

VEP annotated somatic variants

Hugo_Symbol	Entrez_Gene_Id	Center	NCBI_Build
AADAACL2	0	.	GRCh37
AAED1	0	.	GRCh37
AASS	0	.	GRCh37
ABCA10	0	.	GRCh37
ABCA3	0	.	GRCh37
ABCA6	0	.	GRCh37
ABCA6	0	.	GRCh37
ABCA9	0	.	GRCh37
ABCC1	0	.	GRCh37
ABCC6	0	.	GRCh37
ABCC8	0	.	GRCh37
ABHD3	0	.	GRCh37
ABR	0	.	GRCh37
AC005013.5	0	.	GRCh37
AC026202.1	0	.	GRCh37
ACAD8	0	.	GRCh37
ACADM	0	.	GRCh37
ACADSB	0	.	GRCh37
ACBD3	0	.	GRCh37
ACER1	0	.	GRCh37
ACP2	0	.	GRCh37
ACPL2	0	.	GRCh37
ACSBG1	0	.	GRCh37
ACSF3	0	.	GRCh37
ACSM4	0	.	GRCh37
ACVR2B	0	.	GRCh37
ADAM15	0	.	GRCh37
ADAM17	0	.	GRCh37
ADAMTS14	0	.	GRCh37
ADAMTS2	0	.	GRCh37
ADAMTS20	0	.	GRCh37
ADAMTS4	0	.	GRCh37
ADAMTS6	0	.	GRCh37
ADAMTSL1	0	.	GRCh37
ADORA1	0	.	GRCh37
ADORA3	0	.	GRCh37
AFAP1L2	0	.	GRCh37
AFF1	0	.	GRCh37
AFF2	0	.	GRCh37
AGAP3	0	.	GRCh37
AGBL3	0	.	GRCh37
AGTR1	0	.	GRCh37
AHI1	0	.	GRCh37
AHSP	0	.	GRCh37
AIG1	0	.	GRCh37
AIM1L	0	.	GRCh37
AIM1L	0	.	GRCh37
AIPL1	0	.	GRCh37
AIRE	0	.	GRCh37
AIRE	0	.	GRCh37
AKAP9	0	.	GRCh37
AKAP9	0	.	GRCh37
AKR1B10	0	.	GRCh37
ALB	0	.	GRCh37

VEP annotated somatic variants

ALDH16A1	0	.	GRCh37
ALDH1A3	0	.	GRCh37
ALOX5	0	.	GRCh37
ALPK3	0	.	GRCh37
ALPK3	0	.	GRCh37
AMICA1	0	.	GRCh37
AMICA1	0	.	GRCh37
ANAPC1	0	.	GRCh37
ANK1	0	.	GRCh37
ANKAR	0	.	GRCh37
ANKK1	0	.	GRCh37
ANKLE2	0	.	GRCh37
ANKRD18B	0	.	GRCh37
ANKRD26	0	.	GRCh37
ANKRD28	0	.	GRCh37
ANKRD35	0	.	GRCh37
ANKRD52	0	.	GRCh37
ANKRD55	0	.	GRCh37
AOX1	0	.	GRCh37
AP002884.2	0	.	GRCh37
AP1B1	0	.	GRCh37
AP2A1	0	.	GRCh37
AP4E1	0	.	GRCh37
AP4E1	0	.	GRCh37
APBB1IP	0	.	GRCh37
APOOL	0	.	GRCh37
AQP12A	0	.	GRCh37
AQP12A	0	.	GRCh37
AQP4	0	.	GRCh37
AQPEP	0	.	GRCh37
ARF3	0	.	GRCh37
ARHGAP10	0	.	GRCh37
ARHGAP19-SLIT1	0	.	GRCh37
ARHGAP36	0	.	GRCh37
ARHGAP4	0	.	GRCh37
ARHGEF11	0	.	GRCh37
ARHGEF16	0	.	GRCh37
ARHGEF2	0	.	GRCh37
ARHGEF3	0	.	GRCh37
ARHGEF7	0	.	GRCh37
ARID3C	0	.	GRCh37
ARL5B	0	.	GRCh37
ARMC8	0	.	GRCh37
ARMCX4	0	.	GRCh37
ARMCX4	0	.	GRCh37
ARMCX4	0	.	GRCh37
ARMCX4	0	.	GRCh37
ARRB2	0	.	GRCh37
ARRDC2	0	.	GRCh37
ARRDC2	0	.	GRCh37
ARSA	0	.	GRCh37
ARVCF	0	.	GRCh37
ASB10	0	.	GRCh37
ASB14	0	.	GRCh37
ASB4	0	.	GRCh37

VEP annotated somatic variants

ASB6	0	.	GRCh37
ASIC4	0	.	GRCh37
ASPSCR1	0	.	GRCh37
ASTL	0	.	GRCh37
ASTL	0	.	GRCh37
ASTN2	0	.	GRCh37
ASXL3	0	.	GRCh37
ASZ1	0	.	GRCh37
ATG4C	0	.	GRCh37
ATL1	0	.	GRCh37
ATP11A	0	.	GRCh37
ATP13A2	0	.	GRCh37
ATP1A2	0	.	GRCh37
ATP1A4	0	.	GRCh37
ATP2C2	0	.	GRCh37
ATP5C1	0	.	GRCh37
ATP7A	0	.	GRCh37
ATP8B1	0	.	GRCh37
ATP9A	0	.	GRCh37
ATP9A	0	.	GRCh37
ATRIP	0	.	GRCh37
ATXN2L	0	.	GRCh37
AWAT1	0	.	GRCh37
AWAT2	0	.	GRCh37
AXDND1	0	.	GRCh37
AXIN1	0	.	GRCh37
B3GNT3	0	.	GRCh37
BAIAP2	0	.	GRCh37
BAIAP3	0	.	GRCh37
BBS12	0	.	GRCh37
BCKDHA	0	.	GRCh37
BCL7B	0	.	GRCh37
BCORL1	0	.	GRCh37
BEST1	0	.	GRCh37
BICD1	0	.	GRCh37
BLNK	0	.	GRCh37
BMP15	0	.	GRCh37
BNC1	0	.	GRCh37
BPIFB2	0	.	GRCh37
BPTF	0	.	GRCh37
BRCA1	0	.	GRCh37
BRCA1	0	.	GRCh37
BRCA1	0	.	GRCh37
BRCA2	0	.	GRCh37
BRD9	0	.	GRCh37
BRWD1	0	.	GRCh37
BSDC1	0	.	GRCh37
BSG	0	.	GRCh37
BSG	0	.	GRCh37
BTBD16	0	.	GRCh37
BTBD16	0	.	GRCh37
BTBD8	0	.	GRCh37
BTG1	0	.	GRCh37
BTNL9	0	.	GRCh37
BZRAP1	0	.	GRCh37

VEP annotated somatic variants

C10orf105	0	.	GRCh37
C10orf71	0	.	GRCh37
C10orf90	0	.	GRCh37
C11orf49	0	.	GRCh37
C12orf49	0	.	GRCh37
C12orf55	0	.	GRCh37
C12orf60	0	.	GRCh37
C14orf164	0	.	GRCh37
C17orf107	0	.	GRCh37
C17orf53	0	.	GRCh37
C19orf26	0	.	GRCh37
C19orf33	0	.	GRCh37
C1GALT1C1	0	.	GRCh37
C1orf101	0	.	GRCh37
C1orf141	0	.	GRCh37
C1orf168	0	.	GRCh37
C1orf173	0	.	GRCh37
C1QTNF1	0	.	GRCh37
C2orf54	0	.	GRCh37
C2orf81	0	.	GRCh37
C3	0	.	GRCh37
C4orf29	0	.	GRCh37
C5	0	.	GRCh37
C5	0	.	GRCh37
C6orf201	0	.	GRCh37
C7	0	.	GRCh37
CA10	0	.	GRCh37
CA5A	0	.	GRCh37
CABIN1	0	.	GRCh37
CACNA1A	0	.	GRCh37
CACNA1B	0	.	GRCh37
CACNA1C	0	.	GRCh37
CACNA2D2	0	.	GRCh37
CACNA2D2	0	.	GRCh37
CACNB2	0	.	GRCh37
CAGE1	0	.	GRCh37
CALD1	0	.	GRCh37
CALR	0	.	GRCh37
CAMK1D	0	.	GRCh37
CAMK2D	0	.	GRCh37
CAMKMT	0	.	GRCh37
CAMSAP3	0	.	GRCh37
CAPN11	0	.	GRCh37
CAPN9	0	.	GRCh37
CAPS	0	.	GRCh37
CARD10	0	.	GRCh37
CARD8	0	.	GRCh37
CASP14	0	.	GRCh37
CASQ1	0	.	GRCh37
CASZ1	0	.	GRCh37
CATSPERG	0	.	GRCh37
CAV3	0	.	GRCh37
CCDC102A	0	.	GRCh37
CCDC104	0	.	GRCh37
CCDC105	0	.	GRCh37

VEP annotated somatic variants

CCDC11	0	.	GRCh37
CCDC120	0	.	GRCh37
CCDC132	0	.	GRCh37
CCDC137	0	.	GRCh37
CCDC147	0	.	GRCh37
CCDC158	0	.	GRCh37
CCDC169-SOHLH2	0	.	GRCh37
CCDC18	0	.	GRCh37
CCDC57	0	.	GRCh37
CCDC6	0	.	GRCh37
CCDC81	0	.	GRCh37
CCL19	0	.	GRCh37
CCR2	0	.	GRCh37
CD109	0	.	GRCh37
CD200R1L	0	.	GRCh37
CD244	0	.	GRCh37
CD300A	0	.	GRCh37
CD3EAP	0	.	GRCh37
CD46	0	.	GRCh37
CD7	0	.	GRCh37
CDC23	0	.	GRCh37
CDC42BPG	0	.	GRCh37
CDC45	0	.	GRCh37
CDCP1	0	.	GRCh37
CDH18	0	.	GRCh37
CDK19	0	.	GRCh37
CDK3	0	.	GRCh37
CDK7	0	.	GRCh37
CDKAL1	0	.	GRCh37
CDKL5	0	.	GRCh37
CDS2	0	.	GRCh37
CDSN	0	.	GRCh37
CDSN	0	.	GRCh37
CEACAM21	0	.	GRCh37
CEACAM3	0	.	GRCh37
CECR1	0	.	GRCh37
CECR2	0	.	GRCh37
CECR2	0	.	GRCh37
CECR5	0	.	GRCh37
CECR6	0	.	GRCh37
CENPI	0	.	GRCh37
CENPW	0	.	GRCh37
CEP250	0	.	GRCh37
CEP250	0	.	GRCh37
CEP63	0	.	GRCh37
CEP63	0	.	GRCh37
CEP70	0	.	GRCh37
CEP95	0	.	GRCh37
CERCAM	0	.	GRCh37
CES2	0	.	GRCh37
CFH	0	.	GRCh37
CFTR	0	.	GRCh37
CGB7	0	.	GRCh37
CHD1L	0	.	GRCh37
CHFR	0	.	GRCh37

VEP annotated somatic variants

CHFR	0	.	GRCh37
CHI3L2	0	.	GRCh37
CHRNA1	0	.	GRCh37
CHST14	0	.	GRCh37
CIITA	0	.	GRCh37
CINP	0	.	GRCh37
CIT	0	.	GRCh37
CITED1	0	.	GRCh37
CKMT2	0	.	GRCh37
CLCN6	0	.	GRCh37
CLCNKA	0	.	GRCh37
CLDN15	0	.	GRCh37
CLEC4E	0	.	GRCh37
CLIC2	0	.	GRCh37
CLIC4	0	.	GRCh37
CLIP1	0	.	GRCh37
CLIP4	0	.	GRCh37
CNKSR2	0	.	GRCh37
CNNM1	0	.	GRCh37
CNOT1	0	.	GRCh37
CNOT11	0	.	GRCh37
CNR1	0	.	GRCh37
CNTN4	0	.	GRCh37
CNTNAP2	0	.	GRCh37
CNTNAP2	0	.	GRCh37
CNTRL	0	.	GRCh37
COBL	0	.	GRCh37
COG4	0	.	GRCh37
COG5	0	.	GRCh37
COL17A1	0	.	GRCh37
COL23A1	0	.	GRCh37
COL24A1	0	.	GRCh37
COL24A1	0	.	GRCh37
COL26A1	0	.	GRCh37
COL4A6	0	.	GRCh37
COL5A3	0	.	GRCh37
COL6A1	0	.	GRCh37
COL6A3	0	.	GRCh37
COMT	0	.	GRCh37
COX20	0	.	GRCh37
CP	0	.	GRCh37
CPEB1	0	.	GRCh37
CPEB4	0	.	GRCh37
CR2	0	.	GRCh37
CRB2	0	.	GRCh37
CRHR2	0	.	GRCh37
CRIM1	0	.	GRCh37
CRIM1	0	.	GRCh37
CRISP3	0	.	GRCh37
CRNKL1	0	.	GRCh37
CRTC3	0	.	GRCh37
CRYBG3	0	.	GRCh37
CRYBG3	0	.	GRCh37
CSAG1	0	.	GRCh37
CSNK2A1	0	.	GRCh37

