Supplementary Methods

Human Lung squamous cell carcinoma tumor specimens.

The study protocol and informed consent from all studies in this study were approved by the Ethics Committee of the Sichuan Provincial People's Hospital of University of Electronic Science and Technology, China. Informed consent in writing was obtained from each patient and the study protocol conformed to the ethical guidelines of the 1975 Declaration of Helsinki as reflected in a prior approval by the Ethics Committee of the Sichuan Provincial People's Hospital of University of Electronic Science and Technology, China. The diagnosis of LUSC was made by pathologists in the above hospitals by hematoxylin and eosin (H&E) staining according to histology plus the immunohistochemistry for chromogranin A and synaptophysin. Of the 58 patients, 58 formalin fixed paraffin embedded (FFPE) tumor samples had matched germline specimen (n=58). Whole-exome sequencing (WES) was performed on 58 LUSC FFPE tumor samples and matched germline specimen.

Whole-exome sequencing and Data processing.

DNA was extracted from each FFPE specimen (n=58) and matched germline specimen (n=58) using the Gentra Puregene DNA extraction kit (Qiagen) following the protocol of the manufacturer. All sequence data was QCd for read counts, quality values, GC-content, and all other relevant parameters with FastQC (v0.10.1). The raw paired sequencing reads of human samples acquired from WES were aligned to the respective human (hg38). The alignment was performed with the BWA aligner [1] (version 0.6.1-r104). Concordant read-pairs were identified as potential PCR duplicates and were subsequently masked in the alignment file. Additionally, an estimation of human DNA library contamination was implemented to enhance sensitivity and specificity of mutation calling. SAMtools mpileup (0.1.19) [2] was used to locate non-reference positions in tumor and germline samples. After removal of terminal adaptor sequences and low-quality data, reads were mapped to the reference human genome (hg38) and aligned using BWA (version 0.6.1-r104). MuTect2 (3.4–46-gbc02625) [3] was employed to call somatic small insertions and deletions (InDels) and single nucleotide variants (SNVs).

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[1] Li,H.&Durbin,R.FastandaccurateshortreadalignmentwithBurrows-Wheeler transform. Bioinformatics 25, 1754－1760 (2009).

[2] Li H, Handsaker B, Wysoker A, et al. The Sequence Alignment/Map format and SAMtools. Bioinformatics 2009;25:2078-9.

[3] Cibulskis, K. et al. Sensitive detection of somatic point mutations in impure and heterogeneous cancer samples. Nat. Biotechnol. 31, 213－219 (2013).

Table S1. The information of fifteen GDSC-LUSC cell lines.

Cell_line	TCGA_classification	IC50	IGF2R	CCLE_name	Cell_line_aliases	Gender	Source	Oncomap	Hybrid_Capture_Sequencing
EBC-1	LUSC	9.006367	WT	EBC1_LUNG		M	RIKEN	yes	yes
EPLC-272H	LUSC	2.076526	MT	EPLC272H_LUNG		M	DSMZ	yes	yes
HARA	LUSC	7.698648	MT	HARA_LUNG		M	HSRRB	yes	yes
HCC-15	LUSC	15.736582	WT	HCC15_LUNG		M	DSMZ	yes	yes
KNS-62	LUSC	3.127851	MT	KNS62_LUNG		M	HSRRB	yes	yes
LC-1 sq	LUSC	4.637701	WT	LC1SQSF_LUNG	LC-1 sq	M	RIKEN	yes	yes
LK-2	LUSC	3.109972	MT	LK2_LUNG		M	RIKEN	yes	yes
LOU-NH91	LUSC	10.295492	WT	LOUNH91_LUNG		F	DSMZ	yes	yes
NCI-H1869	LUSC	12.263493	WT	NCIH1869_LUNG	H1869	M	ATCC	yes	yes
NCI-H2170	LUSC	34.628427	WT	NCIH2170_LUNG	H2170	M	ATCC	yes	yes
NCI-H226	LUSC	13.249541	WT	NCIH226_LUNG	H226	M	ATCC	yes	yes
NCI-H520	LUSC	34.725225	WT	NCIH520_LUNG	H520	M	ATCC	yes	yes
RERF-LC-Sq1	LUSC	16.844052	WT	RERFLCSQ1_LUNG		F	HSRRB	yes	yes
SK-MES-1	LUSC	8.156505	WT	SKMES1_LUNG		M	ATCC	yes	yes
SW 900	LUSC	1.958399	WT	SW900_LUNG		M	ATCC	yes	yes

Cell_line	TCGA_classification	IC50	IGF2R	CCLE_name	Cell_line_aliases	Gender	Source	Oncomap	Hybrid_Capture_Sequencing
EBC-1	LUSC	9.006367	WT	EBC1_LUNG		M	RIKEN	yes	yes
EPLC-272H	LUSC	2.076526	MT	EPLC272H_LUNG		M	DSMZ	yes	yes
HARA	LUSC	7.698648	MT	HARA_LUNG		M	HSRRB	yes	yes
HCC-15	LUSC	15.736582	WT	HCC15_LUNG		M	DSMZ	yes	yes
KNS-62	LUSC	3.127851	MT	KNS62_LUNG		M	HSRRB	yes	yes
LC-1 sq	LUSC	4.637701	WT	LC1SQSF_LUNG	LC-1 sq	M	RIKEN	yes	yes

Table S2. The mutations associated with cisplatin response.

gene	Pval	Wildtype (Mean: Cisplatin IC50)	Mutation (Mean: Cisplatin IC50)	Mutation vs Wildtype
PDE3A	0.004395604	14.19749033	2.381632333	Cisplatin Sensitive
VPS13B	0.017582418	9.184076833	22.43528633	Cisplatin Resistant
AFF3	0.019047619	8.320086846	34.676826	Cisplatin Resistant
CYP4F2	0.019047619	13.34460431	2.0174625	Cisplatin Sensitive
DARS	0.019047619	8.320086846	34.676826	Cisplatin Resistant
DSG1	0.019047619	8.320086846	34.676826	Cisplatin Resistant
KIAA1731	0.019047619	13.34460431	2.0174625	Cisplatin Sensitive
MYH13	0.019047619	13.34460431	2.0174625	Cisplatin Sensitive
OR4C6	0.019047619	8.320086846	34.676826	Cisplatin Resistant
OXR1	0.019047619	13.34460431	2.0174625	Cisplatin Sensitive
PLXND1	0.019047619	13.34460431	2.0174625	Cisplatin Sensitive
ZNF423	0.019047619	13.34460431	2.0174625	Cisplatin Sensitive
DCC	0.026373626	7.583470909	23.52415025	Cisplatin Resistant
IGF2R	0.026373626	14.68198036	4.00324925	Cisplatin Sensitive
SLFN13	0.030769231	13.98405908	3.235357333	Cisplatin Sensitive
ZFYVE9	0.030769231	14.100036	2.771449667	Cisplatin Sensitive
ATP10B	0.038095238	13.26510846	2.5341855	Cisplatin Sensitive
CUBN	0.038095238	13.26510846	2.5341855	Cisplatin Sensitive
DNAH5	0.038095238	13.26510846	2.5341855	Cisplatin Sensitive
IRAK3	0.038095238	9.688115692	25.7846385	Cisplatin

POLR3A	0.038095238	9.688115692	25.7846385	Resistant Cisplatin
RALYL	0.038095238	13.26510846	2.5341855	Resistant Cisplatin
SLC16A6	0.038095238	13.26510846	2.5341855	Sensitive Cisplatin
SORCS1	0.038095238	13.26510846	2.5341855	Sensitive Cisplatin
SYCP1	0.038095238	13.26510846	2.5341855	Sensitive Cisplatin
ZNF536	0.038095238	13.26510846	2.5341855	Sensitive Cisplatin
KLHL4	0.03956044	14.640357	4.1177135	Sensitive Cisplatin
MLL2	0.03996004	14.9995601	5.503836	Sensitive Cisplatin
LRRIQ3	0.048351648	13.72898017	4.255673	Sensitive Cisplatin
SG269	0.048351648	13.98256917	3.241317	Sensitive Cisplatin

Table S3. The genetic characteristics of the Local-LUSC cohort (related to Figure 3c)

