	rs144 08850 6	13	c.C1020T	p.Y340Y	NM_00 5163	exon11	250	158	92	NA	0.00 068 1	0.00 511 6	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	2	0	0	0	0	250	190	58	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	4	0	0	0	0	250	173	69	NA	0	0	0

Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	12	0	0	0	0	250	184	57	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	35	0	0	0	0	250	198	50	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	37	0	0	0	0	185	144	37	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	16	0	0	0	0	190	153	36	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	23	0	0	0	0	250	206	41	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	24	0	0	0	0	236	187	47	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	28	0	0	0	0	106	83	22	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	43	0	0	0	0	249	193	51	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	46	0	0	0	0	250	189	58	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	47	0	0	0	0	249	173	71	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	49	0	0	0	0	250	189	57	NA	0	0	0
Unkno wn	15	41797 573	41797 573	SNP	T	T	G	novel	50	0	0	0	0	248	161	79	NA	0	0	0
LTK	15	41797 702	41797 702	SNP	C	C	T	novel	40	c.G1724A	p.R575 Q	NM_00 2344	exon14	245	150	95	probably_ damaging	0	0.00 011 6	0
LTK	15	41797 702	41797 702	SNP	C	C	T	novel	20	c.G1724A	p.R575 Q	NM_00 2344	exon14	141	116	25	probably_ damaging	0	0.00 011 6	0
Unkno wn	15	51507 798	51507 799	DEL	TA	TA	T	novel	38	0	0	0	0	53	24	19	NA	0	0	0
Unkno wn	15	90627 435	90627 435	SNP	G	G	A	novel	10	0	0	0	0	250	170	80	NA	0	0	0
CREBB P	16	37791 15	37791 15	SNP	T	T	C	rs112 90684 0	31	c.A5933G	p.N1978 S	NM_00 4380	exon31	83	50	33	possibly_ damaging	0.00 113 9	0.00 593 7	1
Unkno wn	16	38077 65	38077 65	SNP	G	G	T	rs129 996	10	0	0	0	0	250	177	73	NA	0.00 091 1	0.00 290 7	0
Unkno wn	16	38080 52	38080 53	INS	TA	TA	TAA	novel	14	0	0	0	0	250	0	0	NA	0.00 773 9	0.01 671 9	0
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	3	0	0	0	0	250	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	7	0	0	0	0	218	0	2	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	10	0	0	0	0	249	0	1	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	11	0	0	0	0	43	0	0	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	32	0	0	0	0	249	0	4	NA	0.40 572 2	0.18 185 1	1

Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	33	0	0	0	0	211	0	1	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	34	0	0	0	0	106	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	36	0	0	0	0	239	0	6	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	37	0	0	0	0	142	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	38	0	0	0	0	97	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	39	0	0	0	0	217	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	40	0	0	0	0	226	0	4	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	41	0	0	0	0	243	0	5	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	42	0	0	0	0	238	0	5	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	16	0	0	0	0	206	0	2	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	17	0	0	0	0	162	0	0	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	18	0	0	0	0	201	0	5	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	19	0	0	0	0	38	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	21	0	0	0	0	243	0	23	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	22	0	0	0	0	250	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	20	0	0	0	0	150	0	7	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	23	0	0	0	0	250	0	3	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	24	0	0	0	0	250	0	2	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	25	0	0	0	0	239	0	5	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	26	0	0	0	0	247	0	4	NA	0.40 572 2	0.18 185 1	1

Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	28	0	0	0	0	113	0	6	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	29	0	0	0	0	69	0	6	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	30	0	0	0	0	175	0	2	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	31	0	0	0	0	202	0	6	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38080 52	38080 53	DEL	TA	TA	T	novel	49	0	0	0	0	248	0	12	NA	0.40 572 2	0.18 185 1	1
Unkno wn	16	38210 47	38210 47	SNP	C	C	T	rs149 63104 3	41	0	0	0	0	131	82	49	NA	0	0	0
CREBB P	16	38281 72	38281 72	SNP	A	A	G	rs130 003	32	c.T1953C	p.Y651Y	NM_00 4380	exon10	250	152	98	NA	0.00 546 4	0.02 383 7	0
Unkno wn	17	75738 97	75738 97	SNP	T	T	A	rs178 80847	10	0	0	0	0	238	208	30	NA	0.00 272 4	0.01 418 6	1
Unkno wn	17	75786 40	75786 40	SNP	A	A	G	rs113 53009 0	20	0	0	0	0	83	50	33	NA	0	0	0
TP53	17	75795 79	75795 79	SNP	C	C	T	rs180 0370	20	c.G108A	p.P36P	NM_00 112611 2	exon4	112	76	35	NA	0.00 453 9	0.01 476 7	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	1	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	2	0	0	0	0	249	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	3	0	0	0	0	250	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	4	0	0	0	0	249	0	9	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	5	0	0	0	0	249	0	4	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	6	0	0	0	0	249	0	5	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	7	0	0	0	0	238	0	4	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	8	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	9	0	0	0	0	248	0	13	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	10	0	0	0	0	248	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	12	0	0	0	0	247	0	5	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	13	0	0	0	0	250	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	14	0	0	0	0	249	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	15	0	0	0	0	245	0	9	NA	0	0	0

Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	32	0	0	0	0	238	0	4	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	33	0	0	0	0	214	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	34	0	0	0	0	151	0	6	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	35	0	0	0	0	235	0	9	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	37	0	0	0	0	125	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	39	0	0	0	0	208	0	7	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	40	0	0	0	0	188	0	7	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	41	0	0	0	0	242	0	10	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	42	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	16	0	0	0	0	228	0	6	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	17	0	0	0	0	140	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	18	0	0	0	0	187	0	13	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	22	0	0	0	0	250	0	7	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	25	0	0	0	0	248	0	8	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	26	0	0	0	0	241	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	27	0	0	0	0	245	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	30	0	0	0	0	237	0	7	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	43	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	44	0	0	0	0	250	0	5	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	45	0	0	0	0	243	0	5	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	46	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	48	0	0	0	0	204	0	8	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATT	novel	50	0	0	0	0	249	0	9	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	11	0	0	0	0	84	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	36	0	0	0	0	239	0	3	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	38	0	0	0	0	98	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	19	0	0	0	0	56	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	20	0	0	0	0	144	0	1	NA	0	0	0

Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	23	0	0	0	0	245	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	24	0	0	0	0	247	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	28	0	0	0	0	125	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	31	0	0	0	0	194	0	1	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	47	0	0	0	0	249	0	0	NA	0	0	0
Unkno wn	17	29508 819	29508 820	DEL	AT	AT	A	novel	49	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	17	29508 819	29508 820	INS	AT	AT	ATTT	novel	21	0	0	0	0	227	0	8	NA	0	0	0
Unkno wn	17	29528 270	29528 270	SNP	C	C	T	novel	15	0	0	0	0	185	121	64	NA	0	0	0
EVIZA	17	29645 538	29645 538	SNP	G	G	T	rs147 90968 4	29	c.C563A	p.S188Y	NM_00 100392 7	exon3	152	128	24	probably_ damaging	0	0.00 046 5	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	2	0	0	0	0	250	0	10	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	5	0	0	0	0	250	0	9	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TAA	novel	10	0	0	0	0	250	0	24	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	32	0	0	0	0	153	0	8	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	33	0	0	0	0	87	0	4	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TAA	novel	37	0	0	0	0	68	0	12	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TAA	novel	25	0	0	0	0	162	0	30	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	27	0	0	0	0	154	0	5	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TAA	novel	45	0	0	0	0	250	0	22	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	1	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	2	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	3	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	4	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	5	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	6	0	0	0	0	181	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	7	0	0	0	0	175	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	8	0	0	0	0	215	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	12	0	0	0	0	250	0	0	NA	0	0	0

Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	13	0	0	0	0	231	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	14	0	0	0	0	241	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	15	0	0	0	0	158	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	32	0	0	0	0	153	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	33	0	0	0	0	87	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	34	0	0	0	0	69	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	35	0	0	0	0	144	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	38	0	0	0	0	57	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	39	0	0	0	0	120	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	40	0	0	0	0	98	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	41	0	0	0	0	168	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	42	0	0	0	0	227	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	16	0	0	0	0	137	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	17	0	0	0	0	64	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	18	0	0	0	0	112	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	22	0	0	0	0	208	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	26	0	0	0	0	152	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TAA	TTAA	novel	27	0	0	0	0	154	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	29	0	0	0	0	59	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	30	0	0	0	0	163	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	43	0	0	0	0	207	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	44	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TTAA	TTAA	novel	46	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	17	29647 361	29647 362	INS	TA	TA	TTAA	novel	48	0	0	0	0	162	0	0	NA	0	0	0
ERBB2	17	37865 659	37865 659	SNP	C	C	T	rs561 14611	2	c.C528T	p.N176 N	NM_00 4448	exon4	250	150	98	NA	0.00 181 6	0.01 244 2	0
ERBB2	17	37884 176	37884 176	SNP	C	C	A	rs559 43169	7	c.C3647A	p.A1216 D	NM_00 4448	exon27	224	135	89	probably_ damaging	0.00 136 2	0.00 744 2	0
RARA	17	38512 383	38512 383	SNP	C	C	G	novel	29	c.C1294G	p.R432G	NM_00 114530 1	exon9	35	23	12	possibly_ damaging	0	0	0

Unkno wn	17	38512 480	38512 480	SNP	C	C	T	rs222 9773	13	0	0	0	0	250	157	92	NA	0.00 352 4	0.01 419 1	0
BRCA1	17	41222 975	41222 975	SNP	C	C	T	rs179 9967	29	c.G5019A	p.M167 3I	NM_00 7300	exon16	128	106	22	benign	0.00 204 3	0.01 523 3	0
BRCA1	17	41243 509	41243 509	SNP	T	T	C	rs288 97689	10	c.A4039G	p.R1347 G	NM_00 7300	exon10	250	152	98	probably_ damaging	0.00 113 5	0.00 674 4	0
BRCA1	17	41244 429	41244 429	SNP	C	C	T	rs498 6852	3	c.G3119A	p.S1040 N	NM_00 7300	exon10	250	152	98	possibly_ damaging	0.00 612 8	0.02 186 1	1
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	2	0	0	0	0	250	82	95	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	3	0	0	0	0	248	96	100	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	5	0	0	0	0	218	79	93	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	7	0	0	0	0	101	39	26	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	8	0	0	0	0	171	60	71	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	9	0	0	0	0	174	73	62	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	10	0	0	0	0	213	151	16	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAG	C	novel	11	0	0	0	0	20	0	13	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	14	0	0	0	0	167	67	63	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	15	0	0	0	0	106	41	35	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	32	0	0	0	0	133	54	38	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	38	0	0	0	0	54	14	17	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	39	0	0	0	0	95	32	32	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	40	0	0	0	0	70	48	2	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	41	0	0	0	0	141	49	54	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	42	0	0	0	0	144	50	51	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	16	0	0	0	0	83	27	33	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	17	0	0	0	0	54	19	18	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAG	C	novel	18	0	0	0	0	78	2	56	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	19	0	0	0	0	25	10	8	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	21	0	0	0	0	89	30	39	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	22	0	0	0	0	165	51	64	NA	0	0	0

Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	20	0	0	0	0	61	22	21	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	23	0	0	0	0	129	41	56	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	24	0	0	0	0	134	47	42	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	25	0	0	0	0	120	36	50	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	C	C	novel	30	0	0	0	0	84	0	64	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	43	0	0	0	0	180	59	77	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	45	0	0	0	0	191	85	59	NA	0	0	0
Unkno wn	17	41256 074	41256 087	DEL	CAAAAAAAAA AAAG	CAAAAAAAAA AAAG	C	novel	46	0	0	0	0	250	87	97	NA	0	0	0
Unkno wn	17	41256 089	41256 103	DEL	AAAAAAAAAAG AAAAG	AAAAAAAAAAG AAAAG	A	novel	10	0	0	0	0	249	213	30	NA	0	0	0
Unkno wn	17	41256 089	41256 103	DEL	AAAAAAAAAAG AAAAG	AAAAAAAAAAG AAAAG	A	novel	40	0	0	0	0	109	102	3	NA	0	0	0
Unkno wn	17	41256 089	41256 103	DEL	AAAAAAAAAAG AAAAG	AAAAAAAAAAG AAAAG	A	novel	19	0	0	0	0	39	24	15	NA	0	0	0
Unkno wn	17	41256 089	41256 103	DEL	AAAAAAAAAAG AAAAG	AAAAAAAAAAG AAAAG	A	novel	45	0	0	0	0	247	144	92	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	2	0	0	0	0	250	120	93	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	3	0	0	0	0	250	100	114	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	5	0	0	0	0	244	87	70	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	7	0	0	0	0	177	85	48	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	8	0	0	0	0	246	106	58	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	9	0	0	0	0	250	120	55	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	11	0	0	0	0	48	0	39	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	13	0	0	0	0	228	21	120	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	14	0	0	0	0	250	102	85	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	15	0	0	0	0	214	95	59	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	32	0	0	0	0	205	92	49	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	38	0	0	0	0	94	50	21	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	39	0	0	0	0	145	62	38	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	41	0	0	0	0	246	102	66	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	42	0	0	0	0	244	112	64	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	16	0	0	0	0	164	71	50	NA	0	0	0

Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	17	0	0	0	0	87	44	21	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	18	0	0	0	0	112	0	53	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	21	0	0	0	0	155	64	45	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	22	0	0	0	0	250	100	73	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	20	0	0	0	0	150	71	44	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	23	0	0	0	0	243	101	74	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	24	0	0	0	0	248	117	69	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	25	0	0	0	0	227	106	57	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	29	0	0	0	0	78	33	25	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	30	0	0	0	0	163	1	92	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	43	0	0	0	0	250	86	80	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	45	0	0	0	0	247	110	48	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	novel	46	0	0	0	0	250	79	66	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	11	0	0	0	0	48	0	6	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	13	0	0	0	0	228	21	45	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	18	0	0	0	0	112	0	26	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAAGAA	A	novel	19	0	0	0	0	44	23	7	NA	0	0	0
Unkno wn	17	41256 100	41256 114	DEL	AAAGAAGAA GAAGAA	AAAGAAGAA GAA	A	novel	30	0	0	0	0	163	1	22	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	3	0	0	0	0	68	0	0	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	33	0	0	0	0	30	0	0	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	36	0	0	0	0	46	0	1	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	17	0	0	0	0	19	0	2	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	19	0	0	0	0	24	0	0	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	C	CA	novel	21	0	0	0	0	15	0	1	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	24	0	0	0	0	50	0	0	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	27	0	0	0	0	26	0	1	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	C	CA	novel	29	0	0	0	0	26	0	1	NA	0	0	0
Unkno wn	17	41262 604	41262 606	DEL	CAA	CAA	C	novel	30	0	0	0	0	27	0	0	NA	0	0	0

Unkno wn	17	57991 988	57991 988	SNP	T	T	A	rs747 02949	10	0	0	0	0	250	159	91	NA	0.00 272 4	0.01 058 1	0
Unkno wn	17	60033 861	60033 861	SNP	G	G	A	rs797 69918	13	0	0	0	0	249	225	24	NA	0.00 222 5	0.01 092 3	0
Unkno wn	17	60038 195	60038 200	DEL	AATGAT	AATGAT	A	novel	46	0	0	0	0	250	123	84	NA	0	0.00 012 8	0
MED1 3	17	60045 479	60045 479	SNP	C	C	T	rs348 05963	29	c.G4108A	p.A1370 T	NM_00 5121	exon18	53	39	14	possibly_ damaging	0.00 027 2	0.00 036 6	0
MED1 3	17	60045 568	60045 568	SNP	T	T	C	novel	29	c.A4019G	p.Y1340 C	NM_00 5121	exon18	64	44	20	probably_ damaging	0.00 027 1	0.00 036 7	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	2	0	0	0	0	232	0	3	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	3	0	0	0	0	245	0	17	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	6	0	0	0	0	213	0	3	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	8	0	0	0	0	184	0	13	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	9	0	0	0	0	198	0	19	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	10	0	0	0	0	221	0	23	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	33	0	0	0	0	79	0	8	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	34	0	0	0	0	70	0	7	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	35	0	0	0	0	124	0	10	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	39	0	0	0	0	95	0	6	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	40	0	0	0	0	114	0	12	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	16	0	0	0	0	115	0	5	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	17	0	0	0	0	58	0	5	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	18	0	0	0	0	135	0	17	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	22	0	0	0	0	177	0	7	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	23	0	0	0	0	130	0	11	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	24	0	0	0	0	235	0	24	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	25	0	0	0	0	124	0	14	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	26	0	0	0	0	145	0	14	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	31	0	0	0	0	97	0	7	NA	0	0	0
Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	46	0	0	0	0	208	0	13	NA	0	0	0

Unkno wn	18	75188 0	75188 1	INS	CA	CA	CAA	novel	47	0	0	0	0	185	0	11	NA	0	0	0
Unkno wn	19	31135 16	31135 31	DEL	CGGCAGCTGC GGGCCG	CGGCAGCTGC GGGCCG	C	novel	4	0	0	0	0	250	139	90	NA	0.16 056 8	0.00 971 7	0
Unkno wn	19	31135 60	31135 60	SNP	G	G	A	rs147 29264 5	13	0	0	0	0	191	173	18	NA	0	0	0
Unkno wn	19	31212 47	31212 47	SNP	C	C	T	rs115 49609	19	0	0	0	0	35	22	13	NA	0	0	0
Unkno wn	19	31212 47	31212 47	SNP	C	C	T	rs115 49609	20	0	0	0	0	85	58	27	NA	0	0	0
TYK2	19	10463 118	10463 118	SNP	G	G	C	rs345 36443	10	c.C3310G	p.P1104 A	NM_00 3331	exon23	189	135	53	probably_ damaging	0.00 680 9	0.04 034 9	0
Unkno wn	19	10463 255	10463 255	SNP	G	G	A	novel	20	0	0	0	0	64	36	21	NA	0	0.00 023 3	0
Unkno wn	19	10463 308	10463 308	SNP	G	G	A	rs149 32923 3	23	0	0	0	0	122	73	48	NA	0	0	0
Unkno wn	19	10471 789	10471 789	SNP	A	A	T	rs730 03520	19	0	0	0	0	19	13	6	NA	0	0	0
Unkno wn	19	10472 337	10472 337	SNP	G	G	A	novel	6	0	0	0	0	239	159	54	NA	0	0	0
Unkno wn	19	10472 379	10472 379	SNP	T	T	C	novel	19	0	0	0	0	23	11	8	NA	0	0	0
Unkno wn	19	10472 379	10472 379	SNP	T	T	C	novel	29	0	0	0	0	56	38	15	NA	0	0	0
Unkno wn	19	11095 067	11095 067	SNP	C	C	T	ss465 47847 9	33	0	0	0	0	229	143	84	NA	0.00 023	0.00 399 7	0
Unkno wn	19	11123 821	11123 821	SNP	C	C	T	novel	14	0	0	0	0	237	144	93	NA	0	0.00 011 6	0
Unkno wn	19	17937 479	17937 479	SNP	A	A	G	rs149 87329 8	13	0	0	0	0	246	223	23	NA	0	0	0
JAK3	19	17953 245	17953 245	SNP	T	T	G	novel	32	c.A741C	p.P247P	NM_00 0215	exon6	203	121	81	NA	0	0	0
JAK3	19	17953 245	17953 245	SNP	T	T	G	novel	34	c.A741C	p.P247P	NM_00 0215	exon6	171	103	66	NA	0	0	0
JAK3	19	17953 245	17953 245	SNP	T	T	G	novel	37	c.A741C	p.P247P	NM_00 0215	exon6	131	78	49	NA	0	0	0
JAK3	19	17953 245	17953 245	SNP	T	T	G	novel	19	c.A741C	p.P247P	NM_00 0215	exon6	26	22	4	NA	0	0	0
JAK3	19	17953 245	17953 245	SNP	T	T	G	novel	28	c.A741C	p.P247P	NM_00 0215	exon6	81	50	31	NA	0	0	0
JAK3	19	17953 245	17953 245	SNP	T	T	G	novel	31	c.A741C	p.P247P	NM_00 0215	exon6	62	41	19	NA	0	0	0
JAK3	19	17953 950	17953 950	SNP	G	G	C	rs557 78349	10	c.C452G	p.P151R	NM_00 0215	exon5	233	151	81	benign	0.00 136 5	0.00 722 3	1
CEBPA	19	33792 731	33792 731	INS	G	G	GGCGGGT	novel	8	c.590_591 insACCCG C	p.P197d elinsHP P	NM_00 4364	exon1	75	22	20	NA	0	0	0
CEBPA	19	33792 731	33792 731	INS	G	G	GGCGGGT	novel	15	c.590_591 insACCCG C	p.P197d elinsHP P	NM_00 4364	exon1	88	29	19	NA	0	0	0