VEP annotated somatic variants

CSPG4	0	.	GRCh37
CTCFL	0	.	GRCh37
CTD-3088G3.8	0	.	GRCh37
CTNNA3	0	.	GRCh37
CTNNAL1	0	.	GRCh37
CUBN	0	.	GRCh37
CUL2	0	.	GRCh37
CUL7	0	.	GRCh37
CUX1	0	.	GRCh37
CUX1	0	.	GRCh37
CWC22	0	.	GRCh37
CWC22	0	.	GRCh37
CWF19L2	0	.	GRCh37
CXCR3	0	.	GRCh37
CYB561A3	0	.	GRCh37
CYB5R2	0	.	GRCh37
CYP2A13	0	.	GRCh37
CYP2A13	0	.	GRCh37
CYP3A4	0	.	GRCh37
CYP4F12	0	.	GRCh37
CYP51A1	0	.	GRCh37
DAGLA	0	.	GRCh37
DARS	0	.	GRCh37
DBR1	0	.	GRCh37
DCAF15	0	.	GRCh37
DCAF15	0	.	GRCh37
DCAF15	0	.	GRCh37
DCC	0	.	GRCh37
DCDC2	0	.	GRCh37
DCHS2	0	.	GRCh37
DCTD	0	.	GRCh37
DDX11	0	.	GRCh37
DDX11	0	.	GRCh37
DDX59	0	.	GRCh37
DENND1A	0	.	GRCh37
DENND5A	0	.	GRCh37
DEPDC1B	0	.	GRCh37
DGCR2	0	.	GRCh37
DGKB	0	.	GRCh37
DHRS3	0	.	GRCh37
DHX32	0	.	GRCh37
DHX37	0	.	GRCh37
DHX8	0	.	GRCh37
DHX8	0	.	GRCh37
DHX8	0	.	GRCh37
DIAPH1	0	.	GRCh37
DIP2B	0	.	GRCh37
DIS3L	0	.	GRCh37
DISC1	0	.	GRCh37
DISC1	0	.	GRCh37
DKK4	0	.	GRCh37
DLG2	0	.	GRCh37
DLG3	0	.	GRCh37
DLG5	0	.	GRCh37
DLK2	0	.	GRCh37

VEP annotated somatic variants

DMKN	0	.	GRCh37
DNA2	0	.	GRCh37
DNAH11	0	.	GRCh37
DNAH12	0	.	GRCh37
DNAH14	0	.	GRCh37
DNAH14	0	.	GRCh37
DNAH14	0	.	GRCh37
DNAH14	0	.	GRCh37
DNAH14	0	.	GRCh37
DNAH17	0	.	GRCh37
DNAH8	0	.	GRCh37
DNAH9	0	.	GRCh37
DNALI1	0	.	GRCh37
DNASE2B	0	.	GRCh37
DNMBP	0	.	GRCh37
DOCK2	0	.	GRCh37
DOCK3	0	.	GRCh37
DOT1L	0	.	GRCh37
DPEP1	0	.	GRCh37
DPF1	0	.	GRCh37
DPH5	0	.	GRCh37
DPY19L2	0	.	GRCh37
DRAXIN	0	.	GRCh37
DRP2	0	.	GRCh37
DRP2	0	.	GRCh37
DRP2	0	.	GRCh37
DSCAML1	0	.	GRCh37
DSG3	0	.	GRCh37
DSG4	0	.	GRCh37
DSG4	0	.	GRCh37
DSP	0	.	GRCh37
DST	0	.	GRCh37
DTD2	0	.	GRCh37
DTNBP1	0	.	GRCh37
DTWD2	0	.	GRCh37
DTX2	0	.	GRCh37
DUSP18	0	.	GRCh37
DUSP6	0	.	GRCh37
DYNC111	0	.	GRCh37
DYNC2H1	0	.	GRCh37
EBNA1BP2	0	.	GRCh37
EBP	0	.	GRCh37
ECE1	0	.	GRCh37
ECEL1	0	.	GRCh37
ECT2	0	.	GRCh37
ECT2L	0	.	GRCh37
EDEM3	0	.	GRCh37
EDN1	0	.	GRCh37
EDNRB	0	.	GRCh37
EEA1	0	.	GRCh37
EEF1A2	0	.	GRCh37
EEF1E1	0	.	GRCh37
EFCAB13	0	.	GRCh37
EFCAB3	0	.	GRCh37
EFCAB4B	0	.	GRCh37



VEP annotated somatic variants

EFHB	0	.	GRCh37
EFTUD1	0	.	GRCh37
EFTUD2	0	.	GRCh37
EIF2S3	0	.	GRCh37
ELF4	0	.	GRCh37
ELFN2	0	.	GRCh37
ELFN2	0	.	GRCh37
ELFN2	0	.	GRCh37
ELN	0	.	GRCh37
ELOVL2	0	.	GRCh37
EMC1	0	.	GRCh37
EMC2	0	.	GRCh37
EMC2	0	.	GRCh37
EML1	0	.	GRCh37
EML1	0	.	GRCh37
EML1	0	.	GRCh37
EN1	0	.	GRCh37
ENG	0	.	GRCh37
ENOX1	0	.	GRCh37
ENTPD1	0	.	GRCh37
ENTPD5	0	.	GRCh37
EP400	0	.	GRCh37
EPHB6	0	.	GRCh37
EPHX1	0	.	GRCh37
EPHX2	0	.	GRCh37
ERN1	0	.	GRCh37
ESPL1	0	.	GRCh37
ESYT3	0	.	GRCh37
ETFA	0	.	GRCh37
ETFB	0	.	GRCh37
ETHE1	0	.	GRCh37
EVI5	0	.	GRCh37
EVI5L	0	.	GRCh37
EVI5L	0	.	GRCh37
EVPL	0	.	GRCh37
EVPL	0	.	GRCh37
EXD2	0	.	GRCh37
EXO1	0	.	GRCh37
EXOC1	0	.	GRCh37
EZR	0	.	GRCh37
F8	0	.	GRCh37
F8	0	.	GRCh37
F9	0	.	GRCh37
FAAH2	0	.	GRCh37
FADS2	0	.	GRCh37
FADS3	0	.	GRCh37
FAH	0	.	GRCh37
FAM118A	0	.	GRCh37
FAM122C	0	.	GRCh37
FAM122C	0	.	GRCh37
FAM127C	0	.	GRCh37
FAM127C	0	.	GRCh37
FAM135B	0	.	GRCh37
FAM162B	0	.	GRCh37
FAM168A	0	.	GRCh37

VEP annotated somatic variants

FAM181B	0	.	GRCh37
FAM184B	0	.	GRCh37
FAM186A	0	.	GRCh37
FAM187B	0	.	GRCh37
FAM189B	0	.	GRCh37
FAM21C	0	.	GRCh37
FAM63A	0	.	GRCh37
FAM65B	0	.	GRCh37
FAM81B	0	.	GRCh37
FANCA	0	.	GRCh37
FANCE	0	.	GRCh37
FANCE	0	.	GRCh37
FANCE	0	.	GRCh37
FAR2	0	.	GRCh37
FARP2	0	.	GRCh37
FARP2	0	.	GRCh37
FASN	0	.	GRCh37
FASN	0	.	GRCh37
FASN	0	.	GRCh37
FASN	0	.	GRCh37
FBLN2	0	.	GRCh37
FBN3	0	.	GRCh37
FBRSL1	0	.	GRCh37
FBXL21	0	.	GRCh37
FBXO10	0	.	GRCh37
FBXO10	0	.	GRCh37
FBXO17	0	.	GRCh37
FBXW12	0	.	GRCh37
FBXW4	0	.	GRCh37
FCAMR	0	.	GRCh37
FCHO1	0	.	GRCh37
FGFR4	0	.	GRCh37
FGG	0	.	GRCh37
FHOD3	0	.	GRCh37
FHOD3	0	.	GRCh37
FHOD3	0	.	GRCh37
FIGN	0	.	GRCh37
FIP1L1	0	.	GRCh37
FKBP6	0	.	GRCh37
FKBP7	0	.	GRCh37
FLNA	0	.	GRCh37
FLNB	0	.	GRCh37
FLT4	0	.	GRCh37
FMN2	0	.	GRCh37
FMN2	0	.	GRCh37
FMO3	0	.	GRCh37
FNBP4	0	.	GRCh37
FNBP4	0	.	GRCh37
FNDC1	0	.	GRCh37
FNDC1	0	.	GRCh37
FOXF2	0	.	GRCh37
FOXP4	0	.	GRCh37
FPGS	0	.	GRCh37
FRAS1	0	.	GRCh37
FRAS1	0	.	GRCh37

VEP annotated somatic variants

FRAS1	0	.	GRCh37
FRAS1	0	.	GRCh37
FRAS1	0	.	GRCh37
FREM3	0	.	GRCh37
FRMD4A	0	.	GRCh37
FSIP1	0	.	GRCh37
FSTL5	0	.	GRCh37
FUBP3	0	.	GRCh37
FUT1	0	.	GRCh37
FUT6	0	.	GRCh37
FXYD2	0	.	GRCh37
FYCO1	0	.	GRCh37
GADL1	0	.	GRCh37
GAK	0	.	GRCh37
GAK	0	.	GRCh37
GALC	0	.	GRCh37
GALC	0	.	GRCh37
GALK1	0	.	GRCh37
GALNT10	0	.	GRCh37
GALNT14	0	.	GRCh37
GALNT8	0	.	GRCh37
GALNT8	0	.	GRCh37
GAREM	0	.	GRCh37
GAREM	0	.	GRCh37
GAREM	0	.	GRCh37
GARNL3	0	.	GRCh37
GBP5	0	.	GRCh37
GBP5	0	.	GRCh37
GBP5	0	.	GRCh37
GCGR	0	.	GRCh37
GCNT2	0	.	GRCh37
GDA	0	.	GRCh37
GDAP1L1	0	.	GRCh37
GDF2	0	.	GRCh37
GEMIN2	0	.	GRCh37
GFM1	0	.	GRCh37
GGCX	0	.	GRCh37
GGN	0	.	GRCh37
GGN	0	.	GRCh37
GHDC	0	.	GRCh37
GINM1	0	.	GRCh37
GINS1	0	.	GRCh37
GLG1	0	.	GRCh37
GLG1	0	.	GRCh37
GLIS2	0	.	GRCh37
GLO1	0	.	GRCh37
GLRA4	0	.	GRCh37
GLRA4	0	.	GRCh37
GLT8D2	0	.	GRCh37
GLYATL2	0	.	GRCh37
GMCL1	0	.	GRCh37
GNAZ	0	.	GRCh37
GNB1L	0	.	GRCh37
GNRHR	0	.	GRCh37
GOLGA3	0	.	GRCh37

VEP annotated somatic variants

GP1BA	0	.	GRCh37
GPC6	0	.	GRCh37
GPLD1	0	.	GRCh37
GPM6B	0	.	GRCh37
GPN1	0	.	GRCh37
GPR101	0	.	GRCh37
GPR123	0	.	GRCh37
GPR123	0	.	GRCh37
GPR123	0	.	GRCh37
GPR123	0	.	GRCh37
GPR176	0	.	GRCh37
GRAMD1B	0	.	GRCh37
GRAMD1C	0	.	GRCh37
GRAMD4	0	.	GRCh37
GRAMD4	0	.	GRCh37
GRAMD4	0	.	GRCh37
GREB1	0	.	GRCh37
GRIA1	0	.	GRCh37
GRIA2	0	.	GRCh37
GRIA3	0	.	GRCh37
GRM7	0	.	GRCh37
GSE1	0	.	GRCh37
GSN	0	.	GRCh37
GSPT2	0	.	GRCh37
GSTP1	0	.	GRCh37
GSTZ1	0	.	GRCh37
GTPBP4	0	.	GRCh37
GTPBP4	0	.	GRCh37
GUCY2F	0	.	GRCh37
GXYLT2	0	.	GRCh37
HAL	0	.	GRCh37
HAMP	0	.	GRCh37
HDAC7	0	.	GRCh37
HDAC7	0	.	GRCh37
HDAC9	0	.	GRCh37
HDDC2	0	.	GRCh37
HDHD1	0	.	GRCh37
HEATR1	0	.	GRCh37
HEATR1	0	.	GRCh37
HEATR1	0	.	GRCh37
HEATR2	0	.	GRCh37
HECTD1	0	.	GRCh37
HECTD1	0	.	GRCh37
HELLS	0	.	GRCh37
HELLS	0	.	GRCh37
HEMK1	0	.	GRCh37
HERC1	0	.	GRCh37
HFE	0	.	GRCh37
HGF	0	.	GRCh37
HHATL	0	.	GRCh37
HHIPL1	0	.	GRCh37
HIGD1B	0	.	GRCh37
HINT1	0	.	GRCh37
HIST1H2BF	0	.	GRCh37
HIST1H3D	0	.	GRCh37

VEP annotated somatic variants

HIST1H4B	0	.	GRCh37
HKDC1	0	.	GRCh37
HLA-DPB1	0	.	GRCh37
HLCS	0	.	GRCh37
HLTF	0	.	GRCh37
HMBS	0	.	GRCh37
HMGXB4	0	.	GRCh37
HMGXB4	0	.	GRCh37
HNF1A	0	.	GRCh37
HNRNPUL1	0	.	GRCh37
HOOK2	0	.	GRCh37
HPN	0	.	GRCh37
HPS6	0	.	GRCh37
HSPB6	0	.	GRCh37
HTR5A	0	.	GRCh37
HUWE1	0	.	GRCh37
HUWE1	0	.	GRCh37
ICOSLG	0	.	GRCh37
ICOSLG	0	.	GRCh37
ICOSLG	0	.	GRCh37
IDH2	0	.	GRCh37
IDH3A	0	.	GRCh37
IFI16	0	.	GRCh37
IFNAR2	0	.	GRCh37
IGF1R	0	.	GRCh37
IGF2R	0	.	GRCh37
IGF2R	0	.	GRCh37
IGF2R	0	.	GRCh37
IGLON5	0	.	GRCh37
IGSF1	0	.	GRCh37
IGSF1	0	.	GRCh37
IGSF1	0	.	GRCh37
IGSF11	0	.	GRCh37
IGSF11	0	.	GRCh37
IGSF11	0	.	GRCh37
IGSF22	0	.	GRCh37
IGSF9B	0	.	GRCh37
IKBKAP	0	.	GRCh37
IL17RC	0	.	GRCh37
IL20RA	0	.	GRCh37
IL22RA1	0	.	GRCh37
IL2RA	0	.	GRCh37
INO80E	0	.	GRCh37
INS	0	.	GRCh37
INS-IGF2	0	.	GRCh37
INSR	0	.	GRCh37
INSR	0	.	GRCh37
INTS1	0	.	GRCh37
INTS1	0	.	GRCh37
INTS6	0	.	GRCh37
IQGAP2	0	.	GRCh37
IQGAP3	0	.	GRCh37
IQSEC3	0	.	GRCh37
IRF5	0	.	GRCh37
IRGC	0	.	GRCh37