Hugo_Sym	Entrez_Ge	Center	NCBI_Buil	Chromosor	Start_Posit	End_Positi	Strand	Variant_Cla
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Nonsense
KRTAP5-8	57830	UNKNO	hg38	chr11	71538233	71538233	+	Missense
CACNA1C	775	UNKNO	hg38	chr12	2685771	2685771	+	Missense
TP53	7157	UNKNO	hg38	chr17	7673803	7673803	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8979931	8979931	+	Missense
FLG		UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Splice_Site
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
KMT2C		UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
CACNA1C		UNKNO	hg38	chr12	2685755	2685755	+	Missense
CACNA1C		UNKNO	hg38	chr12	2685771	2685771	+	Missense
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
RP11-473M10.3		UNKNO	hg38	chr13	63746783	63746783	+	Splice_Site
TP53		UNKNO	hg38	chr17	7673824	7673824	+	Nonsense
OBSCN		UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
EGFR		UNKNO	hg38	chr7	55181378	55181378	+	Missense
EGFR		UNKNO	hg38	chr7	55191822	55191822	+	Missense
TP53		UNKNO	hg38	chr17	7673811	7673811	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Splice_Site
SYNE1		UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
PRUNE2		UNKNO	hg38	chr9	76703628	76703628	+	Missense
ZFHX3		UNKNO	hg38	chr16	72950696	72950696	+	Missense
ZNF469		UNKNO	hg38	chr16	88429693	88429693	+	Missense
ZNF469		UNKNO	hg38	chr16	88434477	88434477	+	Missense
TP53		UNKNO	hg38	chr17	7676229	7676229	+	Missense
RYR1		UNKNO	hg38	chr19	38565383	38565383	+	Missense
PCNT		UNKNO	hg38	chr21	46334635	46334635	+	Missense
CACNA1C		UNKNO	hg38	chr12	2685771	2685771	+	Missense
EGFR	1956	UNKNO	hg38	chr7	55174772	55174786	+	In_Frame
TP53	7157	UNKNO	hg38	chr17	7673802	7673802	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8952939	8952939	+	Missense
CACNA1C		UNKNO	hg38	chr12	2685755	2685755	+	Missense
CACNA1C		UNKNO	hg38	chr12	2685771	2685771	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense
CACNA1C	775	UNKNO	hg38	chr12	2582895	2582895	+	Missense
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
TP53	7157	UNKNO	hg38	chr17	7674252	7674252	+	Missense
NEB	4703	UNKNO	hg38	chr2	1.51E+08	1.51E+08	+	Frame_Shi
NEB	4703	UNKNO	hg38	chr2	1.51E+08	1.51E+08	+	Missense
EGFR	1956	UNKNO	hg38	chr7	55191822	55191822	+	Missense
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72958249	72958250	+	Frame_Shi
TP53	7157	UNKNO	hg38	chr17	7674221	7674221	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8935421	8935421	+	Missense
PCNT	5116	UNKNO	hg38	chr21	46401686	46401687	+	Frame_Shi
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	In_Frame
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Nonsense
FAT4	79633	UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Frame_Shi
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense
KRTAP5-8	57830	UNKNO	hg38	chr11	71538146	71538146	+	Missense
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site

Gene	ID		Build	Chr	Start	End	Strand	Variant Type
PCNT	5116	UNKNO	hg38	chr21	46432056	46432059	+	Frame_Shi
PCNT	5116	UNKNO	hg38	chr21	46432066	46432066	+	Missense_
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Nonsense
KRTAP5-8	57830	UNKNO	hg38	chr11	71538234	71538263	+	In_Frame_
PCNT	5116	UNKNO	hg38	chr21	46385960	46385960	+	Frame_Shi
PCNT	5116	UNKNO	hg38	chr21	46385961	46385961	+	Missense_
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense_
NEB	4703	UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Missense_
FAT4	79633	UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense_
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Splice_Site
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Splice_Site
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Missense_
EGFR	1956	UNKNO	hg38	chr7	55155904	55155904	+	Missense_
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Splice_Site
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense_
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Nonsense
TP53	7157	UNKNO	hg38	chr17	7674221	7674221	+	Missense_
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense_
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
RP11-473M10.3		UNKNO	hg38	chr13	63746783	63746783	+	Splice_Site
ZNF469		UNKNO	hg38	chr16	88437198	88437198	+	Missense_
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Frame_Shi
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Frame_Shi
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
RP11-473M10.3		UNKNO	hg38	chr13	63746783	63746783	+	Splice_Site
MUC16		UNKNO	hg38	chr19	8858600	8858600	+	Splice_Site
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense_
KRTAP5-8	57830	UNKNO	hg38	chr11	71538233	71538233	+	Missense_
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense_
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense_
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense_
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Nonsense_
KRTAP5-8	57830	UNKNO	hg38	chr11	71538204	71538233	+	In_Frame_
TP53	7157	UNKNO	hg38	chr17	7673764	7673764	+	Nonsense_
TP53	7157	UNKNO	hg38	chr17	7676054	7676055	+	Frame_Shi
RYR1	6261	UNKNO	hg38	chr19	38512117	38512117	+	Missense_
PRUNE2	158471	UNKNO	hg38	chr9	76624467	76624467	+	Missense_
KRTAP5-8	57830	UNKNO	hg38	chr11	71538232	71538261	+	In_Frame_
MUC16	94025	UNKNO	hg38	chr19	8962411	8962411	+	Missense_
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense_
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	In_Frame_
ZFHX3	463	UNKNO	hg38	chr16	72957799	72957816	+	In_Frame_
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
KRTAP5-8	57830	UNKNO	hg38	chr11	71538232	71538261	+	In_Frame_
ZFHX3	463	UNKNO	hg38	chr16	72797500	72797500	+	Nonsense_
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense_
TP53	7157	UNKNO	hg38	chr17	7674258	7674259	+	Frame_Shi
TP53	7157	UNKNO	hg38	chr17	7674259	7674260	+	Frame_Shi
EGFR	1956	UNKNO	hg38	chr7	55174775	55174789	+	In_Frame_
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense_
EGFR	1956	UNKNO	hg38	chr7	55174772	55174786	+	In_Frame_
EGFR	1956	UNKNO	hg38	chr7	55181378	55181378	+	Missense_
KRTAP5-8	57830	UNKNO	hg38	chr11	71538202	71538261	+	In_Frame_
CACNA1C	775	UNKNO	hg38	chr12	2504867	2504867	+	Nonsense_
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense_
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense_
ZNF469	84627	UNKNO	hg38	chr16	88429593	88429593	+	Frame_Shi
EGFR	1956	UNKNO	hg38	chr7	55191822	55191822	+	Missense_

Gene	ID		Build	Chr	Start	End	Strand	Variant
RYR1	6261	UNKNO	hg38	chr19	38489366	38489368	+	In_Frame
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
FAT4	79633	UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense
EGFR	1956	UNKNO	hg38	chr7	55191822	55191822	+	Missense
ZNF469	84627	UNKNO	hg38	chr16	88433969	88433980	+	In_Frame
TP53	7157	UNKNO	hg38	chr17	7673811	7673811	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8891178	8891178	+	Missense
EGFR	1956	UNKNO	hg38	chr7	55174774	55174775	+	Frame_Shi
EGFR	1956	UNKNO	hg38	chr7	55174777	55174792	+	Frame_Shi
TP53	7157	UNKNO	hg38	chr17	7670700	7670700	+	Missense
NEB	4703	UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
PRUNE2	158471	UNKNO	hg38	chr9	76854195	76854195	+	Missense
RP11-473M10.3		UNKNO	hg38	chr13	63746743	63746743	+	Splice_Site
PCNT	5116	UNKNO	hg38	chr21	46399613	46399613	+	Missense
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Nonsense
NEB	4703	UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Frame_Shi
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
FAT4	79633	UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense
EGFR	1956	UNKNO	hg38	chr7	55191822	55191822	+	Missense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense
PRUNE2	158471	UNKNO	hg38	chr9	76703344	76703344	+	Missense
ZNF469	84627	UNKNO	hg38	chr16	88433597	88433597	+	Missense
RYR1	6261	UNKNO	hg38	chr19	38469003	38469003	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
MUC16		UNKNO	hg38	chr19	8977376	8977376	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
CACNA1C		UNKNO	hg38	chr12	2666736	2666736	+	Missense
MUC16		UNKNO	hg38	chr19	8863399	8863399	+	Missense
OBSCN		UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
ZNF469		UNKNO	hg38	chr16	88433723	88433723	+	Missense
TP53		UNKNO	hg38	chr17	7674953	7674953	+	Missense
RYR1		UNKNO	hg38	chr19	38505893	38505893	+	Missense
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
NEB	4703	UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense
PRUNE2	158471	UNKNO	hg38	chr9	76703458	76703460	+	In_Frame
KRTAP5-8	57830	UNKNO	hg38	chr11	71538530	71538530	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8910493	8910493	+	Missense
RYR1	6261	UNKNO	hg38	chr19	38565769	38565769	+	Missense
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Nonsense
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
OBSCN	84033	UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
NEB	4703	UNKNO	hg38	chr2	1.51E+08	1.51E+08	+	Missense
NEB	4703	UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
FAT4	79633	UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
PLEC	5339	UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense
PRUNE2	158471	UNKNO	hg38	chr9	76655470	76655470	+	Missense