Unkno wn	19	40739 721	40739 721	SNP	G	G	C	rs230 4186	1	0	0	0	0	250	216	34	NA	0	0	0
Unkno wn	19	40739 721	40739 721	SNP	G	G	C	rs230 4186	3	0	0	0	0	250	201	36	NA	0	0	0
Unkno wn	19	40739 721	40739 721	SNP	G	G	C	rs230 4186	4	0	0	0	0	250	217	33	NA	0	0	0
Unkno wn	19	40739 721	40739 721	SNP	G	G	C	rs230 4186	5	0	0	0	0	250	205	44	NA	0	0	0
Unkno wn	19	40739 721	40739 721	SNP	G	G	C	rs230 4186	50	0	0	0	0	250	194	54	NA	0	0	0
AKT2	19	40742 179	40742 179	SNP	C	C	T	rs150 00067 4	13	c.G945A	p.E315E	NM_00 1626	exon10	250	215	34	NA	0	0.00 046 5	0
CYP2A 7	19	41382 544	41382 544	SNP	G	G	A	rs116 33374 7	4	c.C1191T	p.S397S	NM_00 0764	exon8	250	214	35	NA	0.01 044	0.00 639 5	0
Unkno wn	19	41383 316	41383 316	SNP	G	G	A	rs231 6211	9	0	0	0	0	206	148	57	NA	0	0	0
Unkno wn	19	41383 319	41383 319	SNP	A	A	G	rs231 6212	9	0	0	0	0	198	143	55	NA	0	0	0
Unkno wn	19	41447 427	41447 427	SNP	A	A	G	rs129 86210	9	0	0	0	0	82	51	30	NA	0	0	0
Unkno wn	19	41447 427	41447 427	SNP	A	A	G	rs129 86210	20	0	0	0	0	40	26	13	NA	0	0	0
Unkno wn	19	41497 129	41497 129	SNP	T	T	C	rs342 23104	10	0	0	0	0	250	219	31	NA	0	0	0
CYP2B 6	19	41515 263	41515 263	SNP	A	A	G	rs283 99497	11	c.A785G	p.K262R	NM_00 0767	exon5	29	24	5	benign	0	0	0
CYP2B 6	19	41515 263	41515 263	SNP	A	A	G	rs283 99497	20	c.A785G	p.K262R	NM_00 0767	exon5	53	38	13	benign	0	0	0
Unkno wn	19	41532 954	41532 954	SNP	C	C	T	rs139 05699 6	26	0	0	0	0	44	28	16	NA	0	0	0
Unkno wn	20	31016 119	31016 119	SNP	C	C	T	rs608 7903	20	0	0	0	0	158	135	23	NA	0.00 635 5	0.01 767 4	0
ASXL1	20	31023 128	31023 128	SNP	A	A	G	novel	10	c.A2613G	p.S871S	NM_01 5338	exon12	250	215	34	NA	0	0	0
Unkno wn	20	31025 192	31025 196	DEL	ATGAT	ATGAT	A	novel	48	0	0	0	0	180	103	57	NA	0	0	0
Unkno wn	20	36014 782	36014 782	SNP	C	C	T	rs561 01634	10	0	0	0	0	250	183	67	NA	0	0	0
Unkno wn	20	36022 405	36022 405	SNP	C	C	T	rs561 82609	20	0	0	0	0	137	117	20	NA	0.00 181 6	0.00 930 2	0
GNAS	20	57429 619	57429 619	SNP	A	A	G	novel	49	c.A1299G	p.A433A	NM_08 0425	exon1	249	189	58	NA	0	0	0
GNAS	20	57430 118	57430 118	SNP	C	C	G	rs748 97360	34	c.C1798G	p.R600G	NM_08 0425	exon1	250	161	88	NA	0.00 151 2	0.00 565	0
Unkno wn	20	57430 792	57430 811	DEL	AGGCGCGCCC CGCCTCGCCT	AGGCGCGCCC CGCCTCGCCT	A	novel	24	0	0	0	0	64	34	23	NA	0	0	0
Unkno wn	20	57466 761	57466 761	INS	C	C	CCCGCCG	novel	49	0	0	0	0	250	137	82	NA	0.01 600 7	0	0
Unkno wn	20	57466 932	57466 932	SNP	C	C	G	novel	34	0	0	0	0	106	70	36	NA	0	0	0