VEP annotated somatic variants

ITGA10	0	.	GRCh37
ITGA10	0	.	GRCh37
ITGA4	0	.	GRCh37
ITGA9	0	.	GRCh37
ITIH4	0	.	GRCh37
ITIH4	0	.	GRCh37
ITIH4	0	.	GRCh37
ITM2A	0	.	GRCh37
ITPKB	0	.	GRCh37
ITPR2	0	.	GRCh37
ITPR2	0	.	GRCh37
ITPR3	0	.	GRCh37
ITPRIP	0	.	GRCh37
ITSN1	0	.	GRCh37
ITSN1	0	.	GRCh37
JADE1	0	.	GRCh37
JADE3	0	.	GRCh37
JAKMIP3	0	.	GRCh37
JARID2	0	.	GRCh37
JARID2	0	.	GRCh37
JARID2	0	.	GRCh37
JRKL	0	.	GRCh37
KANK1	0	.	GRCh37
KANK4	0	.	GRCh37
KANK4	0	.	GRCh37
KANK4	0	.	GRCh37
KANK4	0	.	GRCh37
KATNA1	0	.	GRCh37
KCNA7	0	.	GRCh37
KCNAB1	0	.	GRCh37
KCNU1	0	.	GRCh37
KCP	0	.	GRCh37
KCTD10	0	.	GRCh37
KCTD4	0	.	GRCh37
KDM3B	0	.	GRCh37
KDM4A	0	.	GRCh37
KDM4B	0	.	GRCh37
KDM5D	0	.	GRCh37
KDM6A	0	.	GRCh37
KDM7A	0	.	GRCh37
KDM7A	0	.	GRCh37
KDM7A	0	.	GRCh37
KIAA0930	0	.	GRCh37
KIAA1109	0	.	GRCh37
KIAA1244	0	.	GRCh37
KIAA1429	0	.	GRCh37
KIAA1683	0	.	GRCh37
KIAA1919	0	.	GRCh37
KIF14	0	.	GRCh37
KIF17	0	.	GRCh37
KIF19	0	.	GRCh37
KIF1A	0	.	GRCh37
KIF1C	0	.	GRCh37
KIF20B	0	.	GRCh37
KIFAP3	0	.	GRCh37
KIN	0	.	GRCh37

VEP annotated somatic variants

KLF10	0	.	GRCh37
KLHL2	0	.	GRCh37
KLHL8	0	.	GRCh37
KLRG1	0	.	GRCh37
KMT2C	0	.	GRCh37
KNDC1	0	.	GRCh37
KNTC1	0	.	GRCh37
KPNA7	0	.	GRCh37
KPNB1	0	.	GRCh37
KREMEN1	0	.	GRCh37
KRT10	0	.	GRCh37
KRT32	0	.	GRCh37
KRT36	0	.	GRCh37
KRTAP10-9	0	.	GRCh37
KRTAP12-3	0	.	GRCh37
KRTAP12-4	0	.	GRCh37
L3MBTL2	0	.	GRCh37
LAMA2	0	.	GRCh37
LAMA2	0	.	GRCh37
LAMA4	0	.	GRCh37
LAMA4	0	.	GRCh37
LAMC1	0	.	GRCh37
LAMC1	0	.	GRCh37
LAMC1	0	.	GRCh37
LAMC2	0	.	GRCh37
LATS1	0	.	GRCh37
LCE3C	0	.	GRCh37
LCN8	0	.	GRCh37
LDLRAD2	0	.	GRCh37
LEMD3	0	.	GRCh37
LFNG	0	.	GRCh37
LILRA4	0	.	GRCh37
LIMK1	0	.	GRCh37
LINGO3	0	.	GRCh37
LMBR1L	0	.	GRCh37
LMO7	0	.	GRCh37
LNPEP	0	.	GRCh37
LONRF1	0	.	GRCh37
LONRF3	0	.	GRCh37
LONRF3	0	.	GRCh37
LOXL1	0	.	GRCh37
LPP	0	.	GRCh37
LRMP	0	.	GRCh37
LRP1B	0	.	GRCh37
LRP5	0	.	GRCh37
LRP5L	0	.	GRCh37
LRP5L	0	.	GRCh37
LRPAP1	0	.	GRCh37
LRR1	0	.	GRCh37
LRRC18	0	.	GRCh37
LRRCC1	0	.	GRCh37
LRRIQ1	0	.	GRCh37
LSG1	0	.	GRCh37
LSM14A	0	.	GRCh37
LSM6	0	.	GRCh37

VEP annotated somatic variants

LSS	0	.	GRCh37
LTN1	0	.	GRCh37
LUZP2	0	.	GRCh37
LYPD4	0	.	GRCh37
LYSMD1	0	.	GRCh37
LZTS2	0	.	GRCh37
LZTS2	0	.	GRCh37
MAD1L1	0	.	GRCh37
MAD2L1	0	.	GRCh37
MAGEA1	0	.	GRCh37
MAGEA12	0	.	GRCh37
MAGEB4	0	.	GRCh37
MAGEC1	0	.	GRCh37
MAGEC2	0	.	GRCh37
MAGED2	0	.	GRCh37
MAMDC4	0	.	GRCh37
MAMLD1	0	.	GRCh37
MAN1A1	0	.	GRCh37
MAN2A1	0	.	GRCh37
MAN2B2	0	.	GRCh37
MAP1S	0	.	GRCh37
MAP3K15	0	.	GRCh37
MAP3K3	0	.	GRCh37
MAP4K1	0	.	GRCh37
MAP4K4	0	.	GRCh37
MAPKAPK3	0	.	GRCh37
MAST1	0	.	GRCh37
MAST1	0	.	GRCh37
MAST4	0	.	GRCh37
MATN4	0	.	GRCh37
MCCC1	0	.	GRCh37
MCM3AP	0	.	GRCh37
MDGA1	0	.	GRCh37
MDN1	0	.	GRCh37
MDN1	0	.	GRCh37
MECP2	0	.	GRCh37
MED14	0	.	GRCh37
MED22	0	.	GRCh37
MED25	0	.	GRCh37
MED29	0	.	GRCh37
MEF2B	0	.	GRCh37
MEGF6	0	.	GRCh37
MEP1B	0	.	GRCh37
MERTK	0	.	GRCh37
METTL3	0	.	GRCh37
METTL8	0	.	GRCh37
MFSD12	0	.	GRCh37
MGAT5B	0	.	GRCh37
MGAT5B	0	.	GRCh37
MGAT5B	0	.	GRCh37
MGMT	0	.	GRCh37
MICAL3	0	.	GRCh37
MICAL3	0	.	GRCh37
MICAL3	0	.	GRCh37
MID1	0	.	GRCh37



VEP annotated somatic variants

MINK1	0	.	GRCh37
MINK1	0	.	GRCh37
MLEC	0	.	GRCh37
MLK4	0	.	GRCh37
MLLT1	0	.	GRCh37
MMP21	0	.	GRCh37
MNX1	0	.	GRCh37
MOB3A	0	.	GRCh37
MORC4	0	.	GRCh37
MORC4	0	.	GRCh37
MORF4L1	0	.	GRCh37
MPZL3	0	.	GRCh37
MRE11A	0	.	GRCh37
MROH7	0	.	GRCh37
MROH7	0	.	GRCh37
MROH7	0	.	GRCh37
MRPL10	0	.	GRCh37
MRPL41	0	.	GRCh37
MRPL43	0	.	GRCh37
MRPS10	0	.	GRCh37
MRVI1	0	.	GRCh37
MSH2	0	.	GRCh37
MSMO1	0	.	GRCh37
MTOR	0	.	GRCh37
MTR	0	.	GRCh37
MTR	0	.	GRCh37
MTR	0	.	GRCh37
MTR	0	.	GRCh37
MTTP	0	.	GRCh37
MUC16	0	.	GRCh37
MUC16	0	.	GRCh37
MUC19	0	.	GRCh37
MUC19	0	.	GRCh37
MUC2	0	.	GRCh37
MVD	0	.	GRCh37
MXRA5	0	.	GRCh37
MYADML2	0	.	GRCh37
MYBPC3	0	.	GRCh37
MYH11	0	.	GRCh37
MYH15	0	.	GRCh37
MYH7	0	.	GRCh37
MYH7	0	.	GRCh37
MYH7	0	.	GRCh37
MYH9	0	.	GRCh37
MYLK	0	.	GRCh37
MYO15A	0	.	GRCh37
MYO18B	0	.	GRCh37
MYO19	0	.	GRCh37
MYO1F	0	.	GRCh37
MYO5A	0	.	GRCh37
MYO9B	0	.	GRCh37
MYOG	0	.	GRCh37
MYPN	0	.	GRCh37
MYRF	0	.	GRCh37
MYSM1	0	.	GRCh37

VEP annotated somatic variants

NAA35	0	.	GRCh37
NACC2	0	.	GRCh37
NAGPA	0	.	GRCh37
NAPSA	0	.	GRCh37
NAT9	0	.	GRCh37
NBAS	0	.	GRCh37
NBR1	0	.	GRCh37
NBR1	0	.	GRCh37
NBR1	0	.	GRCh37
NBR1	0	.	GRCh37
NCAN	0	.	GRCh37
NCAPD2	0	.	GRCh37
NCAPD3	0	.	GRCh37
NCAPH	0	.	GRCh37
NCOA6	0	.	GRCh37
NCOR1	0	.	GRCh37
NDUFS2	0	.	GRCh37
NEB	0	.	GRCh37
NEB	0	.	GRCh37
NEB	0	.	GRCh37
NELFA	0	.	GRCh37
NENF	0	.	GRCh37
NENF	0	.	GRCh37
NEXN	0	.	GRCh37
NFKB1	0	.	GRCh37
NFKB2	0	.	GRCh37
NFKBIZ	0	.	GRCh37
NHLRC1	0	.	GRCh37
NHSL1	0	.	GRCh37
NID1	0	.	GRCh37
NIN	0	.	GRCh37
NIPAL3	0	.	GRCh37
NIPAL4	0	.	GRCh37
NIPBL	0	.	GRCh37
NIPSNAP1	0	.	GRCh37
NISCH	0	.	GRCh37
NKX2-8	0	.	GRCh37
NLGN3	0	.	GRCh37
NLRC4	0	.	GRCh37
NLRP5	0	.	GRCh37
NLRP5	0	.	GRCh37
NLRP5	0	.	GRCh37
NLRP9	0	.	GRCh37
NOC4L	0	.	GRCh37
NOL6	0	.	GRCh37
NOP14	0	.	GRCh37
NOP56	0	.	GRCh37
NOS1AP	0	.	GRCh37
NOS3	0	.	GRCh37
NOS3	0	.	GRCh37
NOTCH1	0	.	GRCh37
NOTCH1	0	.	GRCh37
NPC1L1	0	.	GRCh37
NPFFR1	0	.	GRCh37
NPSR1	0	.	GRCh37

VEP annotated somatic variants

NPTX2	0	.	GRCh37
NR1D2	0	.	GRCh37
NR1I3	0	.	GRCh37
NRDE2	0	.	GRCh37
NSD1	0	.	GRCh37
NSUN2	0	.	GRCh37
NT5DC2	0	.	GRCh37
NTF4	0	.	GRCh37
NUDCD3	0	.	GRCh37
NUFIP1	0	.	GRCh37
NUGGC	0	.	GRCh37
NUP107	0	.	GRCh37
NUP214	0	.	GRCh37
NUP43	0	.	GRCh37
NUP50	0	.	GRCh37
NUP54	0	.	GRCh37
NUP54	0	.	GRCh37
NUP88	0	.	GRCh37
NUP88	0	.	GRCh37
NXF3	0	.	GRCh37
NXF5	0	.	GRCh37
NXF5	0	.	GRCh37
NXF5	0	.	GRCh37
NXN	0	.	GRCh37
OARD1	0	.	GRCh37
OBSL1	0	.	GRCh37
OGFOD3	0	.	GRCh37
OPA3	0	.	GRCh37
OR2AE1	0	.	GRCh37
OR3A1	0	.	GRCh37
OR4A16	0	.	GRCh37
OR4A5	0	.	GRCh37
OR4C16	0	.	GRCh37
OR51B4	0	.	GRCh37
OR52N1	0	.	GRCh37
OR5AU1	0	.	GRCh37
OR5H15	0	.	GRCh37
OR5I1	0	.	GRCh37
OR5T1	0	.	GRCh37
OSBPL2	0	.	GRCh37
OSGIN1	0	.	GRCh37
OSGIN1	0	.	GRCh37
OSMR	0	.	GRCh37
OTUD7A	0	.	GRCh37
OXA1L	0	.	GRCh37
P2RY4	0	.	GRCh37
P4HB	0	.	GRCh37
PABPC4	0	.	GRCh37
PACS1	0	.	GRCh37
PAGE5	0	.	GRCh37
PALM	0	.	GRCh37
PANK1	0	.	GRCh37
PANK1	0	.	GRCh37
PANK4	0	.	GRCh37
PAPOLG	0	.	GRCh37

VEP annotated somatic variants

PARS2	0	.	GRCh37
PARVA	0	.	GRCh37
PARVB	0	.	GRCh37
PAX8	0	.	GRCh37
PBOV1	0	.	GRCh37
PCDH15	0	.	GRCh37
PCDH9	0	.	GRCh37
PCLO	0	.	GRCh37
PCMT1	0	.	GRCh37
PCNT	0	.	GRCh37
PDE12	0	.	GRCh37
PDE1A	0	.	GRCh37
PDE2A	0	.	GRCh37
PDE6C	0	.	GRCh37
PDGFRA	0	.	GRCh37
PDGFRB	0	.	GRCh37
PDGFRB	0	.	GRCh37
PDSS1	0	.	GRCh37
PDXDC1	0	.	GRCh37
PDXDC1	0	.	GRCh37
PDZD7	0	.	GRCh37
PEAK1	0	.	GRCh37
PEAR1	0	.	GRCh37
PEAR1	0	.	GRCh37
PEAR1	0	.	GRCh37
PEAR1	0	.	GRCh37
PEPD	0	.	GRCh37
PEPD	0	.	GRCh37
PFKP	0	.	GRCh37
PFKP	0	.	GRCh37
PGAP1	0	.	GRCh37
PGK1	0	.	GRCh37
PGLYRP2	0	.	GRCh37
PGLYRP3	0	.	GRCh37
PHF2	0	.	GRCh37
PHIP	0	.	GRCh37
PHKA1	0	.	GRCh37
PHLDB1	0	.	GRCh37
PHRF1	0	.	GRCh37
PIFO	0	.	GRCh37
PIGK	0	.	GRCh37
PIGN	0	.	GRCh37
PIGW	0	.	GRCh37
PIK3R5	0	.	GRCh37
PIKFYVE	0	.	GRCh37
PIM3	0	.	GRCh37
PIWIL3	0	.	GRCh37
PJA1	0	.	GRCh37
PKD1L2	0	.	GRCh37
PKHD1	0	.	GRCh37
PKP2	0	.	GRCh37
PLA2G7	0	.	GRCh37
PLAT	0	.	GRCh37
PLB1	0	.	GRCh37
PLCE1	0	.	GRCh37
PLCE1	0	.	GRCh37