Gene	ID		Build	Chr	Start	End	Strand	Type
KRTAP5-8	57830	UNKNO	hg38	chr11	71538119	71538119	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72787502	72787502	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72796552	72796552	+	Missense
ZNF469	84627	UNKNO	hg38	chr16	88429439	88429439	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8965141	8965141	+	Missense
RYR1	6261	UNKNO	hg38	chr19	38505861	38505861	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72794710	72794710	+	Missense
ZNF469	84627	UNKNO	hg38	chr16	88430387	88430387	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8896089	8896089	+	Splice_Site
MUC16	94025	UNKNO	hg38	chr19	8956807	8956807	+	Missense
RYR1	6261	UNKNO	hg38	chr19	38507826	38507826	+	Splice_Site
FLG	2312	UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
PRUNE2	158471	UNKNO	hg38	chr9	76703504	76703504	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8898652	8898652	+	Missense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72958722	72958722	+	Missense
TP53	7157	UNKNO	hg38	chr17	7675094	7675094	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8861026	8861026	+	Missense
RYR1	6261	UNKNO	hg38	chr19	38585027	38585027	+	Nonsense
PCNT	5116	UNKNO	hg38	chr21	46349790	46349790	+	Missense
OBSCN		UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
OBSCN		UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
NEB		UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Frame_Shi
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Nonsense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Splice_Site
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Nonsense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
FAT4		UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense
PLEC		UNKNO	hg38	chr8	1.44E+08	1.44E+08	+	Missense
PRUNE2		UNKNO	hg38	chr9	76706347	76706347	+	Missense
CACNA1C		UNKNO	hg38	chr12	2606987	2606987	+	Frame_Shi
TP53		UNKNO	hg38	chr17	7676040	7676040	+	Missense
MUC16		UNKNO	hg38	chr19	8964537	8964537	+	Missense
RYR1		UNKNO	hg38	chr19	38510556	38510557	+	Frame_Shi
TP53	7157	UNKNO	hg38	chr17	7676097	7676097	+	Nonsense
PCNT	5116	UNKNO	hg38	chr21	46428548	46428548	+	Missense
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72958642	72958642	+	Nonsense
MUC16	94025	UNKNO	hg38	chr19	8904971	8904971	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8946438	8946438	+	Missense
EGFR		UNKNO	hg38	chr7	55174773	55174787	+	In_Frame
RYR1		UNKNO	hg38	chr19	38587386	38587386	+	Missense

Gene	ID		Build	Chr	Start	End	Strand	Type
KMT2C	58508	UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
FLG		UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense
FLG		UNKNO	hg38	chr1	1.52E+08	1.52E+08	+	Missense
OBSCN		UNKNO	hg38	chr1	2.28E+08	2.28E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Nonsense
TTN		UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Nonsense
FAT4		UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Missense
SYNE1		UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Nonsense
SYNE1		UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
IGF2R		UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Missense
KMT2C		UNKNO	hg38	chr7	1.52E+08	1.52E+08	+	Missense
PRUNE2		UNKNO	hg38	chr9	76707698	76707698	+	Missense
TP53		UNKNO	hg38	chr17	7673782	7673782	+	Missense
MUC16		UNKNO	hg38	chr19	8952522	8952522	+	Missense
MUC16		UNKNO	hg38	chr19	8974664	8974664	+	Missense
MUC16		UNKNO	hg38	chr19	8975853	8975853	+	Missense
NEB	4703	UNKNO	hg38	chr2	1.52E+08	1.52E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
TTN	7273	UNKNO	hg38	chr2	1.79E+08	1.79E+08	+	Missense
FAT4	79633	UNKNO	hg38	chr4	1.25E+08	1.25E+08	+	Nonsense
SYNE1	23345	UNKNO	hg38	chr6	1.52E+08	1.52E+08	+	Missense
EGFR	1956	UNKNO	hg38	chr7	55156502	55156537	+	Splice_Site
ZFHX3	463	UNKNO	hg38	chr16	72797476	72797476	+	Missense
ZFHX3	463	UNKNO	hg38	chr16	72798289	72798289	+	Missense
ZNF469	84627	UNKNO	hg38	chr16	88434470	88434470	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8862940	8862940	+	Splice_Site
MUC16	94025	UNKNO	hg38	chr19	8958939	8958939	+	Missense
MUC16	94025	UNKNO	hg38	chr19	8977261	8977261	+	Missense
PCNT	5116	UNKNO	hg38	chr21	46385979	46385979	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.61E+08	1.61E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.61E+08	1.61E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.61E+08	1.61E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.61E+08	1.61E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Missense
IGF2R	3482	UNKNO	hg38	chr6	1.6E+08	1.6E+08	+	Intron

Variant_Type	Reference	Tumor_Seq	Tumor_Seq	dbSNP_RS	dbSNP_Va	Tumor_Sample	Matched_N	Match_Nor
SNP	C	C	A			pt2	UNKNO	UNKNO
SNP	C	C	T			pt2	UNKNO	UNKNO
SNP	C	C	T			pt2	UNKNO	UNKNO
SNP	G	G	A			pt2	UNKNO	UNKNO
SNP	G	G	A			pt2	UNKNO	UNKNO
SNP	T	T	C			pt3	UNKNO	UNKNO
SNP	C	C	G			pt3	UNKNO	UNKNO
DEL	TGGGCGA	TGGGCGA	-			pt3	UNKNO	UNKNO
SNP	C	C	G			pt3	UNKNO	UNKNO
SNP	C	C	A			pt3	UNKNO	UNKNO
SNP	G	G	A			pt3	UNKNO	UNKNO
SNP	C	C	T			pt3	UNKNO	UNKNO
SNP	C	C	T			pt3	UNKNO	UNKNO
SNP	T	T	G			pt3	UNKNO	UNKNO
SNP	C	C	A			pt3	UNKNO	UNKNO
SNP	G	G	A			pt4	UNKNO	UNKNO
SNP	C	C	T			pt4	UNKNO	UNKNO
SNP	T	T	G			pt4	UNKNO	UNKNO
SNP	A	A	G			pt4	UNKNO	UNKNO
SNP	A	A	T			pt5	UNKNO	UNKNO
SNP	T	T	C			pt5	UNKNO	UNKNO
SNP	G	G	A			pt5	UNKNO	UNKNO
SNP	C	C	T			pt5	UNKNO	UNKNO
SNP	C	C	A			pt5	UNKNO	UNKNO
SNP	G	G	A			pt5	UNKNO	UNKNO
SNP	G	G	A			pt5	UNKNO	UNKNO
SNP	C	C	A			pt5	UNKNO	UNKNO
SNP	G	G	A			pt5	UNKNO	UNKNO
SNP	C	C	T			pt7	UNKNO	UNKNO
DEL	GGAATTA	GGAATTA	-			pt9	UNKNO	UNKNO
SNP	C	C	T			pt9	UNKNO	UNKNO
SNP	G	G	A			pt9	UNKNO	UNKNO
SNP	G	G	A			pt10	UNKNO	UNKNO
SNP	C	C	T			pt10	UNKNO	UNKNO
SNP	C	C	T			pt11	UNKNO	UNKNO
SNP	C	C	A			pt11	UNKNO	UNKNO
SNP	G	G	T			pt11	UNKNO	UNKNO
SNP	A	A	G			pt11	UNKNO	UNKNO
SNP	C	C	G			pt11	UNKNO	UNKNO
SNP	G	G	A			pt11	UNKNO	UNKNO
SNP	C	C	T			pt11	UNKNO	UNKNO
SNP	C	C	G			pt11	UNKNO	UNKNO
DEL	GC	GC	-			pt12	UNKNO	UNKNO
SNP	C	C	A			pt12	UNKNO	UNKNO
SNP	T	T	G			pt12	UNKNO	UNKNO
SNP	G	G	A			pt12	UNKNO	UNKNO
DEL	CC	CC	-			pt12	UNKNO	UNKNO
SNP	G	G	A			pt12	UNKNO	UNKNO
SNP	G	G	A			pt12	UNKNO	UNKNO
DEL	GT	GT	-			pt12	UNKNO	UNKNO
SNP	C	C	T			pt13	UNKNO	UNKNO
DEL	CAC	CAC	-			pt13	UNKNO	UNKNO
SNP	G	G	A			pt13	UNKNO	UNKNO
SNP	G	G	A			pt13	UNKNO	UNKNO
DEL	CG	CG	-			pt13	UNKNO	UNKNO
SNP	G	G	T			pt13	UNKNO	UNKNO
SNP	C	C	T			pt13	UNKNO	UNKNO
SNP	C	C	T			pt13	UNKNO	UNKNO