Unkno wn	20	57466 932	57466 932	SNP	C	C	G	novel	38	0	0	0	0	79	53	26	NA	0	0	0
Unkno wn	20	57466 932	57466 932	SNP	C	C	G	novel	20	0	0	0	0	65	43	22	NA	0	0	0
Unkno wn	20	57466 932	57466 932	SNP	C	C	G	novel	26	0	0	0	0	123	75	48	NA	0	0	0
Unkno wn	20	57466 932	57466 932	SNP	C	C	G	novel	31	0	0	0	0	61	40	21	NA	0	0	0
Unkno wn	20	57466 932	57466 932	SNP	C	C	G	novel	50	0	0	0	0	222	156	66	NA	0	0	0
Unkno wn	21	36164 311	36164 311	SNP	C	C	G	novel	11	0	0	0	0	36	23	13	NA	0	0	0
Unkno wn	21	36228 700	36228 700	SNP	A	A	C	novel	29	0	0	0	0	106	71	35	NA	0	0.00 251 1	0
RUNX1	21	36259 324	36259 324	SNP	A	A	G	rs111 52773 8	10	c.T167C	p.L56S	NM_00 1754	exon4	250	223	27	possibly_ damaging	0.00 275	0.01 462 3	6
Unkno wn	21	36410 948	36410 950	INS	TAG	TAG	TAGAG	novel	3	0	0	0	0	135	28	81	NA	0	0	0
Unkno wn	21	36410 948	36410 950	INS	TAG	TAG	TAGAG	novel	10	0	0	0	0	172	112	22	NA	0	0	0
Unkno wn	21	36410 948	36410 950	INS	TAG	TAG	TAGAG	novel	30	0	0	0	0	33	14	6	NA	0	0	0
Unkno wn	21	36410 948	36410 950	INS	TAG	TAG	TAGAG	novel	45	0	0	0	0	107	48	36	NA	0	0	0
Unkno wn	21	36410 948	36410 950	INS	TAG	TAG	TAGAG	novel	47	0	0	0	0	123	50	32	NA	0	0	0
Unkno wn	21	36410 948	36410 950	INS	TAG	TAG	TAGAG	novel	48	0	0	0	0	76	25	23	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	2	0	0	0	0	246	149	17	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	4	0	0	0	0	249	144	16	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	11	0	0	0	0	46	23	3	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	32	0	0	0	0	76	44	14	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	33	0	0	0	0	45	29	8	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	34	0	0	0	0	33	18	5	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	35	0	0	0	0	62	39	8	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	36	0	0	0	0	88	45	14	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	37	0	0	0	0	44	26	4	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	38	0	0	0	0	106	45	9	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	39	0	0	0	0	84	52	12	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	40	0	0	0	0	66	37	14	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	41	0	0	0	0	125	69	17	NA	0	0	0

Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	42	0	0	0	0	108	70	13	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	16	0	0	0	0	87	45	19	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	17	0	0	0	0	75	47	9	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	18	0	0	0	0	69	33	9	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	19	0	0	0	0	28	17	3	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	21	0	0	0	0	88	56	11	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	22	0	0	0	0	129	84	19	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	20	0	0	0	0	122	45	20	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	23	0	0	0	0	80	48	14	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	24	0	0	0	0	114	80	14	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	25	0	0	0	0	57	44	5	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	26	0	0	0	0	98	56	16	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	27	0	0	0	0	107	60	18	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	28	0	0	0	0	66	34	17	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	29	0	0	0	0	67	34	12	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	31	0	0	0	0	66	36	16	NA	0	0	0
Unkno wn	21	36410 948	36410 950	DEL	TAG	TAG	T	novel	43	0	0	0	0	131	84	11	NA	0	0	0
Unkno wn	21	39756 495	39756 496	DEL	AT	AT	A	novel	49	0	0	0	0	248	123	87	NA	0	0	0
Unkno wn	21	39756 746	39756 746	SNP	G	G	A	novel	29	0	0	0	0	64	40	24	NA	0	0	0
Unkno wn	21	39757 071	39757 071	SNP	A	A	G	novel	11	0	0	0	0	54	33	21	NA	0	0	0
Unkno wn	21	39758 711	39758 713	INS	ATT	ATT	ATTT	novel	8	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	A	A	novel	6	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	11	0	0	0	0	63	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	32	0	0	0	0	249	0	7	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	A	A	novel	38	0	0	0	0	72	0	6	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	39	0	0	0	0	194	0	5	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	41	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	29	0	0	0	0	82	0	1	NA	0	0	0

Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	48	0	0	0	0	203	0	0	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	A	novel	50	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	1	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	AT	AT	novel	4	0	0	0	0	250	0	11	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	13	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	14	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	15	0	0	0	0	250	0	7	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	34	0	0	0	0	103	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	36	0	0	0	0	250	0	6	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	40	0	0	0	0	178	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	42	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	16	0	0	0	0	220	0	7	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	17	0	0	0	0	148	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	18	0	0	0	0	188	0	12	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	19	0	0	0	0	39	0	3	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	21	0	0	0	0	250	0	9	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	22	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	20	0	0	0	0	159	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	23	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	24	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	26	0	0	0	0	244	0	5	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	27	0	0	0	0	250	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	28	0	0	0	0	122	0	10	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	30	0	0	0	0	183	0	2	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	AT	AT	novel	45	0	0	0	0	250	0	5	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	46	0	0	0	0	250	0	5	NA	0	0	0
Unkno wn	21	39758 711	39758 713	DEL	ATT	ATT	AT	novel	47	0	0	0	0	250	0	3	NA	0	0	0
Unkno wn	21	39758 998	39758 999	DEL	GA	GA	G	novel	13	0	0	0	0	245	0	1	NA	0	0	0

Unkno wn	21	39758 998	39758 999	DEL	GA	GA	G	novel	15	0	0	0	0	212	0	2	NA	0	0	0
Unkno wn	21	39758 998	39758 999	DEL	GA	GA	G	novel	26	0	0	0	0	152	0	1	NA	0	0	0
Unkno wn	21	39758 998	39758 999	DEL	GA	GA	G	novel	28	0	0	0	0	106	0	0	NA	0	0	0
Unkno wn	21	39758 998	39758 999	DEL	GA	G	G	novel	45	0	0	0	0	228	0	3	NA	0	0	0
Unkno wn	21	39758 998	39758 999	DEL	GA	GA	G	novel	46	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39758 998	39758 999	DEL	GA	GA	G	novel	47	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAAA	novel	1	0	0	0	0	247	0	16	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAAA	novel	36	0	0	0	0	167	0	21	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAAA	novel	21	0	0	0	0	201	0	28	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TAA	TAA	novel	6	0	0	0	0	243	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	11	0	0	0	0	55	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	32	0	0	0	0	191	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	35	0	0	0	0	119	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	37	0	0	0	0	92	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	38	0	0	0	0	88	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	39	0	0	0	0	182	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	41	0	0	0	0	241	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	17	0	0	0	0	103	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	28	0	0	0	0	119	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	29	0	0	0	0	67	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	44	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	46	0	0	0	0	247	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	48	0	0	0	0	163	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	INS	TA	TA	TAA	novel	50	0	0	0	0	250	0	0	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	33	0	0	0	0	122	0	3	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	16	0	0	0	0	169	0	4	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	18	0	0	0	0	113	0	1	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	19	0	0	0	0	33	0	1	NA	0	0	0

Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	22	0	0	0	0	247	0	3	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	20	0	0	0	0	154	0	9	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	23	0	0	0	0	222	0	4	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	24	0	0	0	0	250	0	1	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	25	0	0	0	0	187	0	3	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	26	0	0	0	0	204	0	2	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	27	0	0	0	0	192	0	2	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	30	0	0	0	0	128	0	1	NA	0	0	0
Unkno wn	21	39763 877	39763 878	DEL	TA	TA	T	novel	31	0	0	0	0	139	0	3	NA	0	0	0
Unkno wn	21	39769 135	39769 141	DEL	CACAGCA	CACAGCA	C	novel	38	0	0	0	0	73	44	24	NA	0	0	0
Unkno wn	21	39774 592	39774 593	INS	GA	GA	GAA	novel	1	0	0	0	0	180	69	82	NA	0.03 191	0.06 812 1	0
Unkno wn	21	39774 592	39774 593	INS	GA	GA	GAA	novel	36	0	0	0	0	151	61	44	NA	0.03 191	0.06 812 1	0
Unkno wn	21	39774 592	39774 593	INS	GA	GA	GAA	novel	19	0	0	0	0	23	14	3	NA	0.03 191	0.06 812 1	0
Unkno wn	21	39774 592	39774 593	INS	GA	GA	GAA	novel	21	0	0	0	0	149	74	42	NA	0.03 191	0.06 812 1	0
Unkno wn	21	39774 592	39774 593	DEL	GA	GA	G	novel	15	0	0	0	0	123	87	13	NA	0.06 335 1	0.04 860 6	0
Unkno wn	21	39774 592	39774 593	DEL	GA	GA	G	novel	34	0	0	0	0	43	26	5	NA	0.06 335 1	0.04 860 6	0
Unkno wn	21	39774 592	39774 593	DEL	GA	GA	G	novel	17	0	0	0	0	57	35	6	NA	0.06 335 1	0.04 860 6	0
Unkno wn	21	39774 592	39774 593	DEL	GA	GA	G	novel	29	0	0	0	0	48	28	7	NA	0.06 335 1	0.04 860 6	0
Unkno wn	21	42866 994	42866 997	DEL	CAAA	CA	C	novel	12	0	0	0	0	147	0	2	NA	0	0	0
Unkno wn	21	42866 994	42866 997	DEL	CAAA	C	CAA	novel	35	0	0	0	0	48	0	1	NA	0	0	0
Unkno wn	21	42866 994	42866 997	DEL	CAAA	C	CAA	novel	38	0	0	0	0	86	0	5	NA	0	0	0
Unkno wn	21	42866 994	42866 997	DEL	CAAA	C	CAA	novel	29	0	0	0	0	53	0	1	NA	0	0	0
Unkno wn	21	42866 994	42866 997	DEL	CAAA	CA	C	novel	50	0	0	0	0	136	0	9	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	1	0	0	0	0	211	0	20	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	5	0	0	0	0	230	0	23	NA	0	0	0

Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	8	0	0	0	0	249	0	33	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	9	0	0	0	0	247	0	23	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	12	0	0	0	0	245	0	20	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	14	0	0	0	0	197	0	18	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	32	0	0	0	0	146	0	10	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	33	0	0	0	0	122	0	6	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	34	0	0	0	0	98	0	12	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	35	0	0	0	0	98	0	4	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	37	0	0	0	0	80	0	11	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	39	0	0	0	0	130	0	11	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	41	0	0	0	0	135	0	19	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	17	0	0	0	0	75	0	11	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	19	0	0	0	0	40	0	6	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	23	0	0	0	0	138	0	19	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	27	0	0	0	0	137	0	10	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	31	0	0	0	0	86	0	8	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	46	0	0	0	0	249	0	28	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TA	TAA	novel	48	0	0	0	0	156	0	9	NA	0	0	0
Unkno wn	21	42867 842	42867 843	INS	TA	TAA	T	novel	50	0	0	0	0	176	0	64	NA	0	0	0
Unkno wn	21	42873 558	42873 558	SNP	A	A	G	novel	48	0	0	0	0	114	79	35	NA	0	0	0
Unkno wn	21	42877 620	42877 620	SNP	C	C	T	novel	10	0	0	0	0	143	124	19	NA	0	0	0
MAPK 1	22	22143 055	22143 055	SNP	G	G	A	novel	11	c.C652T	p.L218L	NM_00 2745	exon5	58	48	10	NA	0	0	0
Unkno wn	22	24145 459	24145 459	SNP	T	T	G	rs143 87260 2	13	0	0	0	0	250	223	27	NA	0.00 930 5	0.00 186	0
Unkno wn	22	24176 526	24176 526	SNP	C	C	G	novel	20	0	0	0	0	97	59	38	NA	0	0	0
Unkno wn	22	42523 400	42523 400	SNP	A	A	G	rs285 78778	34	0	0	0	0	127	91	36	NA	0.00 136 2	0.01 175	0
Unkno wn	22	42523 437	42523 437	SNP	C	C	T	novel	39	0	0	0	0	176	143	33	NA	0	0	0
CYP2D 6	22	42523 854	42523 854	SNP	C	C	T	rs792 92917	13	c.G975A	p.P325P	NM_00 0106	exon6	250	171	78	NA	0.00 136 6	0.00 325 7	0

Unkno wn	22	42524 132	42524 132	SNP	C	C	T	rs283 71721	30	0	0	0	0	81	71	10	NA	0.03 893 7	0.00 408 4	0
CYP2D 6	22	42524 175	42524 178	DEL	CCTT	CCTT	C	novel	21	c.841_843 del	p.281_2 81del	NM_00 0106	exon5	124	76	40	NA	0.00 588 5	0.02 705	0
CYP2D 6	22	42524 175	42524 178	DEL	CCTT	CCTT	C	novel	24	c.841_843 del	p.281_2 81del	NM_00 0106	exon5	84	51	31	NA	0.00 588 5	0.02 705	0
CYP2D 6	22	42524 175	42524 178	DEL	CCTT	CCTT	C	novel	43	c.841_843 del	p.281_2 81del	NM_00 0106	exon5	224	159	59	NA	0.00 588 5	0.02 705	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	2	0	0	0	0	250	191	58	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	4	0	0	0	0	246	150	94	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	7	0	0	0	0	102	70	32	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	8	0	0	0	0	207	147	60	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	12	0	0	0	0	250	192	58	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	14	0	0	0	0	250	157	93	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	35	0	0	0	0	245	153	91	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	36	0	0	0	0	250	149	99	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	38	0	0	0	0	143	95	48	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	39	0	0	0	0	138	105	32	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	41	0	0	0	0	229	157	70	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	42	0	0	0	0	174	104	69	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	23	0	0	0	0	167	118	49	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	24	0	0	0	0	126	93	33	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	25	0	0	0	0	108	78	30	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	26	0	0	0	0	178	133	43	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	27	0	0	0	0	250	158	91	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	29	0	0	0	0	59	45	14	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	30	0	0	0	0	51	35	16	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	31	0	0	0	0	58	42	16	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	43	0	0	0	0	250	152	98	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	45	0	0	0	0	250	187	63	NA	0	0	0

Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	46	0	0	0	0	250	185	64	NA	0	0	0
Unkno wn	22	42524 743	42524 743	SNP	G	G	A	rs728 5233	48	0	0	0	0	190	134	55	NA	0	0	0
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	2	c.T657C	p.F219F	NM_00 0106	exon4	250	206	44	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	4	c.T657C	p.F219F	NM_00 0106	exon4	250	155	95	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	7	c.T657C	p.F219F	NM_00 0106	exon4	154	107	47	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	8	c.T657C	p.F219F	NM_00 0106	exon4	250	176	74	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	12	c.T657C	p.F219F	NM_00 0106	exon4	250	203	47	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	13	c.T657C	p.F219F	NM_00 0106	exon4	250	217	33	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	15	c.T657C	p.F219F	NM_00 0106	exon4	250	164	86	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	35	c.T657C	p.F219F	NM_00 0106	exon4	250	166	83	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	36	c.T657C	p.F219F	NM_00 0106	exon4	250	170	80	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	38	c.T657C	p.F219F	NM_00 0106	exon4	250	143	62	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	39	c.T657C	p.F219F	NM_00 0106	exon4	221	164	57	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	41	c.T657C	p.F219F	NM_00 0106	exon4	250	185	65	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	42	c.T657C	p.F219F	NM_00 0106	exon4	250	157	91	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	17	c.T657C	p.F219F	NM_00 0106	exon4	250	153	97	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	20	c.T657C	p.F219F	NM_00 0106	exon4	131	86	45	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	23	c.T657C	p.F219F	NM_00 0106	exon4	250	171	77	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	24	c.T657C	p.F219F	NM_00 0106	exon4	233	178	55	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	26	c.T657C	p.F219F	NM_00 0106	exon4	250	198	52	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	27	c.T657C	p.F219F	NM_00 0106	exon4	250	175	75	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	29	c.T657C	p.F219F	NM_00 0106	exon4	65	51	14	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	30	c.T657C	p.F219F	NM_00 0106	exon4	108	78	30	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	31	c.T657C	p.F219F	NM_00 0106	exon4	99	67	32	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	43	c.T657C	p.F219F	NM_00 0106	exon4	250	181	69	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	45	c.T657C	p.F219F	NM_00 0106	exon4	250	194	56	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	46	c.T657C	p.F219F	NM_00 0106	exon4	250	192	58	NA	0	0	1
CYP2D 6	22	42524 795	42524 795	SNP	A	A	G	rs283 71713	48	c.T657C	p.F219F	NM_00 0106	exon4	250	184	66	NA	0	0	1

CYP2D6	22	42525085	42525086	DEL	CA	CA	C	novel	12	c.454delT	p.W152fs	NM_0010106	exon3	240	140	95	NA	0.002002	0.008969	0
Unkno wn	22	42525500	42525500	SNP	C	C	T	ss466204493	13	0	0	0	0	250	213	36	NA	0	0	0
Unkno wn	22	42526811	42526812	DEL	AT	AT	A	novel	20	0	0	0	0	55	35	20	NA	0	0.00061	0
Unkno wn	22	42526816	42526816	SNP	C	C	G	novel	20	0	0	0	0	51	33	18	NA	0	0	0
Unkno wn	22	42536766	42536766	SNP	C	C	A	novel	49	0	0	0	0	250	173	77	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	1	0	0	0	0	193	155	38	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	2	0	0	0	0	250	163	86	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	6	0	0	0	0	158	117	41	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	7	0	0	0	0	67	57	10	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	9	0	0	0	0	138	113	25	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	10	0	0	0	0	125	81	44	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	35	0	0	0	0	84	64	20	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	39	0	0	0	0	89	75	13	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	42	0	0	0	0	78	53	25	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	20	0	0	0	0	56	44	12	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	23	0	0	0	0	127	90	37	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	24	0	0	0	0	69	51	18	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	27	0	0	0	0	129	97	32	NA	0	0	0
Unkno wn	22	42537241	42537241	SNP	C	C	T	rs56127449	31	0	0	0	0	56	42	14	NA	0	0	0
Unkno wn	22	42546079	42546079	SNP	G	G	C	rs145957370	34	0	0	0	0	125	79	46	NA	0	0	0
Unkno wn	22	42546180	42546180	SNP	A	A	G	rs5025571	49	0	0	0	0	213	146	67	NA	0	0	0
CRLF2	X	1325479	1325479	SNP	C	C	T	novel	19	c.G196A	p.E66K	NM_02148	exon3	32	20	12	NA	0	0.000121	0
CRLF2	X	1325479	1325479	SNP	C	C	T	novel	20	c.G196A	p.E66K	NM_02148	exon3	157	112	44	NA	0	0.000121	0
Unkno wn	X	28677132	28677133	INS	CT	CT	CTT	novel	37	0	0	0	0	31	22	6	NA	0	0	0
Unkno wn	X	28677132	28677133	INS	CT	CT	CTT	novel	17	0	0	0	0	33	26	5	NA	0	0	0
Unkno wn	X	28677132	28677133	INS	CT	CT	CTT	novel	20	0	0	0	0	54	38	10	NA	0	0	0

Unkno wn	X	28677 132	28677 133	INS	CT	CT	CTT	novel	29	0	0	0	0	26	18	6	NA	0	0	0
Unkno wn	X	28677 132	28677 133	DEL	CT	CT	C	novel	4	0	0	0	0	184	82	94	NA	0	0	0
Unkno wn	X	28677 132	28677 133	DEL	CT	CT	C	novel	33	0	0	0	0	23	18	3	NA	0	0	0
Unkno wn	X	28677 132	28677 133	DEL	CT	CT	C	novel	38	0	0	0	0	32	21	4	NA	0	0	0
Unkno wn	X	28677 132	28677 133	DEL	CT	CT	C	novel	19	0	0	0	0	21	16	4	NA	0	0	0
Unkno wn	X	41205 719	41205 719	SNP	C	C	T	novel	11	0	0	0	0	47	38	9	NA	0	0	0
Unkno wn	X	44820 477	44820 477	SNP	G	G	A	novel	36	0	0	0	0	219	132	87	NA	0	0	0
Unkno wn	X	44894 079	44894 079	SNP	A	A	T	novel	11	0	0	0	0	24	16	8	NA	0	0	0
Unkno wn	X	44894 082	44894 082	SNP	A	A	T	novel	11	0	0	0	0	24	16	8	NA	0	0	0
Unkno wn	X	44896 771	44896 771	SNP	G	G	A	novel	4	0	0	0	0	250	150	99	NA	0	0	0
Unkno wn	X	44935 924	44935 927	DEL	CTTT	CT	C	novel	32	0	0	0	0	158	0	5	NA	0	0	0
Unkno wn	X	44935 924	44935 927	DEL	CTTT	CT	C	novel	24	0	0	0	0	250	0	4	NA	0	0	0
KDM6 A	X	44935 983	44935 983	SNP	T	T	C	novel	20	c.T2744C	p.L915S	NM_02 1140	exon18	158	104	54	benign	0	0	0
Unkno wn	X	70330 988	70330 988	SNP	T	T	A	rs454 70692	28	0	0	0	0	47	33	14	NA	0	0	0
Unkno wn	X	70462 715	70462 715	SNP	G	G	A	novel	25	0	0	0	0	84	53	29	NA	0	0	0
Unkno wn	X	76907 571	76907 571	SNP	C	C	T	rs591 2716	10	0	0	0	0	250	214	36	NA	0.01 460 2	0.00 876 9	0