VEP annotated somatic variants

PLCE1	0	.	GRCh37
PLCE1	0	.	GRCh37
PLCG2	0	.	GRCh37
PLCH2	0	.	GRCh37
PLCH2	0	.	GRCh37
PLEC	0	.	GRCh37
PLEC	0	.	GRCh37
PLEC	0	.	GRCh37
PLEC	0	.	GRCh37
PLEC	0	.	GRCh37
PLEKHG5	0	.	GRCh37
PLEKHH1	0	.	GRCh37
PLEKHH1	0	.	GRCh37
PLEKHH1	0	.	GRCh37
PLEKHN1	0	.	GRCh37
PLK5	0	.	GRCh37
PLXDC1	0	.	GRCh37
PLXNB2	0	.	GRCh37
PNISR	0	.	GRCh37
PNPLA1	0	.	GRCh37
PNPLA3	0	.	GRCh37
PNPLA6	0	.	GRCh37
POC1B-GALNT4	0	.	GRCh37
POLR2G	0	.	GRCh37
POLR3F	0	.	GRCh37
POLR3F	0	.	GRCh37
POSTN	0	.	GRCh37
POU5F1B	0	.	GRCh37
PPARG	0	.	GRCh37
PPARG	0	.	GRCh37
PPIL2	0	.	GRCh37
PPM1E	0	.	GRCh37
PPOX	0	.	GRCh37
PPP1R27	0	.	GRCh37
PPP2R2D	0	.	GRCh37
PPP2R3A	0	.	GRCh37
PQBP1	0	.	GRCh37
PRDM5	0	.	GRCh37
PRDM8	0	.	GRCh37
PRDX4	0	.	GRCh37
PRDX4	0	.	GRCh37
PRDX4	0	.	GRCh37
PREP	0	.	GRCh37
PREX2	0	.	GRCh37
PRG2	0	.	GRCh37
PRIMPOL	0	.	GRCh37
PRKCD	0	.	GRCh37
PRKCD	0	.	GRCh37
PRKCZ	0	.	GRCh37
PRMT5	0	.	GRCh37
PRR22	0	.	GRCh37
PRR5	0	.	GRCh37
PRR5-ARHGAP8	0	.	GRCh37
PRSS36	0	.	GRCh37

VEP annotated somatic variants

PRUNE2	0	.	GRCh37
PSG2	0	.	GRCh37
PSG7	0	.	GRCh37
PSG9	0	.	GRCh37
PSMD12	0	.	GRCh37
PSMG1	0	.	GRCh37
PSMG2	0	.	GRCh37
PTGR1	0	.	GRCh37
PTPRE	0	.	GRCh37
PTPRF	0	.	GRCh37
PTPRG	0	.	GRCh37
PTPRK	0	.	GRCh37
PTPRN2	0	.	GRCh37
PTX4	0	.	GRCh37
PUM1	0	.	GRCh37
PUM1	0	.	GRCh37
PUM1	0	.	GRCh37
PUM1	0	.	GRCh37
PYGO1	0	.	GRCh37
PYROXD1	0	.	GRCh37
RAB11FIP4	0	.	GRCh37
RAB17	0	.	GRCh37
RAB38	0	.	GRCh37
RAB41	0	.	GRCh37
RABEP1	0	.	GRCh37
RABGGTA	0	.	GRCh37
RAC3	0	.	GRCh37
RAD51B	0	.	GRCh37
RADIL	0	.	GRCh37
RAF1	0	.	GRCh37
RAI14	0	.	GRCh37
RAP1GAP	0	.	GRCh37
RAPGEF3	0	.	GRCh37
RAPSN	0	.	GRCh37
RASSF1	0	.	GRCh37
RBM10	0	.	GRCh37
RBM26	0	.	GRCh37
RBM27	0	.	GRCh37
RBPMS	0	.	GRCh37
RECK	0	.	GRCh37
RELB	0	.	GRCh37
REPS1	0	.	GRCh37
RETNLB	0	.	GRCh37
RFPL1	0	.	GRCh37
RFT1	0	.	GRCh37
RFT1	0	.	GRCh37
RFTN1	0	.	GRCh37
RGL3	0	.	GRCh37
RGS7	0	.	GRCh37
RIBC2	0	.	GRCh37
RIPK4	0	.	GRCh37
RMND5A	0	.	GRCh37
RMND5A	0	.	GRCh37
RNASEH2A	0	.	GRCh37
RNASEL	0	.	GRCh37

VEP annotated somatic variants

RND2	0	.	GRCh37
RNF175	0	.	GRCh37
RNF19B	0	.	GRCh37
RNF222	0	.	GRCh37
ROBO1	0	.	GRCh37
ROBO1	0	.	GRCh37
ROCK2	0	.	GRCh37
ROR1	0	.	GRCh37
ROS1	0	.	GRCh37
RP1-130H16.18	0	.	GRCh37
RP11-173B14.4	0	.	GRCh37
RP11-248J23.6	0	.	GRCh37
RP11-551L14.1	0	.	GRCh37
RP3-467K16.2	0	.	GRCh37
RPAP3	0	.	GRCh37
RPH3AL	0	.	GRCh37
RPL18A	0	.	GRCh37
RPL23A	0	.	GRCh37
RPL23A	0	.	GRCh37
RPL3	0	.	GRCh37
RPS4X	0	.	GRCh37
RPS6KA2	0	.	GRCh37
RPTOR	0	.	GRCh37
RPTOR	0	.	GRCh37
RRP1B	0	.	GRCh37
RRP1B	0	.	GRCh37
RSAD1	0	.	GRCh37
RSU1	0	.	GRCh37
RTN3	0	.	GRCh37
RUFY1	0	.	GRCh37
RUFY1	0	.	GRCh37
RUFY2	0	.	GRCh37
RXRA	0	.	GRCh37
RYR1	0	.	GRCh37
RYR1	0	.	GRCh37
RYR1	0	.	GRCh37
RYR1	0	.	GRCh37
RYR1	0	.	GRCh37
RYR2	0	.	GRCh37
RYR2	0	.	GRCh37
RYR3	0	.	GRCh37
SAP18	0	.	GRCh37
SARDH	0	.	GRCh37
SBDS	0	.	GRCh37
SBF1	0	.	GRCh37
SBF2	0	.	GRCh37
SCAF1	0	.	GRCh37
SCAMP3	0	.	GRCh37
SCARF2	0	.	GRCh37
SCEL	0	.	GRCh37
SCIN	0	.	GRCh37
SCLT1	0	.	GRCh37
SCLT1	0	.	GRCh37
SCML4	0	.	GRCh37
SCN3A	0	.	GRCh37
SCN9A	0	.	GRCh37

VEP annotated somatic variants

SCN9A	0	.	GRCh37
SDE2	0	.	GRCh37
SDK1	0	.	GRCh37
SEC13	0	.	GRCh37
SEC14L6	0	.	GRCh37
SEC16B	0	.	GRCh37
SEC23B	0	.	GRCh37
SEC24D	0	.	GRCh37
SEC31B	0	.	GRCh37
SEC31B	0	.	GRCh37
SEC31B	0	.	GRCh37
SEC31B	0	.	GRCh37
SECISBP2	0	.	GRCh37
SECTM1	0	.	GRCh37
SELE	0	.	GRCh37
SELP	0	.	GRCh37
SEMA3A	0	.	GRCh37
SEMA3A	0	.	GRCh37
SEMA3F	0	.	GRCh37
SEPT3	0	.	GRCh37
SERPINA3	0	.	GRCh37
SERTAD1	0	.	GRCh37
SETD1B	0	.	GRCh37
SETD1B	0	.	GRCh37
SETD5	0	.	GRCh37
SEZ6L	0	.	GRCh37
SF3B3	0	.	GRCh37
SF3B5	0	.	GRCh37
SGPL1	0	.	GRCh37
SGSM2	0	.	GRCh37
SGSM2	0	.	GRCh37
SGSM3	0	.	GRCh37
SH3GLB1	0	.	GRCh37
SH3PXD2A	0	.	GRCh37
SHANK1	0	.	GRCh37
SHANK1	0	.	GRCh37
SHH	0	.	GRCh37
SHROOM2	0	.	GRCh37
SIGLEC12	0	.	GRCh37
SIK1	0	.	GRCh37
SIM2	0	.	GRCh37
SIPA1L2	0	.	GRCh37
SLAMF7	0	.	GRCh37
SLC10A4	0	.	GRCh37
SLC10A6	0	.	GRCh37
SLC12A7	0	.	GRCh37
SLC13A1	0	.	GRCh37
SLC16A2	0	.	GRCh37
SLC1A6	0	.	GRCh37
SLC1A6	0	.	GRCh37
SLC22A5	0	.	GRCh37
SLC23A1	0	.	GRCh37
SLC24A4	0	.	GRCh37
SLC25A13	0	.	GRCh37
SLC25A39	0	.	GRCh37



VEP annotated somatic variants

SLC25A39	0	.	GRCh37
SLC26A11	0	.	GRCh37
SLC28A1	0	.	GRCh37
SLC28A2	0	.	GRCh37
SLC2A8	0	.	GRCh37
SLC35B4	0	.	GRCh37
SLC35F1	0	.	GRCh37
SLC35F3	0	.	GRCh37
SLC37A2	0	.	GRCh37
SLC38A3	0	.	GRCh37
SLC38A7	0	.	GRCh37
SLC45A4	0	.	GRCh37
SLC4A2	0	.	GRCh37
SLC5A5	0	.	GRCh37
SLC6A14	0	.	GRCh37
SLC6A16	0	.	GRCh37
SLC6A4	0	.	GRCh37
SLC6A9	0	.	GRCh37
SLC7A8	0	.	GRCh37
SLC7A8	0	.	GRCh37
SLC9A7	0	.	GRCh37
SLCO2A1	0	.	GRCh37
SMARCA1	0	.	GRCh37
SMARCA5	0	.	GRCh37
SMC1B	0	.	GRCh37
SMOC1	0	.	GRCh37
SMTN	0	.	GRCh37
SMYD3	0	.	GRCh37
SORBS1	0	.	GRCh37
SORCS2	0	.	GRCh37
SPAG17	0	.	GRCh37
SPAG17	0	.	GRCh37
SPANXN2	0	.	GRCh37
SPATC1	0	.	GRCh37
SPEG	0	.	GRCh37
SPEG	0	.	GRCh37
SPINT2	0	.	GRCh37
SPOCK2	0	.	GRCh37
SPTBN5	0	.	GRCh37
SPTBN5	0	.	GRCh37
SRCAP	0	.	GRCh37
SSPO	0	.	GRCh37
SSPO	0	.	GRCh37
SSPO	0	.	GRCh37
SSUH2	0	.	GRCh37
ST3GAL2	0	.	GRCh37
ST6GALNAC2	0	.	GRCh37
ST6GALNAC2	0	.	GRCh37
ST6GALNAC4	0	.	GRCh37
STAB2	0	.	GRCh37
STAMPB	0	.	GRCh37
STAP1	0	.	GRCh37
STARD9	0	.	GRCh37
STAT4	0	.	GRCh37
STAT5B	0	.	GRCh37

VEP annotated somatic variants

STAU2	0	.	GRCh37
STOML1	0	.	GRCh37
STRA13	0	.	GRCh37
STRA8	0	.	GRCh37
STRBP	0	.	GRCh37
STRIP1	0	.	GRCh37
STRIP2	0	.	GRCh37
STXBP5	0	.	GRCh37
STYK1	0	.	GRCh37
STYXL1	0	.	GRCh37
SUCNR1	0	.	GRCh37
SUMO3	0	.	GRCh37
SUMO4	0	.	GRCh37
SUPT5H	0	.	GRCh37
SUPT5H	0	.	GRCh37
SUSD3	0	.	GRCh37
SWAP70	0	.	GRCh37
SYMPK	0	.	GRCh37
SYN2	0	.	GRCh37
SYNE2	0	.	GRCh37
SYNE2	0	.	GRCh37
SYNJ2	0	.	GRCh37
SYNM	0	.	GRCh37
SYNPO2	0	.	GRCh37
TAB2	0	.	GRCh37
TAB2	0	.	GRCh37
TACC3	0	.	GRCh37
TAF7L	0	.	GRCh37
TAGAP	0	.	GRCh37
TAGAP	0	.	GRCh37
TARSL2	0	.	GRCh37
TARSL2	0	.	GRCh37
TATDN2	0	.	GRCh37
TATDN2	0	.	GRCh37
TBC1D22A	0	.	GRCh37
TBC1D4	0	.	GRCh37
TBC1D5	0	.	GRCh37
TBCK	0	.	GRCh37
TBX10	0	.	GRCh37
TCEAL2	0	.	GRCh37
TCEB3	0	.	GRCh37
TCERG1	0	.	GRCh37
TCN2	0	.	GRCh37
TDRD9	0	.	GRCh37
TENM1	0	.	GRCh37
TENM2	0	.	GRCh37
TERF2	0	.	GRCh37
TET3	0	.	GRCh37
TEX14	0	.	GRCh37
TEX2	0	.	GRCh37
TEX26	0	.	GRCh37
TFB1M	0	.	GRCh37
TFDP3	0	.	GRCh37
TFPT	0	.	GRCh37
TGFBR3	0	.	GRCh37