DEL	GAGG	GAGG	-			pt13	UNKNO	UNKNO
SNP	C	C	A			pt13	UNKNO	UNKNO
SNP	C	C	A			pt14	UNKNO	UNKNO
DEL	GTGGCTC	GTGGCTC	-			pt14	UNKNO	UNKNO
DEL	C	C	-			pt14	UNKNO	UNKNO
SNP	G	G	A			pt14	UNKNO	UNKNO
DNP	TC	TC	AA			pt15	UNKNO	UNKNO
SNP	G	G	A			pt15	UNKNO	UNKNO
SNP	T	T	C			pt15	UNKNO	UNKNO
SNP	A	A	T			pt15	UNKNO	UNKNO
SNP	G	G	T			pt15	UNKNO	UNKNO
SNP	G	G	T			pt15	UNKNO	UNKNO
SNP	G	G	A			pt15	UNKNO	UNKNO
SNP	A	A	T			pt15	UNKNO	UNKNO
SNP	C	C	T			pt15	UNKNO	UNKNO
SNP	G	G	A			pt15	UNKNO	UNKNO
SNP	G	G	A			pt15	UNKNO	UNKNO
SNP	C	C	T			pt16	UNKNO	UNKNO
SNP	C	C	T			pt16	UNKNO	UNKNO
SNP	T	T	G			pt16	UNKNO	UNKNO
SNP	G	G	A			pt16	UNKNO	UNKNO
DEL	GGCC	GGCC	-			pt17	UNKNO	UNKNO
DEL	GGAA	GGAA	-			pt17	UNKNO	UNKNO
SNP	C	C	T			pt18	UNKNO	UNKNO
SNP	T	T	G			pt18	UNKNO	UNKNO
SNP	C	C	T			pt18	UNKNO	UNKNO
SNP	G	G	C			pt19	UNKNO	UNKNO
SNP	C	C	T			pt19	UNKNO	UNKNO
SNP	C	C	T			pt19	UNKNO	UNKNO
SNP	A	A	G			pt20	UNKNO	UNKNO
SNP	G	G	A			pt20	UNKNO	UNKNO
SNP	C	C	T			pt21	UNKNO	UNKNO
SNP	G	G	A			pt21	UNKNO	UNKNO
DEL	GTGGCTC	GTGGCTC	-			pt21	UNKNO	UNKNO
SNP	C	C	A			pt21	UNKNO	UNKNO
INS	-	-	CC			pt21	UNKNO	UNKNO
SNP	G	G	A			pt21	UNKNO	UNKNO
SNP	G	G	A			pt22	UNKNO	UNKNO
DEL	CCGTGGC	CCGTGGC	-			pt22	UNKNO	UNKNO
SNP	C	C	T			pt22	UNKNO	UNKNO
SNP	C	C	T			pt23	UNKNO	UNKNO
DEL	CCC	CCC	-			pt23	UNKNO	UNKNO
DEL	CCGCCGC	CCGCCGC	-			pt23	UNKNO	UNKNO
SNP	C	C	T			pt25	UNKNO	UNKNO
DEL	CCGTGGC	CCGTGGC	-			pt26	UNKNO	UNKNO
SNP	G	G	A			pt26	UNKNO	UNKNO
SNP	C	C	T			pt28	UNKNO	UNKNO
INS	-	-	C			pt28	UNKNO	UNKNO
INS	-	-	GTAG			pt28	UNKNO	UNKNO
DEL	ATTAAGA	ATTAAGA	-			pt29	UNKNO	UNKNO
SNP	G	G	C			pt30	UNKNO	UNKNO
DEL	GGAATTA	GGAATTA	-			pt30	UNKNO	UNKNO
SNP	C	C	T			pt30	UNKNO	UNKNO
DEL	CTGTGGC	CTGTGGC	-			pt30	UNKNO	UNKNO
SNP	G	G	A			pt30	UNKNO	UNKNO
SNP	C	C	T			pt30	UNKNO	UNKNO
SNP	T	T	G			pt31	UNKNO	UNKNO
SNP	C	C	A			pt31	UNKNO	UNKNO
DEL	C	C	-			pt31	UNKNO	UNKNO
SNP	T	T	G			pt32	UNKNO	UNKNO

DEL	GCA	GCA	-			pt32	UNKNO	UNKNO
SNP	G	G	A			pt33	UNKNO	UNKNO
SNP	G	G	A			pt33	UNKNO	UNKNO
SNP	T	T	G			pt33	UNKNO	UNKNO
DEL	GCCTGTT	GCCTGTT	-			pt33	UNKNO	UNKNO
SNP	A	A	G			pt33	UNKNO	UNKNO
SNP	G	G	A			pt33	UNKNO	UNKNO
DEL	AA	AA	-			pt34	UNKNO	UNKNO
DEL	TAAGAGA	TAAGAGA	-			pt34	UNKNO	UNKNO
SNP	G	G	A			pt34	UNKNO	UNKNO
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SNP	G	G	A			pt35	UNKNO	UNKNO
SNP	C	C	A			pt35	UNKNO	UNKNO
SNP	C	C	T			pt35	UNKNO	UNKNO
DNP	TG	TG	CT			pt35	UNKNO	UNKNO
SNP	C	C	T			pt35	UNKNO	UNKNO
SNP	C	C	T			pt35	UNKNO	UNKNO
SNP	C	C	T			pt35	UNKNO	UNKNO
SNP	C	C	T			pt35	UNKNO	UNKNO
SNP	G	G	T			pt35	UNKNO	UNKNO
SNP	G	G	A			pt36	UNKNO	UNKNO
INS	-	-	T			pt36	UNKNO	UNKNO
SNP	C	C	T			pt36	UNKNO	UNKNO
SNP	C	C	T			pt36	UNKNO	UNKNO
SNP	T	T	G			pt36	UNKNO	UNKNO
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SNP	G	G	T			pt38	UNKNO	UNKNO
SNP	T	T	A			pt39	UNKNO	UNKNO
SNP	C	C	T			pt39	UNKNO	UNKNO
SNP	C	C	T			pt42	UNKNO	UNKNO
SNP	G	G	T			pt43	UNKNO	UNKNO
SNP	C	C	T			pt43	UNKNO	UNKNO
SNP	C	C	T			pt43	UNKNO	UNKNO
SNP	G	G	A			pt44	UNKNO	UNKNO
SNP	G	G	A			pt44	UNKNO	UNKNO
SNP	T	T	A			pt44	UNKNO	UNKNO
SNP	G	G	A			pt44	UNKNO	UNKNO
SNP	G	G	A			pt45	UNKNO	UNKNO
SNP	G	G	T			pt45	UNKNO	UNKNO
SNP	C	C	A			pt45	UNKNO	UNKNO
SNP	C	C	A			pt45	UNKNO	UNKNO
DEL	GGG	GGG	-			pt45	UNKNO	UNKNO
SNP	G	G	T			pt45	UNKNO	UNKNO
SNP	G	G	T			pt45	UNKNO	UNKNO
SNP	G	G	T			pt45	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO

SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	C	C	A			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt46	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
SNP	G	G	T			pt47	UNKNO	UNKNO
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SNP	A	A	G			pt48	UNKNO	UNKNO
SNP	T	T	A			pt48	UNKNO	UNKNO
SNP	G	G	T			pt48	UNKNO	UNKNO
SNP	G	G	T			pt48	UNKNO	UNKNO
SNP	C	C	T			pt49	UNKNO	UNKNO
SNP	C	C	T			pt49	UNKNO	UNKNO
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SNP	G	G	T			pt50	UNKNO	UNKNO
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SNP	A	A	T			pt5	UNKNO UNKNO
SNP	A	A	T			pt11	UNKNO UNKNO

Match_Nor	Tumor_Val	Tumor_Val	Match_Nor	Match_Nor	Verification	Validation	Mutation_S	Sequencin
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UNKNOWN

UNKNOWN

Sequence	Validation	Score	BAM_File	Sequencer	Tumor_Sar	Matched_N	Annotation	Protein_Ch
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.E8619*
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UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.T840A
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.G20158R
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UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.C255F
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.E1865K
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.T1870M
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST00000611641.1	
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST00000611641.1	
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.G266*
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UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.T790M
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.L858R
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.F270S
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UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.T1870M
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.ELREA7(
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.R273H
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.S7944L
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.E1865K
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.T1870M
UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.G6913D
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UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.T6028N
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UNKNO	UNKNOWN			UNKNO	UNKNO	UNKNO	ENST0000	p.P2757T
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UNKNO	UNKNOWN		UNKNO	UNKNO	UNKNO	ENST0000 p.E718D
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Refseq_mR	Refseq_pro	SwissProt	SwissProt	Description	Gencode_X	HGNC_HG	HGNC_Sta	HGNC_Loc
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_02104	NP_06638	O75690	KRA58_HU	keratin ass	AY360461	HGNC:236	Approved	gene with p
NM_19946	NP_95563	Q13936	CAC1C_H	calcium voltage-gated		HGNC:139	Approved	gene with p
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with p
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with p
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with p
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with p
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_18296	NP_89200	Q8NF91	SYNE1_H	spectrin rep	KF458330	HGNC:170	Approved	gene with p
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with p
NM_19946	NP_95563	Q13936	CAC1C_H	calcium voltage-gated		HGNC:139	Approved	gene with p
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with p
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine meth	AY024361	HGNC:137	Approved	gene with p
		Q15911	ZFHX3_HU	zinc finger homeobox		HGNC:777	Approved	gene with p
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with p
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with p
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with p
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with p
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_02458	NP_07885	Q6V0I7	FAT4_HUN	FAT atypic	AY356402	HGNC:231	Approved	gene with p
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with p
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with p
NM_02104	NP_06638	O75690	KRA58_HU	keratin ass	AY360461	HGNC:236	Approved	gene with p

NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with
NM_02104	NP_06638	O75690	KRA58_HL	keratin ass	AY360461	HGNC:236	Approved	gene with
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with
NM_02458	NP_07885	Q6V0I7	FAT4_HUN	FAT atypic	AY356402	HGNC:231	Approved	gene with
NM_18296	NP_89200	Q8NF91	SYNE1_Hl	spectrin re	KF458330	HGNC:170	Approved	gene with
NM_00087	NP_00086	P11717	MPRI_HUN	insulin like	Y00285	HGNC:546	Approved	gene with
NM_00087	NP_00086	P11717	MPRI_HUN	insulin like	Y00285	HGNC:546	Approved	gene with
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine meth	AY024361	HGNC:137	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine meth	AY024361	HGNC:137	Approved	gene with
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with
)								
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
NM_02104	NP_06638	O75690	KRA58_HL	keratin ass	AY360461	HGNC:236	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine meth	AY024361	HGNC:137	Approved	gene with
NM_02104	NP_06638	O75690	KRA58_HL	keratin ass	AY360461	HGNC:236	Approved	gene with
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with
NM_01522	NP_05604	Q8WUY3	PRUN2_H	prune hom	BC022571	HGNC:252	Approved	gene with
NM_02104	NP_06638	O75690	KRA58_HL	keratin ass	AY360461	HGNC:236	Approved	gene with
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with
777del		Q15911	ZFHX3_Hl	zinc finger homeobox		HGNC:777	Approved	gene with
NM_02104	NP_06638	O75690	KRA58_HL	keratin ass	AY360461	HGNC:236	Approved	gene with
		Q15911	ZFHX3_Hl	zinc finger homeobox		HGNC:777	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with
NM_02104	NP_06638	O75690	KRA58_HL	keratin ass	AY360461	HGNC:236	Approved	gene with
NM_19946	NP_95563	Q13936	CAC1C_H	calcium voltage-gated		HGNC:139	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine meth	AY024361	HGNC:137	Approved	gene with
		Q96JG9	ZN469_HU	zinc finger	KF456226	HGNC:232	Approved	gene with
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with

NM	NP	UniProt	Gene	Description	GenBank	HGNC	Status	Type
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with p
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with p
NM_02458	NP_07885	Q6V0I7	FAT4_HUN	FAT atypic	AY356402	HGNC:231	Approved	gene with p
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with p
67del		Q96JG9	ZN469_HU	zinc finger	KF456226	HGNC:232	Approved	gene with p
NM_00127	NP_00126	P04637	P53_HUM	tumor prote	X60020	HGNC:119	Approved	gene with p
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with p
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with p
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with p
NM_00127	NP_00126	P04637	P53_HUM	tumor prote	X60020	HGNC:119	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_18296	NP_89200	Q8NF91	SYNE1_H	spectrin re	KF458330	HGNC:170	Approved	gene with p
NM_18296	NP_89200	Q8NF91	SYNE1_H	spectrin re	KF458330	HGNC:170	Approved	gene with p
NM_01522	NP_05604	Q8WUY3	PRUN2_H	prune hom	BC022571	HGNC:252	Approved	gene with p
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with p
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_02458	NP_07885	Q6V0I7	FAT4_HUN	FAT atypic	AY356402	HGNC:231	Approved	gene with p
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with p
NM_18296	NP_89200	Q8NF91	SYNE1_H	spectrin re	KF458330	HGNC:170	Approved	gene with p
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with p
NM_01522	NP_05604	Q8WUY3	PRUN2_H	prune hom	BC022571	HGNC:252	Approved	gene with p
		Q96JG9	ZN469_HU	zinc finger	KF456226	HGNC:232	Approved	gene with p
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with p
NM_00087	NP_00086	P11717	MPRI_HUN	insulin like	Y00285	HGNC:546	Approved	gene with p
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NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_20138	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with p
NM_01522	NP_05604	Q8WUY3	PRUN2_H	prune hom	BC022571	HGNC:252	Approved	gene with p
NM_02104	NP_06638	O75690	KRA58_HU	keratin ass	AY360461	HGNC:236	Approved	gene with p
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with p
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with p
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with p
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with p
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with p
NM_00127	NP_00125	Q5VST9	OBSCN_H	obscurin, c	AL670729	HGNC:157	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with p
NM_02458	NP_07885	Q6V0I7	FAT4_HUN	FAT atypic	AY356402	HGNC:231	Approved	gene with p
NM_18296	NP_89200	Q8NF91	SYNE1_H	spectrin re	KF458330	HGNC:170	Approved	gene with p
NM_20137	NP_95878	Q15149	PLEC_HU	plectin	Z54367	HGNC:906	Approved	gene with p
NM_01522	NP_05604	Q8WUY3	PRUN2_H	prune hom	BC022571	HGNC:252	Approved	gene with p

NM_02104	NP_06638	O75690	KRA58_HU	keratin ass	AY360461	HGNC:236	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
		Q96JG9	ZN469_HU	zinc finger	KF456226	HGNC:232	Approved	gene with
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine metf	AY024361	HGNC:137	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine metf	AY024361	HGNC:137	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
		Q96JG9	ZN469_HU	zinc finger	KF456226	HGNC:232	Approved	gene with
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with
NM_00201	NP_00200	P20930	FILA_HUM	filaggrin	M24355	HGNC:374	Approved	gene with
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
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NM_01522	NP_05604	Q8WUY3	PRUN2_H	prune hom	BC022571	HGNC:252	Approved	gene with
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_18296	NP_89200	Q8NF91	SYNE1_H	spectrin re	KF458330	HGNC:170	Approved	gene with
NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine metf	AY024361	HGNC:137	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
NM_00127	NP_00126	P04637	P53_HUM/	tumor prote	X60020	HGNC:119	Approved	gene with
NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_00054	NP_00053	P21817	RYR1_HU	ryanodine	U48508	HGNC:104	Approved	gene with
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with
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NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine metf	AY024361	HGNC:137	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
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NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with

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NM_17060	NP_73375	Q8NEZ4	KMT2C_H	lysine metl	AY024361	HGNC:137	Approved	gene with
		P20929	NEBU_HU	nebulin	X83957	HGNC:772	Approved	gene with
NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
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NM_13337	NP_59686	Q8WZ42	TITIN_HUN	titin	X98115	HGNC:124	Approved	gene with
NM_02458	NP_07885	Q6V0I7	FAT4_HUN	FAT atypic	AY356402	HGNC:231	Approved	gene with
NM_18296	NP_89200	Q8NF91	SYNE1_HL	spectrin re	KF458330	HGNC:170	Approved	gene with
NM_00134	NP_00133	P00533	EGFR_HU	epidermal	KF458469	HGNC:323	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
		Q15911	ZFHX3_HL	zinc finger homeobox		HGNC:777	Approved	gene with
		Q96JG9	ZN469_HU	zinc finger	KF456226	HGNC:232	Approved	gene with
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NM_02469	NP_07896	Q8WXI7	MUC16_H	mucin 16,	KF456494	HGNC:155	Approved	gene with
NM_00603	NP_00602	O95613	PCNT_HU	pericentrin	U52962	HGNC:160	Approved	gene with
NM_00087	NP_00086	P11717	MPRI_HUN	insulin like	Y00285	HGNC:546	Approved	gene with
NM_00087	NP_00086	P11717	MPRI_HUN	insulin like	Y00285	HGNC:546	Approved	gene with
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HGNC_Loc	HGNC_Pre	HGNC_Pre	HGNC_Syn	HGNC_Nam	HGNC_Chr	HGNC_Dat	HGNC_Dat	HGNC_Dat
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, TI		2q31.2	2017-03-24		2004-02-13
protein-coding gene			KRTAP5.8, UHSKerB		11q13.4	2014-11-19		
protein-cod	CCHL1A1,	"calcium cl	Cav1.2, CACH2, CACI		12p13.33	2017-03-24		2016-02-04
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-coding gene			CA125, FLJ14303		19p13.2	2015-09-04		2006-03-14
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-25
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-coding gene			CA125, FLJ14303		19p13.2	2015-09-04		2006-03-14
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, TI		2q31.2	2017-03-24		2004-02-13
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, TI		2q31.2	2017-03-24		2004-02-13
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, TI		2q31.2	2017-03-24		2004-02-13
protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24		2016-04-29
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN		8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-cod	CCHL1A1,	"calcium cl	Cav1.2, CACH2, CACI		12p13.33	2017-03-24		2016-02-04
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-cod	NEM2		NEB177D	"nemaline	2q23.3	2017-03-24		
protein-cod	NEM2		NEB177D	"nemaline	2q23.3	2017-03-24		
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protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR		7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-cod	ATBF1	"AT-binding	ZNF927		16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-coding gene			CA125, FLJ14303		19p13.2	2015-09-04		2006-03-14
protein-cod	PCNT2	"pericentrin	KEN, KIAA	"kendrin", "	21q22.3	2014-11-19	2005-11-03	2008-01-30
protein-coding gene					1q21.3	2017-03-24		
protein-coding gene			KIAA1556, UNC89, KI		1q42.13	2017-03-24		
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, TI		2q31.2	2017-03-24		2004-02-13
protein-coding gene		"FAT tumo	CDHF14, F	"cadherin-r	4q28.1	2015-09-01		2013-05-31
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN		8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN		8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-coding gene			KRTAP5.8, UHSKerB		11q13.4	2014-11-19		