eTable 3. Copy number alterations. List of copy number gains and losses observed in this study.

Sample	CN_State	Type	Chromosome	Cytoband_start	Cytoband_end	Size(kbp)	GeneCount	Genes
49	3	Gain	8	p22	p22	716.803	6	PCM1, ASAH1, LOC101929066, NAT1, NAT2, PSD3
45	1.5	Loss	12	q12	q12	903.81	2	ALG10B, CPNE8
3	1.5	Loss	X	q13.2	q22.1	27143.453	85	SLC16A2, RLIM, NEXMIF, ABCB7, UPRT, ZDHHC15, TTC3P1, MAGEE2, PBDC1, MAGEE1, MIR325HG, MIR384, MIR325, FGF16, ATRX, MAGT1, COX7B, ATP7A, PGAM4, PGK1, TAF9B, CYSLTR1, RTL3, LPAR4, MIR4328, P2RY10, GPR174, ITM2A, TBX22, CHMP1B2P, TENT5D, BRWD3, HMG5, SH3BGRL, POU3F4, CYLC1, RPS6KA6, MIR548I4, HDX, UBE2DNL, APOOL, SATL1, LOC101928128, ZNF711, POF1B, MIR1321, CHM, MIR361, DACH2, KLHL4, CPXCR1, TGIF2LX, PABPC5-AS1, PABPC5, PCDH11X, MIR4454, NAP1L3, FAM133A, MIR548M, BRDTP1, DIAPH2, RPA4, DIAPH2-AS1, XRCC6P5, PCDH19, TNMD, TSPAN6, SRPX2, SYTL4, CSTF2, NOX1, XKRX, ARL13A, TRMT2B, TMEM35A, CENPI, DRP2, TAF7L, TIMM8A, BTK, RPL36A, RPL36A-HNRNPH2, GLA, HNRNPH2, ARMCX4
3	1.5	Loss	X	q26.3	q28	19944.309	229	FHL1, MAP7D3, ADGRG4, BRS3, HTATSF1, VGLL1, MIR934, LINC00892, CD40LG, ARHGEF6, RBMX, SNORD61, GPR101, ZIC3, LINC00889, FGF13,

								<p>MIR504, FGF13-AS1, SRD5A1P1, F9, MCF2, ATP11C, MIR505, CXorf66, LOC728660, LOC389895, SOX3, LINC00632, CDR1, MIR320D2, SPANXB1, RNU6-2, LDOC1, SPANXA2-OT1, SPANXA2, SPANXA1, LOC645188, SPANXD, SPANXC, MAGEC3, MAGEC1, MAGEC2, SPANXN4, SPANXN3, SLITRK4, SPANXN2, UBE2NL, SPANXN1, SLITRK2, MIR892C, MIR890, MIR888, MIR892A, MIR892B, MIR891B, MIR891A, CXorf51A, CXorf51B, MIR513C, MIR513B, MIR513A1, MIR513A2, MIR506, MIR507, MIR508, MIR514B, MIR509-1, MIR509-2, MIR509-3, MIR510, MIR514A1, MIR514A2, MIR514A3, FMR1-AS1, FMR1, FMR1NB, AFF2, IDS, LINC00893, CXorf40A, HSFX3, HSFX4, MAGEA9, MAGEA9B, HSFX2, HSFX1, TMEM185A, MAGEA11, LINC00850, MAGEA8-AS1, MAGEA8, CXorf40B, LINC00894, MIR2114, MAMLD1, MTM1, MTMR1, CD99L2, HMGB3, MIR4330, GPR50-AS1, GPR50, VMA21, LOC105377213, PASD1, PRRG3, FATE1, CNGA2, MAGEA4-AS1, MAGEA4, GABRE, MIR224, MIR452, MAGEA5, MAGEA10-MAGEA5, MAGEA10, GABRA3, MIR105-1, MIR767, MIR105-2, GABRQ, MAGEA6, CSAG3, MAGEA2, MAGEA2B,</p>
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							<p>CSAG4, MAGEA12, CSAG1, MAGEA3, CETN2, NSDHL, ZNF185, PNMA5, PNMA3, PNMA6A, MAGEA1, PNMA6F, ZNF275, LOC105373378, PNMA6E, ZFP92, TREX2, HAUS7, BGN, ATP2B3, CCNQ, LOC105373383, DUSP9, PNCK, SLC6A8, BCAP31, ABCD1, PLXNB3, SRPK3, IDH3G, SSR4, PDZD4, L1CAM, LCA10, AVPR2, ARHGAP4, NAA10, RENBP, HCFC1, HCFC1-AS1, TMEM187, MIR3202-1, MIR3202-2, IRAK1, MIR718, MECP2, OPN1LW, OPN1MW2, OPN1MW, OPN1MW3, TEX28, TKTL1, FLNA, EMD, RPL10, SNORA70, DNASE1L1, TAZ, CH17-340M24.3, ATP6AP1, GDI1, FAM50A, MIR6858, PLXNA3, LAGE3, UBL4A, SLC10A3, FAM3A, G6PD, IKBKG, FAM223A, FAM223B, CTAG1A, CTAG1B, CTAG2, GAB3, DKC1, SNORA36A, MIR664B, SNORA56, MPP1, SMIM9, F8, H2AFB2, H2AFB3, H2AFB1, F8A1, F8A2, F8A3, MIR1184-2, MIR1184-3, MIR1184-1, FUNDC2, CMC4, MTCP1, BRCC3, VBP1, RAB39B, CLIC2, LOC101927830, TMLHE-AS1, TMLHE, SPRY3, VAMP7</p>
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