VEP annotated somatic variants

TGIF2LX	0	.	GRCh37
TGM7	0	.	GRCh37
THBS2	0	.	GRCh37
THEG	0	.	GRCh37
THSD7A	0	.	GRCh37
THTPA	0	.	GRCh37
THUMP2	0	.	GRCh37
TIAM1	0	.	GRCh37
TIAM2	0	.	GRCh37
TICAM1	0	.	GRCh37
TIMM21	0	.	GRCh37
TKT	0	.	GRCh37
TKT	0	.	GRCh37
TLCD1	0	.	GRCh37
TLE3	0	.	GRCh37
TLE3	0	.	GRCh37
TLK2	0	.	GRCh37
TLL1	0	.	GRCh37
TLL2	0	.	GRCh37
TLL2	0	.	GRCh37
TLL2	0	.	GRCh37
TLN2	0	.	GRCh37
TLX2	0	.	GRCh37
TMED6	0	.	GRCh37
TMEM131	0	.	GRCh37
TMEM140	0	.	GRCh37
TMEM150C	0	.	GRCh37
TMEM185A	0	.	GRCh37
TMEM216	0	.	GRCh37
TMEM220	0	.	GRCh37
TMPRSS11A	0	.	GRCh37
TNFAIP3	0	.	GRCh37
TNFSF8	0	.	GRCh37
TNRC18	0	.	GRCh37
TNS4	0	.	GRCh37
TNS4	0	.	GRCh37
TP53BP1	0	.	GRCh37
TP53BP1	0	.	GRCh37
TP53BP1	0	.	GRCh37
TPGS2	0	.	GRCh37
TPM4	0	.	GRCh37
TPPP	0	.	GRCh37
TPPP	0	.	GRCh37
TPRG1	0	.	GRCh37
TRAPPC6A	0	.	GRCh37
TRAPPC6B	0	.	GRCh37
TRAPPC6B	0	.	GRCh37
TRERF1	0	.	GRCh37
TREX2	0	.	GRCh37
TRIM15	0	.	GRCh37
TRIM27	0	.	GRCh37
TRIM46	0	.	GRCh37
TRIM62	0	.	GRCh37
TRIM67	0	.	GRCh37
TRIM9	0	.	GRCh37

VEP annotated somatic variants

TRIM9	0	.	GRCh37
TRIO	0	.	GRCh37
TRIP6	0	.	GRCh37
TRMT1	0	.	GRCh37
TRMT2B	0	.	GRCh37
TRPC4AP	0	.	GRCh37
TRPM1	0	.	GRCh37
TRPM5	0	.	GRCh37
TRPM7	0	.	GRCh37
TRPV4	0	.	GRCh37
TSC1	0	.	GRCh37
TSC1	0	.	GRCh37
TSC2	0	.	GRCh37
TSPAN1	0	.	GRCh37
TSPAN6	0	.	GRCh37
TSPAN7	0	.	GRCh37
TSSK2	0	.	GRCh37
TTBK1	0	.	GRCh37
TTBK1	0	.	GRCh37
TTC18	0	.	GRCh37
TTC19	0	.	GRCh37
TTC28	0	.	GRCh37
TTC40	0	.	GRCh37
TTC40	0	.	GRCh37
TTC40	0	.	GRCh37
TTC40	0	.	GRCh37
TTC40	0	.	GRCh37
TTC40	0	.	GRCh37
TLL1	0	.	GRCh37
TLL6	0	.	GRCh37
TUB	0	.	GRCh37
TUBGCP5	0	.	GRCh37
TUBGCP6	0	.	GRCh37
TULP4	0	.	GRCh37
TULP4	0	.	GRCh37
TWF1	0	.	GRCh37
TYMP	0	.	GRCh37
UBASH3A	0	.	GRCh37
UBASH3B	0	.	GRCh37
UBE3C	0	.	GRCh37
UBR4	0	.	GRCh37
UBXN2B	0	.	GRCh37
UCP3	0	.	GRCh37
UHRF1	0	.	GRCh37
UHRF2	0	.	GRCh37
ULK4	0	.	GRCh37
UMODL1	0	.	GRCh37
UMODL1	0	.	GRCh37
UMODL1	0	.	GRCh37
UNC45B	0	.	GRCh37
UNKL	0	.	GRCh37
Unknown	0	.	GRCh37
UPB1	0	.	GRCh37
UPRT	0	.	GRCh37
USH2A	0	.	GRCh37
USHBP1	0	.	GRCh37

VEP annotated somatic variants

USP10	0	.	GRCh37
USP11	0	.	GRCh37
USP18	0	.	GRCh37
USP20	0	.	GRCh37
USP22	0	.	GRCh37
USP34	0	.	GRCh37
UTP15	0	.	GRCh37
UTP20	0	.	GRCh37
UTP20	0	.	GRCh37
UTY	0	.	GRCh37
VIM	0	.	GRCh37
VIPR2	0	.	GRCh37
VRK2	0	.	GRCh37
VTI1B	0	.	GRCh37
WBSCR22	0	.	GRCh37
WBSCR22	0	.	GRCh37
WBSCR27	0	.	GRCh37
WDFY4	0	.	GRCh37
WDR11	0	.	GRCh37
WDR11	0	.	GRCh37
WDR11	0	.	GRCh37
WDR11	0	.	GRCh37
WDR11	0	.	GRCh37
WDR17	0	.	GRCh37
WDR26	0	.	GRCh37
WDR43	0	.	GRCh37
WDR48	0	.	GRCh37
WDR60	0	.	GRCh37
WDR87	0	.	GRCh37
WDR91	0	.	GRCh37
WIPI2	0	.	GRCh37
WNK1	0	.	GRCh37
WNT2B	0	.	GRCh37
WNT8B	0	.	GRCh37
WRNIP1	0	.	GRCh37
WSB2	0	.	GRCh37
WWC1	0	.	GRCh37
WWP2	0	.	GRCh37
XAB2	0	.	GRCh37
XKR8	0	.	GRCh37
XPNPEP1	0	.	GRCh37
XPNPEP3	0	.	GRCh37
XPO5	0	.	GRCh37
XRCC1	0	.	GRCh37
XRCC1	0	.	GRCh37
YBX2	0	.	GRCh37
YY1AP1	0	.	GRCh37
YY1AP1	0	.	GRCh37
ZBTB2	0	.	GRCh37
ZC2HC1B	0	.	GRCh37
ZC3H12D	0	.	GRCh37
ZC3H12D	0	.	GRCh37
ZC3H12D	0	.	GRCh37
ZC3H3	0	.	GRCh37
ZC3H7B	0	.	GRCh37

VEP annotated somatic variants

ZCCHC18	0	.	GRCh37
ZDHHC16	0	.	GRCh37
ZDHHC6	0	.	GRCh37
ZDHHC7	0	.	GRCh37
ZFAND2A	0	.	GRCh37
ZFHX2	0	.	GRCh37
ZFPM2	0	.	GRCh37
ZFYVE19	0	.	GRCh37
ZKSCAN5	0	.	GRCh37
ZMYND10	0	.	GRCh37
ZMYND10	0	.	GRCh37
ZNF185	0	.	GRCh37
ZNF275	0	.	GRCh37
ZNF304	0	.	GRCh37
ZNF324	0	.	GRCh37
ZNF365	0	.	GRCh37
ZNF414	0	.	GRCh37
ZNF420	0	.	GRCh37
ZNF432	0	.	GRCh37
ZNF441	0	.	GRCh37
ZNF449	0	.	GRCh37
ZNF493	0	.	GRCh37
ZNF512B	0	.	GRCh37
ZNF592	0	.	GRCh37
ZNF598	0	.	GRCh37
ZNF614	0	.	GRCh37
ZNF626	0	.	GRCh37
ZNF676	0	.	GRCh37
ZNF697	0	.	GRCh37
ZNF708	0	.	GRCh37
ZNF717	0	.	GRCh37
ZNF75D	0	.	GRCh37
ZNF785	0	.	GRCh37
ZNF816	0	.	GRCh37
ZNF839	0	.	GRCh37
ZP1	0	.	GRCh37
ZSCAN2	0	.	GRCh37
ZSWIM4	0	.	GRCh37
ZZEF1	0	.	GRCh37

VEP annotated somatic variants

Chromosome	Start_Position	End_Position	Strand
3	151458754	151458755	+
9	99408152	99408152	+
7	121758290	121758290	+
17	67212031	67212031	+
16	2326640	2326640	+
17	67133352	67133352	+
17	67099129	67099129	+
17	67023755	67023755	+
16	16228278	16228278	+
16	16278976	16278976	+
11	17419279	17419279	+
18	19284677	19284678	+
17	912914	912914	+
7	28996944	28996944	+
3	5229643	5229643	+
11	134132364	134132364	+
1	76190569	76190569	+
10	124813127	124813127	+
1	226334605	226334605	+
19	6333604	6333604	+
11	47266762	47266762	+
3	140998214	140998214	+
15	78473309	78473309	+
16	89167828	89167828	+
12	7457217	7457217	+
3	38520767	38520767	+
1	155033918	155033918	+
2	9650350	9650351	+
10	72513635	72513635	+
5	178557142	178557142	+
12	43887065	43887065	+
1	161163633	161163633	+
5	64625166	64625166	+
9	18753529	18753529	+
1	203119929	203119943	+
1	112046197	112046197	+
10	116073801	116073801	+
4	88052219	88052219	+
X	147967544	147967544	+
7	150814340	150814341	+
7	134673958	134673958	+
3	148459395	148459395	+
6	135749682	135749682	+
16	31539386	31539386	+
6	143382110	143382110	+
1	26662774	26662774	+
1	26662904	26662904	+
17	6331817	6331817	+
21	45708277	45708277	+
21	45710107	45710107	+
7	91707197	91707197	+
7	91659150	91659150	+
7	134225788	134225788	+
4	74279398	74279398	+

VEP annotated somatic variants

19	49962892	49962892	+
15	101448571	101448571	+
10	45938746	45938746	+
15	85360004	85360004	+
15	85403340	85403340	+
11	118071097	118071097	+
11	118074117	118074117	+
2	112552427	112552427	+
8	41585384	41585384	+
2	190593169	190593173	+
11	113264521	113264521	+
12	133304126	133304126	+
9	33572347	33572347	+
10	27326999	27326999	+
3	15727823	15727823	+
1	145561116	145561116	+
12	56648777	56648777	+
5	55455600	55455600	+
2	201501857	201501857	+
11	112131049	112131049	+
22	29737823	29737823	+
19	50303459	50303459	+
15	51222966	51222966	+
15	51233761	51233761	+
10	26781157	26781157	+
X	84322103	84322103	+
2	241631413	241631413	+
2	241631267	241631267	+
18	24442056	24442056	+
5	115338958	115338958	+
12	49334639	49334640	+
4	148984321	148984321	+
10	99024572	99024572	+
X	130219723	130219723	+
X	153176284	153176284	+
1	156929023	156929023	+
1	3383665	3383665	+
1	155948438	155948438	+
3	56771251	56771251	+
13	111870037	111870037	+
9	34623338	34623338	+
10	18964097	18964097	+
3	137958438	137958438	+
X	100743037	100743037	+
X	100743826	100743826	+
X	100742551	100742551	+
X	100749585	100749585	+
17	4622551	4622551	+
19	18119678	18119678	+
19	18119399	18119399	+
22	51065361	51065361	+
22	19965428	19965428	+
7	150883761	150883761	+
3	57314594	57314594	+
7	95115500	95115500	+



VEP annotated somatic variants

9	132404347	132404347	+
2	220380125	220380125	+
17	79972901	79972901	+
2	96798510	96798510	+
2	96795944	96795944	+
9	119449230	119449230	+
18	31263320	31263320	+
7	117008580	117008580	+
1	63269580	63269580	+
14	51062270	51062270	+
13	113536467	113536467	+
1	17326540	17326540	+
1	160105367	160105367	+
1	160156027	160156027	+
16	84459424	84459424	+
10	7849054	7849054	+
X	77276413	77276413	+
18	55399089	55399089	+
20	50273749	50273749	+
20	50225206	50225206	+
3	48505302	48505302	+
16	28845584	28845584	+
X	69459945	69459945	+
X	69261818	69261818	+
1	179414105	179414105	+
16	338332	338333	+
19	17922795	17922795	+
17	79060180	79060180	+
16	1393575	1393575	+
4	123664204	123664204	+
19	41903699	41903699	+
7	72966638	72966638	+
X	129186012	129186012	+
11	61724787	61724787	+
12	32491915	32491915	+
10	97987378	97987378	+
X	50654091	50654091	+
15	83951807	83951807	+
20	31609246	31609246	+
17	65936805	65936805	+
17	41215825	41215825	+
17	41219560	41219560	+
17	41226601	41226601	+
13	32903685	32903685	+
5	870740	870740	+
21	40652142	40652142	+
1	32832292	32832292	+
19	577760	577760	+
19	580575	580575	+
10	124097427	124097427	+
10	124089075	124089075	+
1	92568304	92568304	+
12	92539105	92539105	+
5	180486247	180486247	+
17	56384374	56384374	+

VEP annotated somatic variants

10	73483954	73483955	+
10	50534862	50534862	+
10	128153623	128153623	+
11	47182926	47182926	+
12	117160976	117160976	+
12	96927817	96927817	+
12	14976418	14976419	+
14	23729976	23729979	+
17	4806428	4806428	+
17	42239349	42239349	+
19	1231142	1231142	+
19	38794895	38794895	+
X	119760629	119760629	+
1	244735858	244735858	+
1	67569129	67569132	+
1	57216949	57216949	+
1	75086412	75086412	+
17	77043574	77043574	+
2	241826477	241826477	+
2	74643451	74643451	+
19	6697829	6697829	+
4	128905672	128905672	+
9	123744252	123744252	+
9	123737040	123737040	+
6	4079875	4079875	+
5	40937863	40937863	+
17	49711045	49711045	+
16	87925534	87925534	+
22	24466964	24466964	+
19	13323642	13323647	+
9	140881314	140881314	+
12	2702590	2702590	+
3	50416785	50416785	+
3	50402309	50402309	+
10	18787195	18787195	+
6	7329987	7329987	+
7	134635040	134635040	+
19	13049423	13049423	+
10	12870927	12870927	+
4	114458402	114458402	+
2	44931520	44931520	+
19	7675369	7675369	+
6	44144798	44144798	+
1	230891248	230891248	+
19	5914938	5914938	+
22	37902177	37902177	+
19	48734018	48734018	+
19	15166997	15166997	+
1	160163449	160163449	+
1	10704876	10704876	+
19	38848861	38848861	+
3	8775589	8775589	+
16	57550331	57550331	+
2	55764755	55764764	+
19	15131330	15131330	+