protein-cod	PCNT2	"pericentrin	KEN, KIAA	"kendrin", "	21q22.3	2014-11-19	2005-11-03	2008-01-30
protein-cod	PCNT2	"pericentrin	KEN, KIAA	"kendrin", "	21q22.3	2014-11-19	2005-11-03	2008-01-30
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN		8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
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protein-coding gene					1q21.3	2017-03-24		
protein-cod	NEM2		NEB177D	"nemaline	2q23.3	2017-03-24		
protein-coding gene	"FAT tumo	CDHF14, F	"cadherin-r	4q28.1	2015-09-01		2013-05-31
protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24		2016-04-29
protein-coding gene	"insulin-like	CD222, MF	"cation-ind	6q25.3	2017-03-24		2015-11-23
protein-coding gene	"insulin-like	CD222, MF	"cation-ind	6q25.3	2017-03-24		2015-11-23
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-25
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN		8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-coding gene			KIAA1556, UNC89, KI	1q42.13	2017-03-24		
protein-cod	CMD1G	"cardiomyo	CMPD4, FLJ32040, TI	2q31.2	2017-03-24		2004-02-13
protein-coding gene					1q21.3	2017-03-24		
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-coding gene					1q21.3	2017-03-24		
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN		8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-cod	CMD1G	"cardiomyo	CMPD4, FLJ32040, TI	2q31.2	2017-03-24		2004-02-13
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
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protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24		2016-01-25
protein-cod	C9orf65, K	"chromoso	BMCC1, B	"olfaxin"	9q21.2	2016-10-05	2006-11-24	2016-06-06
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-coding gene					1q21.3	2017-03-24		
protein-coding gene			KIAA1556, UNC89, KI	1q42.13	2017-03-24		
protein-cod	ATBF1	"AT-binding	ZNF927		16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-cod	ATBF1	"AT-binding	ZNF927		16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
protein-coding gene					1q21.3	2017-03-24		
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-25
protein-cod	CMD1G	"cardiomyo	CMPD4, FLJ32040, TI	2q31.2	2017-03-24		2004-02-13
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-25
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-25
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-cod	CCHL1A1,	"calcium ch	Cav1.2, CACH2, CAC	12p13.33	2017-03-24		2016-02-04
protein-coding gene					1q21.3	2017-03-24		
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-coding gene			KIAA1858		16q24.2	2016-01-26		
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-25

protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24		2016-01-2
protein-coding gene			KIAA1556, UNC89, KI	1q42.13	2017-03-24		
protein-coding gene	"FAT tumo	CDHF14, F	"cadherin-r	4q28.1	2015-09-01		2013-05-3
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-2
protein-coding gene			KIAA1858	16q24.2	2016-01-26		
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-2
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protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24		2008-01-16
protein-cod	NEM2		NEB177D	"nemaline	2q23.3	2017-03-24		
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, Tl	2q31.2	2017-03-24		2004-02-13
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protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24		2016-04-29
protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24		2016-04-29
protein-cod	C9orf65, K	"chromoso	BMCC1, Bl	"olfaxin"	9q21.2	2016-10-05	2006-11-24	2016-06-06
protein-cod	PCNT2	"pericentrin	KEN, KIAA	"kendrin", "	21q22.3	2014-11-19	2005-11-03	2008-01-30
protein-coding gene				1q21.3	2017-03-24		
protein-cod	NEM2		NEB177D	"nemaline	2q23.3	2017-03-24		
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protein-coding gene	"FAT tumo	CDHF14, F	"cadherin-r	4q28.1	2015-09-01		2013-05-3
protein-cod	ERBB	"epidermal	ERBB1	"erythrobla	7p11.2	2017-03-24		2010-06-2
protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24		2016-04-29
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN	8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-cod	C9orf65, K	"chromoso	BMCC1, Bl	"olfaxin"	9q21.2	2016-10-05	2006-11-24	2016-06-06
protein-coding gene			KIAA1858	16q24.2	2016-01-26		
protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24		2016-01-2
protein-coding gene	"insulin-like	CD222, MF	"cation-ind	6q25.3	2017-03-24		2015-11-23
protein-coding gene			KIAA1556, UNC89, KI	1q42.13	2017-03-24		
protein-cod	NEM2		NEB177D	"nemaline	2q23.3	2017-03-24		
protein-cod	CMD1G	"cardiomyc	CMPD4, FLJ32040, Tl	2q31.2	2017-03-24		2004-02-13
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN	8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-cod	C9orf65, K	"chromoso	BMCC1, Bl	"olfaxin"	9q21.2	2016-10-05	2006-11-24	2016-06-06
protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24		2016-01-2
protein-coding gene				1q21.3	2017-03-24		
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protein-coding gene			KIAA1556, UNC89, KI	1q42.13	2017-03-24		
protein-coding gene			KIAA1556, UNC89, KI	1q42.13	2017-03-24		
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protein-coding gene	"FAT tumo	CDHF14, F	"cadherin-r	4q28.1	2015-09-01		2013-05-31
protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24		2016-04-29
protein-cod	EBS1, PLE	"plectin 1,	PCN, PLTN	8q24.3	2016-10-05	2010-02-04	2010-02-04
protein-cod	C9orf65, K	"chromoso	BMCC1, Bl	"olfaxin"	9q21.2	2016-10-05	2006-11-24	2016-06-06

protein-coding gene			KRTAP5.8, UHSKerB	11q13.4	2014-11-19		
protein-cod	ATBF1	"AT-bindin	ZNF927	16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
protein-cod	ATBF1	"AT-bindin	ZNF927	16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
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protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24	2016-01-25
protein-cod	CMD1G	"cardiomyo	CMPD4, FLJ32040, TI	2q31.2	2017-03-24	2004-02-13
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-cod	ATBF1	"AT-bindin	ZNF927	16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
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protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24	2016-01-25
protein-coding gene				1q21.3	2017-03-24		
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protein-cod	CMD1G	"cardiomyo	CMPD4, FLJ32040, TI	2q31.2	2017-03-24	2004-02-13
protein-cod	C9orf65, K	"chromoso	BMCC1, BI	"olfaxin"	9q21.2	2016-10-05	2006-11-24	2016-06-06
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-cod	C6orf98	"chromoso	SYNE-1B,	"myocyte n	6q25.2	2017-03-24	2016-04-29
protein-cod	MLL3	"myeloid/ly	KIAA1506, HALR	7q36.1	2016-10-05	2013-05-09	2016-02-12
protein-cod	ATBF1	"AT-bindin	ZNF927	16q22.2-q2	2017-06-08	2007-08-09	2007-08-09
protein-coding gene			p53, LFS1	"Li-Fraume	17p13.1	2017-03-24	2008-01-16
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-cod	MHS, MHS	"central co	RYR, PPP	"protein ph	19q13.2	2017-03-24	2016-01-25
protein-cod	PCNT2	"pericentrin	KEN, KIAA	"kendrin", "	21q22.3	2014-11-19	2005-11-03	2008-01-30
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protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14
protein-coding gene			CA125, FLJ14303	19p13.2	2015-09-04		2006-03-14

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protein-coding gene	"FAT tumoi	CDHF14, F	"cadherin-r	4q28.1	2015-09-01		2013-05-31
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protein-coding gene		KIAA1858		16q24.2	2016-01-26		
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protein-cod	PCNT2	"pericentrin	KEN, KIAA	"kendrin", "	21q22.3	2014-11-1!	2005-11-0!	2008-01-3(
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protein-coding gene	insulin-like	CD222, MF	cation-inde	6q25.3	2017/3/24		2015/11/23
protein-coding gene	insulin-like	CD222, MF	cation-inde	6q25.3	2017/3/24		2015/11/23
protein-coding gene	insulin-like	CD222, MF	cation-inde	6q25.3	2017/3/24		2015/11/23
protein-coding gene	insulin-like	CD222, MF	cation-inde	6q25.3	2017/3/24		2015/11/23
protein-coding gene	insulin-like	CD222, MF	cation-inde	6q25.3	2017/3/24		2015/11/23

HGNC_Acc	HGNC_En	HGNC_En	HGNC_Pu	HGNC_Re	HGNC_Ge	HGNC_Ge	HGNC_CC	HGNC_Ve
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
AB126077		ENSG0000	15144888	NM_02104	619	Keratin ass	CCDS4168	OTTHUMG
AF070589		ENSG0000	1650913, 1	NM_00071	1512	Calcium vo	CCDS4478	OTTHUMG
AF307851		ENSG0000	6396087, 3	NM_000546			CCDS1111	OTTHUMG
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
		ENSG0000	1505215	NM_00522	1096	Erb-b2 rece	CCDS5514	OTTHUMG
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X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
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AB018339		ENSG0000	9872452, 1	NM_18296	1252	Spectrin re	CCDS5235	OTTHUMG
U53204		ENSG0000	8633055, 8	NM_00044	939	Plakins	CCDS4376	OTTHUMG
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AF307851		ENSG0000	6396087, 3	NM_000546			CCDS1111	OTTHUMG
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		ENSG0000	1505215	NM_00522	1096	Erb-b2 rece	CCDS5514	OTTHUMG
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D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class he	CCDS1090	OTTHUMG
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AB007862		ENSG0000	8812505, 9	NM_006031			CCDS3359	OTTHUMG
XM_048104		ENSG0000	2740331, 2	NM_00201	1350|863	S100 fused	CCDS3086	OTTHUMG
AJ002535		ENSG0000	11448995,	NM_05284	555|722|59	Fibronectin	CCDS1570	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
AY356402		ENSG0000	15003449	NM_02458	24	Cadherin re	CCDS3732	OTTHUMG
U53204		ENSG0000	8633055, 8	NM_00044	939	Plakins	CCDS4376	OTTHUMG
U53204		ENSG0000	8633055, 8	NM_00044	939	Plakins	CCDS4376	OTTHUMG
AB126077		ENSG0000	15144888	NM_02104	619	Keratin ass	CCDS4168	OTTHUMG