VEP annotated somatic variants

18	47777358	47777358	+
X	48926261	48926261	+
7	92987771	92987771	+
17	79637548	79637548	+
10	106124620	106124620	+
4	77278676	77278676	+
13	36788758	36788758	+
1	93712532	93712532	+
17	80159665	80159665	+
10	61665842	61665842	+
11	86098732	86098732	+
9	34690400	34690400	+
3	46400062	46400062	+
6	74497009	74497009	+
3	112545911	112545911	+
1	160803802	160803802	+
17	72478031	72478031	+
19	45912002	45912002	+
1	207934849	207934849	+
17	80274142	80274168	+
5	137549089	137549089	+
11	64602757	64602757	+
22	19506456	19506456	+
3	45134822	45134822	+
5	19747396	19747396	+
6	110942653	110942653	+
17	73997639	73997639	+
5	68557958	68557958	+
6	21065450	21065450	+
X	18668769	18668769	+
20	5107809	5107809	+
6	31085340	31085340	+
6	31088202	31088202	+
19	42083495	42083495	+
19	42311060	42311061	+
22	17669151	17669151	+
22	18018604	18018604	+
22	17990852	17990852	+
22	17619378	17619378	+
22	17601466	17601466	+
X	100375371	100375371	+
6	126661502	126661502	+
20	34060062	34060062	+
20	34082583	34082583	+
3	134214042	134214042	+
3	134226159	134226159	+
3	138289221	138289221	+
17	62517456	62517456	+
9	131191403	131191403	+
16	66976249	66976249	+
1	196659237	196659237	+
7	117307108	117307108	+
19	49558667	49558667	+
1	146714392	146714392	+
12	133448815	133448815	+

VEP annotated somatic variants

12	133447242	133447242	+
1	111778325	111778325	+
17	7360110	7360110	+
15	40764549	40764549	+
16	11004150	11004150	+
14	102814945	102814945	+
12	120135717	120135717	+
X	71521867	71521867	+
5	80561943	80561943	+
1	11893715	11893715	+
1	16355877	16355877	+
7	100875598	100875598	+
12	8693418	8693418	+
X	154507173	154507173	+
1	25153500	25153500	+
12	122839909	122839909	+
2	29383374	29383374	+
X	21619305	21619305	+
10	101137063	101137063	+
16	58575489	58575489	+
2	101883046	101883046	+
6	88853635	88853635	+
3	3030223	3030223	+
7	147926888	147926888	+
7	147926734	147926734	+
9	123929686	123929686	+
7	51093049	51093049	+
16	70530359	70530359	+
7	106965009	106965009	+
10	105796465	105796466	+
5	177686815	177686815	+
1	86435850	86435850	+
1	86482958	86482958	+
7	101200727	101200727	+
X	107420287	107420287	+
19	10080194	10080194	+
21	47417303	47417303	+
2	238289490	238289492	+
22	19951207	19951207	+
1	245005373	245005373	+
3	148902954	148902954	+
15	83240441	83240441	+
5	173383194	173383194	+
1	207653364	207653364	+
9	126131161	126131161	+
7	30706799	30706799	+
2	36624021	36624021	+
2	36669670	36669670	+
6	49696473	49696473	+
20	20019154	20019155	+
15	91162945	91162945	+
3	97611916	97611916	+
3	97541018	97541018	+
X	151904488	151904488	+
20	472855	472855	+

VEP annotated somatic variants

15	75977920	75977920	+
20	56099305	56099305	+
16	11540760	11540760	+
10	69366602	69366602	+
9	111755008	111755008	+
10	17130199	17130199	+
10	35362977	35362977	+
6	43006408	43006408	+
7	101559302	101559302	+
7	101845476	101845476	+
2	180815528	180815528	+
2	180810180	180810180	+
11	107299631	107299631	+
X	70837517	70837517	+
11	61118437	61118437	+
11	7691019	7691019	+
19	41601609	41601609	+
19	41600800	41600800	+
7	99364703	99364704	+
19	15784377	15784377	+
7	91758422	91758422	+
11	61487690	61487690	+
2	136740900	136740900	+
3	137882752	137882752	+
19	14065534	14065534	+
19	14065341	14065341	+
19	14065074	14065074	+
18	50832102	50832102	+
6	24205236	24205236	+
4	155412587	155412587	+
4	183815688	183815688	+
12	31246086	31246086	+
12	31242725	31242725	+
1	200617533	200617533	+
9	126202551	126202551	+
11	9225486	9225486	+
5	59995820	59995820	+
22	19050635	19050635	+
7	14737676	14737676	+
1	12639018	12639018	+
10	127529756	127529757	+
12	125465023	125465023	+
17	41603882	41603882	+
17	41582284	41582284	+
17	41599383	41599383	+
5	140956464	140956464	+
12	51093032	51093032	+
15	66625725	66625728	+
1	232002392	232002392	+
1	231954872	231954872	+
8	42233448	42233448	+
11	83497637	83497637	+
X	69668463	69668463	+
10	79571843	79571843	+
6	43422698	43422698	+

VEP annotated somatic variants

19	35993661	35993661	+
10	70190155	70190155	+
7	21827297	21827297	+
3	57422824	57422824	+
1	225492845	225492845	+
1	225477793	225477793	+
1	225492545	225492545	+
1	225541666	225541666	+
1	225519116	225519116	+
17	76569056	76569056	+
6	38796135	38796135	+
17	11837161	11837161	+
1	38025103	38025103	+
1	84876501	84876501	+
10	101639546	101639546	+
5	169472765	169472765	+
3	51393457	51393457	+
19	2223327	2223327	+
16	89704365	89704365	+
19	38708398	38708398	+
1	101458396	101458396	+
12	63974439	63974439	+
1	11772491	11772491	+
X	100511098	100511098	+
X	100505617	100505617	+
X	100514986	100514986	+
11	117375596	117375596	+
18	29036519	29036522	+
18	28993501	28993501	+
18	28956904	28956904	+
6	7556063	7556063	+
6	56496904	56496904	+
14	31922408	31922408	+
6	15652266	15652266	+
5	118280395	118280395	+
7	76111835	76111835	+
22	31060029	31060029	+
12	89744773	89744773	+
7	95616330	95616330	+
11	103192039	103192039	+
1	43638185	43638185	+
X	48382236	48382236	+
1	21573855	21573855	+
2	233347919	233347919	+
3	172486964	172486964	+
6	139134558	139134558	+
1	184706920	184706920	+
6	12292772	12292772	+
13	78477256	78477256	+
12	93202726	93202726	+
20	62127121	62127121	+
6	8102361	8102362	+
17	45447734	45447734	+
17	60464839	60464842	+
12	3768705	3768705	+

VEP annotated somatic variants

3	19975139	19975139	+
15	82545188	82545188	+
17	42945296	42945296	+
X	24073761	24073761	+
X	129201179	129201179	+
22	37771158	37771158	+
22	37770066	37770066	+
22	37770357	37770357	+
7	73469169	73469169	+
6	10990074	10990074	+
1	19565344	19565344	+
8	109491399	109491399	+
8	109488937	109488937	+
14	100380948	100380948	+
14	100363671	100363671	+
14	100363672	100363672	+
2	119604255	119604255	+
9	130578404	130578404	+
13	43985992	43985992	+
10	97582968	97582968	+
14	74426375	74426375	+
12	132464406	132464406	+
7	142564854	142564854	+
1	226026406	226026406	+
8	27394366	27394366	+
17	62144344	62144344	+
12	53671549	53671549	+
3	138191232	138191232	+
15	76578762	76578762	+
19	51850290	51850290	+
19	44031324	44031324	+
1	93101670	93101670	+
19	7912816	7912816	+
19	7917919	7917919	+
17	74015819	74015819	+
17	74006136	74006136	+
14	69695888	69695888	+
1	242042301	242042301	+
4	56770438	56770438	+
6	159210283	159210283	+
X	154158285	154158285	+
X	154194989	154194989	+
X	138643964	138643964	+
X	57318907	57318907	+
11	61615803	61615803	+
11	61645967	61645967	+
15	80452886	80452886	+
22	45728370	45728370	+
X	133955848	133955849	+
X	133955849	133955850	+
X	134156121	134156121	+
X	134155904	134155904	+
8	139277934	139277934	+
6	117083182	117083182	+
11	73179426	73179426	+

VEP annotated somatic variants

11	82443417	82443417	+
4	17649233	17649233	+
12	50724267	50724267	+
19	35719644	35719644	+
1	155224091	155224091	+
10	46222724	46222724	+
1	150974162	150974162	+
6	24818785	24818785	+
5	94756010	94756010	+
16	89865650	89865650	+
6	35423489	35423489	+
6	35424188	35424188	+
6	35423662	35423662	+
12	29486745	29486745	+
2	242374358	242374358	+
2	242405021	242405021	+
17	80044211	80044211	+
17	80044078	80044078	+
17	80045147	80045147	+
17	80059487	80059487	+
3	13612319	13612319	+
19	8159339	8159339	+
12	133102462	133102462	+
5	135276814	135276814	+
9	37512734	37512734	+
9	37529344	37529344	+
19	39437014	39437014	+
3	48419723	48419723	+
10	103432635	103432635	+
1	207135991	207135991	+
19	17886940	17886940	+
5	176520243	176520243	+
4	155525970	155525970	+
18	34232952	34232952	+
18	34310668	34310668	+
18	34233231	34233231	+
2	164468328	164468328	+
4	54280963	54280964	+
7	72754645	72754645	+
2	179341953	179341953	+
X	153594535	153594535	+
3	58092346	58092346	+
5	180045700	180045701	+
1	240497598	240497598	+
1	240492543	240492543	+
1	171076935	171076935	+
11	47788664	47788669	+
11	47776283	47776283	+
6	159682206	159682206	+
6	159653635	159653635	+
6	1395043	1395043	+
6	41552429	41552429	+
9	130576075	130576075	+
4	79238649	79238649	+
4	79394836	79394836	+



VEP annotated somatic variants

4	79400868	79400868	+
4	79238496	79238496	+
4	79403146	79403146	+
4	144617842	144617842	+
10	13702231	13702231	+
15	40055973	40055973	+
4	162421109	162421109	+
9	133511390	133511390	+
19	49254573	49254573	+
19	5832589	5832589	+
11	117693255	117693255	+
3	46007702	46007702	+
3	30769948	30769948	+
4	871624	871624	+
4	905401	905401	+
14	88407917	88407917	+
14	88459656	88459656	+
17	73759061	73759061	+
5	153783587	153783587	+
2	31135184	31135184	+
12	4830000	4830000	+
12	4873163	4873163	+
18	29867504	29867504	+
18	29867091	29867091	+
18	29847739	29847740	+
9	130027009	130027009	+
1	89735314	89735314	+
1	89727870	89727870	+
1	89732237	89732237	+
17	79770740	79770740	+
6	10587056	10587056	+
9	74846104	74846104	+
20	42891809	42891809	+
10	48414549	48414549	+
14	39587348	39587348	+
3	158380546	158380546	+
2	85788140	85788140	+
19	38876464	38876464	+
19	38876352	38876352	+
17	40341909	40341909	+
6	149899916	149899916	+
20	25398790	25398790	+
16	74499589	74499589	+
16	74503860	74503860	+
16	4386645	4386645	+
6	38670837	38670837	+
X	102979486	102979486	+
X	102978965	102978965	+
12	104387138	104387138	+
11	58605673	58605673	+
2	70076954	70076954	+
22	23438191	23438191	+
22	19808769	19808769	+
4	68619601	68619601	+
12	133363006	133363006	+

VEP annotated somatic variants

17	4835895	4835895	+
13	95034763	95034763	+
6	24463055	24463055	+
X	13795394	13795395	+
2	27851904	27851904	+
X	136113464	136113464	+
10	134886618	134886618	+
10	134902253	134902253	+
10	134910629	134910629	+
10	134916366	134916366	+
15	40212031	40212031	+
11	123480981	123480981	+
3	113601761	113601761	+
22	47064164	47064164	+
22	47070747	47070747	+
22	47061659	47061659	+
2	11755497	11755497	+
5	152871721	152871721	+
4	158242540	158242540	+
X	122338205	122338205	+
3	7620382	7620382	+
16	85682071	85682071	+
9	124089692	124089692	+
X	51486659	51486659	+
11	67353844	67353844	+
14	77787844	77787844	+
10	1055055	1055055	+
10	1065406	1065406	+
X	108628579	108628579	+
3	73024350	73024350	+
12	96384345	96384345	+
19	35775594	35775594	+
12	48192062	48192062	+
12	48181778	48181778	+
7	19015652	19015652	+
6	125598408	125598408	+
X	6995315	6995315	+
1	236720467	236720467	+
1	236746511	236746511	+
1	236749626	236749626	+
7	810219	810219	+
14	31619121	31619121	+
14	31647519	31647519	+
10	96341336	96341336	+
10	96305729	96305729	+
3	50617502	50617502	+
15	64050665	64050665	+
6	26091179	26091179	+
7	81358953	81358953	+
3	42740492	42740492	+
14	100135306	100135306	+
17	42925559	42925559	+
5	130497976	130497976	+
6	26200256	26200256	+
6	26198980	26198980	+

VEP annotated somatic variants

6	26027433	26027433	+
10	70998925	70998925	+
6	33052981	33052981	+
21	38132172	38132172	+
3	148777446	148777448	+
11	118962230	118962230	+
22	35680095	35680095	+
22	35660875	35660875	+
12	121431272	121431272	+
19	41807363	41807363	+
19	12877042	12877042	+
19	35551225	35551226	+
10	103825747	103825747	+
19	36247708	36247708	+
7	154862621	154862621	+
X	53641647	53641647	+
X	53602646	53602646	+
21	45656774	45656774	+
21	45655519	45655519	+
21	45643008	45643008	+
15	90634691	90634691	+
15	78457242	78457242	+
1	158986477	158986477	+
21	34614255	34614255	+
15	99473606	99473606	+
6	160465753	160465753	+
6	160524773	160524773	+
6	160479882	160479882	+
19	51825238	51825238	+
X	130415818	130415818	+
X	130410965	130410965	+
X	130416878	130416878	+
3	118624631	118624631	+
3	118621664	118621664	+
3	118645118	118645118	+
11	18741260	18741260	+
11	133805441	133805444	+
9	111653574	111653574	+
3	9969933	9969934	+
6	137330503	137330503	+
1	24463854	24463854	+
10	6054765	6054765	+
16	30016820	30016820	+
11	2181073	2181073	+
11	2169110	2169110	+
19	7166376	7166376	+
19	7167951	7167951	+
7	1538021	1538021	+
7	1510719	1510719	+
13	51956067	51956067	+
5	75907065	75907065	+
1	156505079	156505079	+
12	280349	280349	+
7	128588475	128588475	+
19	44223667	44223667	+

VEP annotated somatic variants

1	145538664	145538664	+
1	145535921	145535921	+
2	182360182	182360182	+
3	37695192	37695192	+
3	52855229	52855229	+
3	52860936	52860936	+
3	52851137	52851137	+
X	78618050	78618050	+
1	226836498	226836498	+
12	26869233	26869233	+
12	26572244	26572244	+
6	33635565	33635565	+
10	106075081	106075081	+
21	35247611	35247611	+
21	35230921	35230921	+
4	129770068	129770068	+
X	46884050	46884050	+
10	133963466	133963466	+
6	15374533	15374533	+
6	15487782	15487782	+
6	15496662	15496662	+
11	96125436	96125437	+
9	745289	745289	+
1	62704134	62704134	+
1	62739198	62739198	+
1	62713246	62713246	+
6	149953981	149953981	+
19	49574125	49574125	+
3	156233996	156233996	+
8	36662680	36662680	+
7	128533818	128533818	+
12	109907308	109907308	+
13	45768759	45768759	+
5	137760048	137760048	+
1	44137607	44137607	+
19	5135337	5135337	+
Y	21905008	21905008	+
X	44929077	44929077	+
7	139820354	139820354	+
7	139801777	139801777	+
7	139797431	139797431	+
22	45608192	45608192	+
4	123111354	123111354	+
6	138584685	138584685	+
8	95521854	95521861	+
19	18368608	18368608	+
6	111583381	111583381	+
1	200577919	200577919	+
1	21042094	21042094	+
17	72339369	72339369	+
2	241722621	241722622	+
17	4910485	4910485	+
10	91505816	91505817	+
1	169993762	169993762	+
10	7808086	7808086	+

VEP annotated somatic variants

8	103663912	103663912	+
4	166141086	166141086	+
4	88091449	88091449	+
12	9147926	9147926	+
7	151836397	151836397	+
10	135015427	135015427	+
12	123087442	123087442	+
7	98782750	98782750	+
17	45747277	45747277	+
22	29533275	29533275	+
17	38974814	38974814	+
17	39620733	39620733	+
17	39642561	39642561	+
21	46047971	46047971	+
21	46078220	46078220	+
21	46074202	46074202	+
22	41620825	41620825	+
6	129674562	129674562	+
6	129380844	129380844	+
6	112506375	112506375	+
6	112506583	112506583	+
1	183099701	183099701	+
1	183079853	183079853	+
1	183104013	183104013	+
1	183155482	183155482	+
6	150004779	150004779	+
1	152573162	152573162	+
9	139649217	139649218	+
1	22148164	22148164	+
12	65612499	65612499	+
7	2565268	2565268	+
19	54848986	54848986	+
7	73522361	73522361	+
19	2290499	2290499	+
12	49494854	49494854	+
13	76395278	76395278	+
5	96349590	96349590	+
8	12600837	12600837	+
X	118108785	118108785	+
X	118120908	118120908	+
15	74238734	74238734	+
3	188426256	188426256	+
12	25249785	25249785	+
2	140992337	140992337	+
11	68179125	68179125	+
22	25750656	25750656	+
22	25747923	25747923	+
4	3521939	3521939	+
14	50069282	50069282	+
10	50122181	50122181	+
8	86057798	86057798	+
12	85547008	85547008	+
3	194387253	194387253	+
19	34706203	34706203	+
4	147110891	147110891	+

VEP annotated somatic variants

21	47630550	47630550	+
21	30315730	30315730	+
11	24998286	24998286	+
19	42343155	42343155	+
1	151137793	151137793	+
10	102770082	102770082	+
10	102762256	102762256	+
7	2108982	2108982	+
4	120983259	120983259	+
X	152483088	152483088	+
X	151899913	151899913	+
X	30260217	30260217	+
X	140993150	140993150	+
X	141290865	141290865	+
X	54836127	54836127	+
9	139752333	139752333	+
X	149680539	149680539	+
6	119509785	119509785	+
5	109110537	109110537	+
4	6594947	6594947	+
19	17838787	17838787	+
X	19482476	19482476	+
17	61770856	61770856	+
19	39100297	39100297	+
2	102445893	102445893	+
3	50679045	50679047	+
19	12958360	12958360	+
19	12963143	12963143	+
5	65892448	65892448	+
20	43933021	43933021	+
3	182754967	182754967	+
21	47674275	47674275	+
6	37623626	37623626	+
6	90363802	90363802	+
6	90363803	90363803	+
X	153296337	153296337	+
X	40514122	40514122	+
9	136213521	136213521	+
19	50335510	50335510	+
19	39884273	39884273	+
19	19297630	19297630	+
1	3415657	3415657	+
18	29800119	29800119	+
2	112786523	112786524	+
14	21970091	21970091	+
2	172188368	172188368	+
19	3546185	3546185	+
17	74936576	74936576	+
17	74921257	74921257	+
17	74928758	74928758	+
10	131506283	131506283	+
22	18379160	18379160	+
22	18368548	18368548	+
22	18372020	18372020	+
X	10437968	10437968	+

VEP annotated somatic variants

17	4784249	4784249	+
17	4796656	4796656	+
12	121132100	121132100	+
1	233512362	233512362	+
19	6262355	6262355	+
10	127460753	127460753	+
7	156801661	156801661	+
19	2076974	2076974	+
X	106221490	106221490	+
X	106200202	106200202	+
15	79133026	79133026	+
11	118108003	118108003	+
11	94225807	94225807	+
1	55119515	55119515	+
1	55139741	55139741	+
1	55136529	55136529	+
17	45904163	45904163	+
9	140446449	140446449	+
10	102746829	102746829	+
6	42176544	42176544	+
11	10655623	10655623	+
2	47635776	47635776	+
4	166259161	166259161	+
1	11181327	11181327	+
1	237054569	237054569	+
1	237060433	237060433	+
1	237001926	237001926	+
1	237057608	237057608	+
4	100513028	100513031	+
19	8997189	8997190	+
19	9084216	9084216	+
12	40805948	40805948	+
12	40954482	40954482	+
11	1101649	1101649	+
16	88721012	88721012	+
X	3228891	3228891	+
17	79899495	79899495	+
11	47371485	47371485	+
16	15820863	15820863	+
3	108174537	108174537	+
14	23899027	23899027	+
14	23895893	23895893	+
14	23887645	23887645	+
22	36691526	36691526	+
3	123411589	123411589	+
17	18058371	18058371	+
22	26241994	26241994	+
17	34863439	34863439	+
19	8587782	8587782	+
15	52629950	52629950	+
19	17283491	17283491	+
1	203055101	203055101	+
10	69908113	69908113	+
11	61551927	61551927	+
1	59134792	59134792	+

VEP annotated somatic variants

9	88633829	88633829	+
9	138908250	138908250	+
16	5083982	5083982	+
19	50862768	50862768	+
17	72769694	72769694	+
2	15448311	15448311	+
17	41361960	41361960	+
17	41352643	41352643	+
17	41330024	41330024	+
17	41331460	41331460	+
19	19329924	19329924	+
12	6620226	6620226	+
11	134031588	134031588	+
2	97032981	97032981	+
20	33342477	33342477	+
17	15950198	15950198	+
1	161183516	161183516	+
2	152474076	152474076	+
2	152552062	152552062	+
2	152581866	152581866	+
4	1986542	1986542	+
1	212619339	212619339	+
1	212617829	212617829	+
1	78395131	78395131	+
4	103518843	103518843	+
10	104155836	104155836	+
3	101571550	101571550	+
6	18122526	18122526	+
6	138820324	138820324	+
1	236176623	236176623	+
14	51214888	51214888	+
1	24782847	24782847	+
5	156898690	156898690	+
5	37064164	37064164	+
22	29966083	29966083	+
3	52514529	52514529	+
14	37050642	37050642	+
X	70386825	70386825	+
2	32449872	32449872	+
19	56565263	56565263	+
19	56552456	56552456	+
19	56520125	56520125	+
19	56228067	56228067	+
12	132635989	132635989	+
9	33469427	33469427	+
4	2941418	2941418	+
20	2638982	2638982	+
1	162335052	162335052	+
7	150696111	150696111	+
7	150703675	150703675	+
9	139396983	139396983	+
9	139405530	139405530	+
7	44553238	44553238	+
10	72015573	72015573	+
7	34874038	34874038	+



VEP annotated somatic variants

7	98254560	98254561	+
3	23986983	23986983	+
1	161208255	161208258	+
14	90752619	90752619	+
5	176639105	176639105	+
5	6605532	6605532	+
3	52558768	52558768	+
19	49559693	49559693	+
7	44444122	44444122	+
13	45540136	45540136	+
8	27925796	27925796	+
12	69109579	69109579	+
9	134103759	134103759	+
6	150067675	150067675	+
22	45580592	45580597	+
4	77045986	77045990	+
4	77038807	77038807	+
17	5289676	5289676	+
17	5290824	5290824	+
X	102339606	102339606	+
X	101087618	101087618	+
X	101087497	101087497	+
X	101087498	101087498	+
17	708531	708531	+
6	41036770	41036770	+
2	220431802	220431802	+
17	80350331	80350331	+
19	46056620	46056620	+
7	99473624	99473624	+
17	3195503	3195503	+
11	55111222	55111222	+
11	51412353	51412353	+
11	55340552	55340552	+
11	5322520	5322520	+
11	5809477	5809477	+
14	21623290	21623290	+
3	97888302	97888302	+
11	55703247	55703247	+
11	56043056	56043056	+
20	60847086	60847086	+
16	83998662	83998662	+
16	83999033	83999033	+
5	38921662	38921663	+
15	31823062	31823062	+
14	23240713	23240714	+
X	69478942	69478942	+
17	79805134	79805134	+
1	40035320	40035320	+
11	65994941	65994941	+
X	55248320	55248320	+
19	726200	726200	+
10	91358943	91358943	+
10	91404448	91404448	+
1	2444414	2444414	+
2	61021342	61021342	+

VEP annotated somatic variants

1	55224751	55224751	+
11	12525925	12525925	+
22	44547355	44547355	+
2	114001921	114001921	+
6	138539315	138539315	+
10	55826470	55826470	+
13	66879139	66879139	+
7	82546282	82546282	+
6	150114745	150114745	+
21	47851424	47851424	+
3	57542173	57542173	+
2	183387446	183387446	+
11	72290629	72290629	+
10	95372734	95372734	+
4	55139638	55139638	+
5	149495395	149495395	+
5	149497177	149497177	+
10	26994150	26994150	+
16	15129459	15129459	+
16	15132108	15132108	+
10	102775350	102775350	+
15	77407114	77407114	+
1	156875037	156875037	+
1	156873727	156873727	+
1	156878737	156878737	+
19	33878837	33878837	+
19	33878198	33878198	+
10	3154534	3154534	+
10	3154339	3154339	+
2	197737842	197737842	+
X	77380307	77380307	+
19	15582863	15582863	+
1	153283179	153283179	+
9	96415653	96415653	+
6	79651133	79651134	+
X	71876187	71876187	+
11	118520918	118520918	+
11	587425	587425	+
1	111893958	111893958	+
1	77588131	77588131	+
18	59768375	59768375	+
17	34893326	34893326	+
17	8784361	8784361	+
2	209150361	209150361	+
22	50354819	50354819	+
22	25158326	25158326	+
X	68381912	68381912	+
16	81193433	81193433	+
6	51712492	51712492	+
12	32974218	32974218	+
6	46684925	46684925	+
8	42037630	42037630	+
2	28771854	28771854	+
10	96053239	96053239	+
10	96014622	96014622	+

VEP annotated somatic variants

10	96084372	96084373	+
10	96058298	96058298	+
16	81887957	81887957	+
1	2409892	2409892	+
1	2420590	2420590	+
8	145001031	145001031	+
8	145011204	145011204	+
8	144990335	144990335	+
8	144995736	144995736	+
8	144990528	144990528	+
8	144992862	144992862	+
1	6533599	6533599	+
14	68046602	68046602	+
14	68041124	68041124	+
14	68053149	68053149	+
1	908823	908823	+
19	1528149	1528150	+
17	37234111	37234111	+
22	50724733	50724733	+
6	99862600	99862601	+
6	36274153	36274153	+
22	44341986	44341986	+
19	7615903	7615903	+
12	89919631	89919632	+
11	62529460	62529460	+
20	18453391	18453391	+
20	18464101	18464101	+
13	38154189	38154189	+
8	128428656	128428656	+
3	12393125	12393125	+
3	12475557	12475557	+
22	22036832	22036832	+
17	56833457	56833458	+
1	161136843	161136843	+
17	79791792	79791792	+
10	133769482	133769482	+
3	135742057	135742058	+
X	48759204	48759204	+
4	121737767	121737767	+
4	81121524	81121524	+
X	23685964	23685964	+
X	23689636	23689636	+
X	23689637	23689637	+
6	105850712	105850712	+
8	69002965	69002965	+
11	57156438	57156438	+
4	185578248	185578248	+
3	53220569	53220569	+
3	53223287	53223291	+
1	2076055	2076055	+
14	23394327	23394327	+
19	5783713	5783713	+
22	45126638	45126638	+
22	45243780	45243780	+
16	31152697	31152698	+