AB007862		ENSG0000 8812505, 9	NM_006031			CCDS3359 OTTHUMG
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AY356402		ENSG0000 15003449	NM_02458	24	Cadherin re	CCDS3732 OTTHUMG
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J03528		ENSG00000197081	NM_00087	471|1233	CD molecu	CCDS5273 OTTHUMG
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X90568		ENSG0000 2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442 OTTHUMG
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XM_048104		ENSG0000 2740331, 2	NM_00201	1350|863	S100 fused	CCDS3086 OTTHUMG
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BC019095		ENSG0000 16288218	NM_13881	1299	BCH doma	CCDS4798 OTTHUMG
AB126077		ENSG0000 15144888	NM_02104	619	Keratin ass	CCDS4168 OTTHUMG
AF414442		11369781	NM_02469	648	Mucins	CCDS54212
XM_048104		ENSG0000 2740331, 2	NM_00201	1350|863	S100 fused	CCDS3086 OTTHUMG
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D10250		ENSG0000 1719379, 7	NM_00688	529|28	ZF class h	CCDS1090 OTTHUMG
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		ENSG0000 1505215	NM_00522	1096	Erb-b2 rec	CCDS5514 OTTHUMG
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XM_048104		ENSG0000 2740331, 2	NM_00201	1350|863	S100 fused	CCDS3086 OTTHUMG
AF264750		ENSG0000 10819331		88|1399|48	PHD finger	CCDS5931 OTTHUMG
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J05200		ENSG0000	1862346, 16621918	287|694	Ryanodine	CCDS3301	OTTHUMG
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BC019095		ENSG0000	16288218 NM_13881	1299	BCH doma	CCDS4798	OTTHUMG
AB126077		ENSG0000	15144888 NM_02104	619	Keratin ass	CCDS4168	OTTHUMG
AF414442			11369781 NM_02469	648	Mucins	CCDS54212	
J05200		ENSG0000	1862346, 16621918	287|694	Ryanodine	CCDS3301	OTTHUMG
XM_048104		ENSG0000	2740331, 2 NM_00201	1350|863	S100 fused	CCDS3086	OTTHUMG
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AB126077		ENSG0000	15144888	NM_02104	619	Keratin ass	CCDS4168	OTTHUMG
D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class h	CCDS1090	OTTHUMG
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AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
J05200		ENSG0000	1862346, 16	621918	287|694	Ryanodine	CCDS3301	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
AF264750		ENSG0000	10819331		88|1399|48	PHD finger	CCDS5931	OTTHUMG
AF264750		ENSG0000	10819331		88|1399|48	PHD finger	CCDS5931	OTTHUMG
D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class h	CCDS1090	OTTHUMG
AB058761		ENSG0000	11347906	NG_01223	28	Zinc finger	CCDS4554	OTTHUMG
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
J05200		ENSG0000	1862346, 16	621918	287|694	Ryanodine	CCDS3301	OTTHUMG
XM_048104		ENSG0000	2740331, 2	NM_00201	1350|863	S100 fused	CCDS3086	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
BC019095		ENSG0000	16288218	NM_13881	1299	BCH doma	CCDS4798	OTTHUMG
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
AB018339		ENSG0000	9872452, 1	NM_18296	1252	Spectrin re	CCDS5235	OTTHUMG
AF264750		ENSG0000	10819331		88|1399|48	PHD finger	CCDS5931	OTTHUMG
D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class h	CCDS1090	OTTHUMG
AF307851		ENSG0000	6396087, 3	NM_000546			CCDS1111	OTTHUMG
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
J05200		ENSG0000	1862346, 16	621918	287|694	Ryanodine	CCDS3301	OTTHUMG
AB007862		ENSG0000	8812505, 9	NM_006031			CCDS3359	OTTHUMG
AF307851		ENSG0000	6396087, 3	NM_000546			CCDS1111	OTTHUMG
AB007862		ENSG0000	8812505, 9	NM_006031			CCDS3359	OTTHUMG
AF264750		ENSG0000	10819331		88|1399|48	PHD finger	CCDS5931	OTTHUMG
D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class h	CCDS1090	OTTHUMG
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	

AF264750		ENSG0000	10819331		88|1399|48	PHD finger	CCDS5931	OTTHUMG

X83957		ENSG0000	10051637,	NM_004543			CCDS4642	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
X90568		ENSG0000	2129545, 1	NM_13337	555|593|59	Fibronectin	CCDS5442	OTTHUMG
AY356402		ENSG0000	15003449	NM_02458	24	Cadherin r	CCDS3732	OTTHUMG
AB018339		ENSG0000	9872452, 1	NM_18296	1252	Spectrin re	CCDS5235	OTTHUMG
)		ENSG0000	1505215	NM_00522	1096	Erb-b2 rec	CCDS5514	OTTHUMG
D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class h	CCDS1090	OTTHUMG
D10250		ENSG0000	1719379, 7	NM_00688	529|28	ZF class h	CCDS1090	OTTHUMG
AB058761		ENSG0000	11347906	NG_01223	28	Zinc finger	CCDS4554	OTTHUMG
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
AF414442			11369781	NM_02469	648	Mucins	CCDS54212	
AB007862		ENSG0000	8812505, 9	NM_006031			CCDS3359	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG
J03528		ENSG00000197081		NM_00087	471|1233	CD molecu	CCDS5273	OTTHUMG

HGNC_OM	HGNC_Ref	HGNC_Uni	HGNC_Ens	HGNC_UC	Oreganno	Simple_Uni	chr1_a_be	chr1_a_be
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\		
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6		
114205	NM_00071	Q13936	ENSG0000	uc001qkl.3		B2RUT3|E9PDJ0|Q13917|Q1391{		
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535		
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2		
					hg38			
					hg38			
					hg38			
					hg38			
					hg38			
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225		
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535		
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2		
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\		
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\		
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\		
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22		
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377		
114205	NM_00071	Q13936	ENSG0000	uc001qkl.3	hg38	B2RUT3|E9PDJ0|Q13917|Q1391{		
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535		
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q(		
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q(		
131550	NM_00522	P00533	ENSG0000	uc003tqk.4	hg38	O00688|O00732|P06268|Q14225		
606833	NM_17060	Q8NEZ4	ENSG00000055609		hg38	Q8NC02|Q8NDF6|Q9H9P4|Q9NR		
104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719		
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535		
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2		
605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9		
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71		
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2		Q2A664|Q5T7G8|Q5T7G9|Q5VS\		
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\		
612411	NM_00129	Q6V0I7	ENSG0000	uc003ifj.5		A8K5Z6|B5MDG4|Q3LIA6|Q8TCK		
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377		
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377		
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6		

605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9
605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377
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605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
161650	NM_00116	P20929	ENSG0000	uc031rpp.1	hg38	F8WCL5|F8WCP0|Q15346|Q53Q
612411	NM_00129	Q6V0I7	ENSG0000	uc003ifj.5		A8K5Z6|B5MDG4|Q3LIA6|Q8TCK
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225
606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
					hg38	
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2	hg38	Q2A664|Q5T7G8|Q5T7G9|Q5VSU
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1		Q15148|Q16640|Q6S376|Q6S377
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\
606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
180901	NM_00054	P21817	ENSG0000	uc002oit.4		Q16314|Q16368|Q9NPK1|Q9P1U
610691	NM_00130	Q8WUY3	ENSG0000	uc010mpk	hg38	B3KYC4|B4DQH8|O15073|Q58A6
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2	hg38	Q2A664|Q5T7G8|Q5T7G9|Q5VSU
104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN\
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225
131550	NM_00522	P00533	ENSG0000	uc003tqk.4	hg38	O00688|O00732|P06268|Q14225
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
114205	NM_00071	Q13936	ENSG0000	uc001qkl.3		B2RUT3|E9PDJ0|Q13917|Q1391
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
612078	NM_00112	Q96JG9	ENSG0000	uc002fku.2	hg38	
131550	NM_00522	P00533	ENSG0000	uc003tqk.4	hg38	O00688|O00732|P06268|Q14225

180901	NM_00054	P21817	ENSG0000	uc002oit.4	hg38	Q16314|Q16368|Q9NPK1|Q9P1U
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2		Q2A664|Q5T7G8|Q5T7G9|Q5VSL
612411	NM_00129	Q6V0I7	ENSG0000	uc003ifj.5		A8K5Z6|B5MDG4|Q3LIA6|Q8TCK
131550	NM_00522	P00533	ENSG0000	uc003tqk.4	hg38	O00688|O00732|P06268|Q14225
612078	NM_00112	Q96JG9	ENSG0000	uc002fku.2	hg38	
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
610691	NM_00130	Q8WUY3	ENSG0000	uc010mpk.4		B3KYC4|B4DQH8|O15073|Q58A6
605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
612411	NM_00129	Q6V0I7	ENSG0000	uc003ifj.5		A8K5Z6|B5MDG4|Q3LIA6|Q8TCK
131550	NM_00522	P00533	ENSG0000	uc003tqk.4	hg38	O00688|O00732|P06268|Q14225
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377
610691	NM_00130	Q8WUY3	ENSG0000	uc010mpk.4		B3KYC4|B4DQH8|O15073|Q58A6
612078	NM_00112	Q96JG9	ENSG0000	uc002fku.2	hg38	
180901	NM_00054	P21817	ENSG0000	uc002oit.4		Q16314|Q16368|Q9NPK1|Q9P1U
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
					hg38	
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2		Q2A664|Q5T7G8|Q5T7G9|Q5VSL
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1		Q15148|Q16640|Q6S376|Q6S377
610691	NM_00130	Q8WUY3	ENSG0000	uc010mpk.4		B3KYC4|B4DQH8|O15073|Q58A6
000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
180901	NM_00054	P21817	ENSG0000	uc002oit.4	hg38	Q16314|Q16368|Q9NPK1|Q9P1U
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2		Q2A664|Q5T7G8|Q5T7G9|Q5VSL
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2	hg38	Q2A664|Q5T7G8|Q5T7G9|Q5VSL
608616	NM_00109	Q5VST9	ENSG0000	uc001hsq.2	hg38	Q2A664|Q5T7G8|Q5T7G9|Q5VSL
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q
161650	NM_00116	P20929	ENSG0000	uc031rpp.1		F8WCL5|F8WCP0|Q15346|Q53Q
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
612411	NM_00129	Q6V0I7	ENSG0000	uc003ifj.5	hg38	A8K5Z6|B5MDG4|Q3LIA6|Q8TCK
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
601282	NM_00044	Q15149	ENSG0000	uc064rfy.1	hg38	Q15148|Q16640|Q6S376|Q6S377
610691	NM_00130	Q8WUY3	ENSG0000	uc010mpk.4	hg38	B3KYC4|B4DQH8|O15073|Q58A6

000000575	NM_02104	O75690	ENSG0000	uc001oqr.1		Q6L8G7|Q6UTX6
104155	NM_00116	Q15911	ENSG0000	uc002fck.4	hg38	D3DWS8|O15101|Q13719
104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719
612078	NM_00112	Q96JG9	ENSG0000	uc002fku.2	hg38	
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
180901	NM_00054	P21817	ENSG0000	uc002oit.4		Q16314|Q16368|Q9NPK1|Q9P1U
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7ENY
606833	NM_17060	Q8NEZ4	ENSG00000055609		hg38	Q8NC02|Q8NDF6|Q9H9P4|Q9NR
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104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719
612078	NM_00112	Q96JG9	ENSG0000	uc002fku.2	hg38	
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
180901	NM_00054	P21817	ENSG0000	uc002oit.4		Q16314|Q16368|Q9NPK1|Q9P1U
135940	NM_00201	P20930	ENSG0000	uc001ezu.1		Q01720|Q5T583|Q9UC71
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7ENY
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7ENY
610691	NM_00130	Q8WUY3	ENSG0000	uc010mpk.4		B3KYC4|B4DQH8|O15073|Q58A6
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
104155	NM_00116	Q15911	ENSG0000	uc002fck.4	hg38	D3DWS8|O15101|Q13719
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
180901	NM_00054	P21817	ENSG0000	uc002oit.4		Q16314|Q16368|Q9NPK1|Q9P1U
605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9
					hg38	
191170	NM_00054	P04637	ENSG0000	uc060aur.1		Q15086|Q15087|Q15088|Q16535
605925	NM_00131	O95613	ENSG0000	uc002zji.4		O43152|Q7Z7C9
606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2

606833	NM_17060	Q8NEZ4	ENSG00000055609			Q8NC02|Q8NDF6|Q9H9P4|Q9NR
				hg38		
				hg38		
161650	NM_00116	P20929	ENSG0000	uc031rpp.1	hg38	F8WCL5|F8WCP0|Q15346|Q53Q
188840	NM_00125	Q8WZ42	ENSG0000	uc031rqc.3		A6NKB1|E7EQE6|E7ET18|K7EN
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612411	NM_00129	Q6V0I7	ENSG0000	uc003ifj.5		A8K5Z6|B5MDG4|Q3LIA6|Q8TCK
608441	NM_03307	Q8NF91	ENSG0000	uc003qou.4		E7EQI5|O94890|Q5JV19|Q5JV22
131550	NM_00522	P00533	ENSG0000	uc003tqk.4		O00688|O00732|P06268|Q14225
104155	NM_00116	Q15911	ENSG0000	uc002fck.4		D3DWS8|O15101|Q13719
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612078	NM_00112	Q96JG9	ENSG0000	uc002fku.2		
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606154	NM_02469	Q8WXI7	ENSG0000	uc002mkp.3		Q6ZQW5|Q96RK2
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147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5
147280	NM_00087	P11717	ENSG0000	uc003qta.4		Q7Z7G9|Q96PT5

chr1_a be	chr1_a be	chr1_a be	chr1_a be	chr1_a be	chr1_a be	chr1_a be	chr1_b be	chr1_b be

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Q16807|Q16808|Q16809|Q16810|Q16811|Q16848|Q2XN98|Q3LRW1|Q3LRW2|Q3LRW3|Q3LRW4|Q3

Q68GS5|Q92795|Q9BZS2|Q9GZX1|Q9H2C9|Q9H3C9|Q9UMD7|Q9UMD8|Q9UMG5
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|Q8N9P7|Q8TCP1|Q8WWW6|Q8WWW7|Q8WXF6|Q96N17|Q9C0A7|Q9H525|Q9H526|Q9NS36|Q9NU5
|Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383
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Q16807|Q16808|Q16809|Q16810|Q16811|Q16848|Q2XN98|Q3LRW1|Q3LRW2|Q3LRW3|Q3LRW4|Q3
Q2|Q53TG8
Q2|Q53TG8
Q68GS5|Q92795|Q9BZS2|Q9GZX1|Q9H2C9|Q9H3C9|Q9UMD7|Q9UMD8|Q9UMG5
13|Q9P222|Q9UDR7

Q16807|Q16808|Q16809|Q16810|Q16811|Q16848|Q2XN98|Q3LRW1|Q3LRW2|Q3LRW3|Q3LRW4|Q3

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Y1|Q10465|Q10466|Q15598|Q2XUS3|Q32Q60|Q4U1Z6|Q4ZG20|Q6NSG0|Q6PDB1|Q6PJP0|Q7KYM2|
7|Q9H5T6
|Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383
|Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383

|Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383

Q2|Q53TG8
7|Q9H5T6
|Q8N9P7|Q8TCP1|Q8WWW6|Q8WWW7|Q8WXF6|Q96N17|Q9C0A7|Q9H525|Q9H526|Q9NS36|Q9NU5

Q68GS5|Q92795|Q9BZS2|Q9GZX1|Q9H2C9|Q9H3C9|Q9UMD7|Q9UMD8|Q9UMG5
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13|Q9P222|Q9UDR7
|Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383
Q16807|Q16808|Q16809|Q16810|Q16811|Q16848|Q2XN98|Q3LRW1|Q3LRW2|Q3LRW3|Q3LRW4|Q3

J2|Q86YC7|Q8NHN0|Q8NHN1|Q8NHN2|Q8NHN3|Q8NHN4|Q8NHN5|Q8NHN6|Q8NHN7|Q8NHN8|Q8N
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|Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383
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Q16807|Q16808|Q16809|Q16810|Q16811|Q16848|Q2XN98|Q3LRW1|Q3LRW2|Q3LRW3|Q3LRW4|Q3
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4
3|Q5JUB6|Q5T304|Q5T476|Q6T2V6|Q6T2V7|Q8N665

J2|Q86YC7|Q8NHN0|Q8NHN1|Q8NHN2|Q8NHN3|Q8NHN4|Q8NHN5|Q8NHN6|Q8NHN7|Q8NHN8|Q8N

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Q68GS5|Q92795|Q9BZS2|Q9GZX1|Q9H2C9|Q9H3C9|Q9UMD7|Q9UMD8|Q9UMG5

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Q6S378|Q6S379|Q6S380|Q6S381|Q6S382|Q6S383											
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4

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13|Q9P222|Q9UDR7

4

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|Q8N9P7|Q8TCP1|Q8WWW6|Q8WWW7|Q8WXF6|Q96N17|Q9C0A7|Q9H525|Q9H526|Q9NS36|Q9NU

13|Q9P222|Q9UDR7

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4

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chr1_b be	chr1_b be	chr1_b be	chr1_b be	chr1_b be	chr1_b be	chr1_b be	dbSNP_AS	dbSNP_AS
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							FALSE	FALSE
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LRW5|Q86UG1|Q8J016|Q99659|Q9BTM4|Q9HAQ8|Q9NP68|Q9NPJ2|Q9NZD0|							FALSE	FALSE
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							FALSE	FALSE
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							FALSE	FALSE
LRW5|Q86UG1|Q8J016|Q99659|Q9BTM4|Q9HAQ8|Q9NP68|Q9NPJ2|Q9NZD0|							FALSE	FALSE
							FALSE	FALSE
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							FALSE	FALSE
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50|Q9UJ06|Q9UJ07|Q9ULF8								FALSE	FALSE
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								FALSE	FALSE
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								FALSE	FALSE
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