VEP annotated somatic variants

9	79234158	79234159	+
19	43579815	43579815	+
19	43430945	43430945	+
19	43762316	43762316	+
17	65341976	65341976	+
21	40549289	40549289	+
18	12703067	12703067	+
9	114348513	114348513	+
10	129870510	129870510	+
1	44064623	44064623	+
3	61734539	61734539	+
6	128307118	128307118	+
7	157396697	157396697	+
16	1536677	1536677	+
1	31414769	31414769	+
1	31440212	31440212	+
1	31406228	31406228	+
1	31409473	31409474	+
15	55841281	55841281	+
12	21590621	21590621	+
17	29844658	29844658	+
2	238494742	238494742	+
11	87908563	87908563	+
X	69502479	69502479	+
17	5249998	5249998	+
14	24736027	24736027	+
17	79990418	79990419	+
14	68290372	68290372	+
7	4845312	4845312	+
3	12626516	12626516	+
5	34687135	34687135	+
1	21932530	21932530	+
12	48134214	48134214	+
11	47463484	47463484	+
3	50378154	50378154	+
X	47045138	47045138	+
13	79929326	79929326	+
5	145647151	145647151	+
8	30242747	30242747	+
9	36105264	36105264	+
19	45513147	45513152	+
6	139264930	139264930	+
3	108475993	108475994	+
22	29834766	29834766	+
3	53125922	53125922	+
3	53126143	53126143	+
3	16450872	16450872	+
19	11529958	11529958	+
1	240975213	240975213	+
22	45809698	45809698	+
21	43161022	43161022	+
2	86992337	86992338	+
2	86947783	86947783	+
19	12917761	12917761	+
1	182555819	182555819	+

VEP annotated somatic variants

17	41180772	41180772	+
4	154633581	154633581	+
1	33414040	33414040	+
17	8296080	8296080	+
3	78711350	78711350	+
3	78737962	78737962	+
2	11359120	11359120	+
1	64608423	64608423	+
6	117714346	117714346	+
22	30682404	30682404	+
13	76210742	76210742	+
10	97748040	97748040	+
12	31267744	31267744	+
1	15671483	15671483	+
12	48081637	48081637	+
17	181479	181479	+
19	17973862	17973862	+
17	27047015	27047016	+
17	27047016	27047017	+
22	39714490	39714490	+
X	71493691	71493691	+
6	166862431	166862431	+
17	78897547	78897547	+
17	78896529	78896529	+
21	45089877	45089877	+
21	45096206	45096206	+
17	48559559	48559559	+
10	16806545	16806545	+
11	63487386	63487386	+
5	178986987	178986987	+
5	179036457	179036457	+
10	70167004	70167004	+
9	137328286	137328286	+
19	38959680	38959680	+
19	38933120	38933120	+
19	38985101	38985101	+
19	38993118	38993118	+
1	237551376	237551376	+
1	237765470	237765470	+
15	33795775	33795775	+
13	21720868	21720868	+
9	136584264	136584264	+
7	66459145	66459145	+
22	50885775	50885775	+
11	9830595	9830595	+
19	50150105	50150105	+
1	155230131	155230131	+
22	20784217	20784217	+
13	78130924	78130924	+
7	12610594	12610594	+
4	129878342	129878342	+
4	129805716	129805716	+
6	108026402	108026402	+
2	166012203	166012203	+
2	167099158	167099158	+

VEP annotated somatic variants

2	167060449	167060449	+
1	226187129	226187129	+
7	4002204	4002204	+
3	10353538	10353538	+
22	30934886	30934886	+
1	177917479	177917479	+
20	18523002	18523002	+
4	119726949	119726949	+
10	102265446	102265448	+
10	102275780	102275780	+
10	102269206	102269206	+
10	102258439	102258439	+
9	91943884	91943884	+
17	80280054	80280054	+
1	169700961	169700961	+
1	169563062	169563062	+
7	83739762	83739762	+
7	83764309	83764309	+
3	50219991	50219991	+
22	42392811	42392811	+
14	95088626	95088626	+
19	40929553	40929553	+
12	122255910	122255910	+
12	122248775	122248775	+
3	9484025	9484025	+
22	26688388	26688388	+
16	70601254	70601254	+
6	144416685	144416685	+
10	72635144	72635145	+
17	2268681	2268681	+
17	2268139	2268139	+
22	40802739	40802739	+
1	87208953	87208953	+
10	105363289	105363289	+
19	51207508	51207508	+
19	51207775	51207775	+
7	155599300	155599300	+
X	9900279	9900279	+
19	52004469	52004469	+
21	44845436	44845437	+
21	38118089	38118089	+
1	232601241	232601241	+
1	160720074	160720074	+
4	48485674	48485674	+
4	87769929	87769929	+
5	1089037	1089037	+
7	122808528	122808528	+
X	73641569	73641569	+
19	15065171	15065171	+
19	15079104	15079104	+
5	131705949	131705949	+
5	138714817	138714817	+
14	92909073	92909073	+
7	95906737	95906738	+
17	42399754	42399754	+

VEP annotated somatic variants

17	42399223	42399223	+
17	78225035	78225035	+
15	85451852	85451852	+
15	45560655	45560655	+
9	130167338	130167338	+
7	133984878	133984878	+
6	118475798	118475798	+
1	234458668	234458668	+
11	124954282	124954282	+
3	50254624	50254624	+
16	58709777	58709777	+
8	142225990	142225990	+
7	150765236	150765236	+
19	18001839	18001839	+
X	115586700	115586700	+
19	49812403	49812403	+
17	28549898	28549898	+
1	44463170	44463170	+
14	23607271	23607271	+
14	23598976	23598976	+
X	46618321	46618321	+
3	133670201	133670209	+
X	128614827	128614827	+
4	144449251	144449252	+
22	45779553	45779553	+
14	70418881	70418881	+
22	31493125	31493125	+
1	246078824	246078824	+
10	97099169	97099169	+
4	7731310	7731310	+
1	118644430	118644430	+
1	118629599	118629599	+
X	142795438	142795438	+
8	145086924	145086924	+
2	220353104	220353104	+
2	220349351	220349351	+
19	38782485	38782485	+
10	73848075	73848075	+
15	42155816	42155816	+
15	42166333	42166333	+
16	30735348	30735348	+
7	149517978	149517978	+
7	149507964	149507964	+
7	149518961	149518961	+
3	8668094	8668094	+
16	70415567	70415567	+
17	74570707	74570707	+
17	74570408	74570408	+
9	130672600	130672600	+
12	104092996	104092996	+
2	74058260	74058260	+
4	68447040	68447040	+
15	42986979	42986979	+
2	191937738	191937738	+
17	40354497	40354497	+

VEP annotated somatic variants

8	74585325	74585325	+
15	74277795	74277795	+
17	79980756	79980756	+
7	134943328	134943328	+
9	125932153	125932156	+
1	110581780	110581780	+
7	129102743	129102743	+
6	147695051	147695051	+
12	10782115	10782115	+
7	75623954	75623954	+
3	151599379	151599379	+
21	46233863	46233863	+
6	149721690	149721690	+
19	39964247	39964247	+
19	39949764	39949764	+
9	95840077	95840077	+
11	9734945	9734945	+
19	46319415	46319415	+
3	12224712	12224712	+
14	64408852	64408852	+
14	64497710	64497710	+
6	158502527	158502527	+
15	99670265	99670265	+
4	119947985	119947985	+
6	149700491	149700491	+
6	149718650	149718650	+
4	1732978	1732978	+
X	100532985	100532985	+
6	159461931	159461931	+
6	159463221	159463221	+
15	102196186	102196186	+
15	102211654	102211654	+
3	10302172	10302172	+
3	10318230	10318231	+
22	47189616	47189616	+
13	76055397	76055397	+
3	17208267	17208267	+
4	107153024	107153024	+
11	67402744	67402744	+
X	101382005	101382005	+
1	24078504	24078504	+
5	145834529	145834529	+
22	31022590	31022590	+
14	104436931	104436931	+
X	123538803	123538810	+
5	167652999	167652999	+
16	69395434	69395434	+
2	74307792	74307793	+
17	56692800	56692800	+
17	62232165	62232165	+
13	31531009	31531009	+
6	155606325	155606325	+
X	132351861	132351861	+
19	54613420	54613420	+
1	92200593	92200593	+



VEP annotated somatic variants

X	89177673	89177673	+
15	43579566	43579566	+
6	169622263	169622263	+
19	373619	373619	+
7	11581134	11581134	+
14	24029340	24029340	+
2	39996767	39996767	+
21	32525542	32525542	+
6	155571135	155571135	+
19	4816719	4816719	+
18	71825731	71825731	+
3	53268965	53268965	+
3	53260716	53260716	+
17	27053148	27053148	+
15	70346923	70346923	+
15	70349744	70349744	+
17	60558610	60558610	+
4	167020644	167020644	+
10	98133282	98133282	+
10	98146654	98146654	+
10	98133483	98133483	+
15	63092993	63092993	+
2	74741767	74741767	+
16	69385641	69385641	+
2	98382886	98382886	+
7	134849213	134849213	+
4	83411197	83411197	+
X	148685623	148685623	+
11	61161532	61161545	+
17	10618880	10618880	+
4	68777054	68777054	+
6	138197331	138197331	+
9	117668142	117668142	+
7	5399044	5399044	+
17	38644752	38644752	+
17	38640744	38640744	+
15	43767774	43767774	+
15	43724646	43724646	+
15	43730486	43730486	+
18	34398914	34398914	+
19	16187132	16187133	+
5	666323	666323	+
5	665280	665280	+
3	188925391	188925391	+
19	45668327	45668327	+
14	39627695	39627695	+
14	39623533	39623533	+
6	42224546	42224546	+
X	152728003	152728003	+
6	30138662	30138662	+
6	28876509	28876509	+
1	155148781	155148781	+
1	33625275	33625275	+
1	231344908	231344908	+
14	51475794	51475794	+

VEP annotated somatic variants

14	51492135	51492136	+
5	14397238	14397238	+
7	100465171	100465171	+
19	13218417	13218417	+
X	100265713	100265713	+
20	33600740	33600740	+
15	31453056	31453056	+
11	2438963	2438963	+
15	50941131	50941131	+
12	110238630	110238630	+
9	135786904	135786904	+
9	135781563	135781563	+
16	2115697	2115697	+
1	46641827	46641827	+
X	99890204	99890204	+
X	38535174	38535174	+
22	19119938	19119938	+
6	43221264	43221264	+
6	43230970	43230970	+
10	75101070	75101070	+
17	15930087	15930087	+
22	29025743	29025743	+
10	134672798	134672798	+
10	134756013	134756013	+
10	134726470	134726470	+
10	134722022	134722022	+
10	134650440	134650440	+
22	43455531	43455531	+
17	46878625	46878625	+
11	8122228	8122228	+
15	22873325	22873325	+
22	50658017	50658017	+
6	158870081	158870081	+
6	158873376	158873376	+
12	44191434	44191434	+
22	50964657	50964657	+
21	43846729	43846729	+
11	122653689	122653689	+
7	157000176	157000176	+
1	19401296	19401296	+
8	59345705	59345705	+
11	73715666	73715666	+
19	4954454	4954454	+
9	6475319	6475319	+
3	41957466	41957466	+
21	43539523	43539523	+
21	43547873	43547873	+
21	43541342	43541342	+
17	33491278	33491278	+
16	1451533	1451533	+
10	124436375	124436375	+
22	24919627	24919627	+
X	74519534	74519534	+
1	216144049	216144049	+
19	17366278	17366278	+

VEP annotated somatic variants

16	84793822	84793823	+
X	47099242	47099242	+
22	18649922	18649922	+
9	132632653	132632653	+
17	20906272	20906273	+
2	61570855	61570855	+
5	72872766	72872766	+
12	101705433	101705433	+
12	101715202	101715202	+
Y	15448300	15448300	+
10	17278467	17278467	+
7	158823375	158823375	+
2	58276115	58276115	+
14	68118132	68118132	+
7	73115314	73115314	+
7	73101137	73101137	+
7	73249165	73249165	+
10	49929491	49929491	+
10	122646113	122646113	+
10	122624679	122624679	+
10	122659490	122659490	+
10	122663585	122663585	+
10	122664967	122664967	+
4	177093505	177093505	+
1	224577604	224577604	+
2	29158355	29158355	+
3	39093638	39093638	+
7	158718805	158718805	+
19	38377392	38377409	+
7	134878237	134878237	+
7	5262385	5262385	+
12	863152	863152	+
1	113063125	113063125	+
10	102222957	102222957	+
6	2768905	2768905	+
12	118476079	118476079	+
5	167868950	167868950	+
16	69973297	69973297	+
19	7686282	7686282	+
1	28293718	28293718	+
10	111648006	111648006	+
22	41282558	41282558	+
6	43496662	43496662	+
19	44057227	44057227	+
19	44055898	44055898	+
17	7192756	7192756	+
1	155630752	155630752	+
1	155658085	155658085	+
6	151686905	151686905	+
6	144224312	144224312	+
6	149773721	149773721	+
6	149772645	149772645	+
6	149795692	149795692	+
8	144590112	144590112	+
22	41739647	41739647	+

VEP annotated somatic variants

X	103359423	103359423	+
10	99211653	99211653	+
10	114200355	114200355	+
16	85023855	85023855	+
7	1195264	1195264	+
14	23994517	23994517	+
8	106646683	106646683	+
15	41106485	41106485	+
7	99103607	99103607	+
3	50378946	50378946	+
3	50380661	50380661	+
X	152089039	152089039	+
X	152613112	152613112	+
19	57867599	57867599	+
19	58982044	58982044	+
10	64415031	64415031	+
19	8576307	8576307	+
19	37617933	37617933	+
19	52537576	52537576	+
19	11878095	11878095	+
X	134493747	134493747	+
19	21588692	21588692	+
20	62594160	62594160	+
15	85341859	85341859	+
16	2050192	2050192	+
19	52521296	52521296	+
19	20844340	20844341	+
19	22375868	22375868	+
1	120166681	120166681	+
19	21477431	21477431	+
3	75790972	75790972	+
X	134421168	134421168	+
16	30594521	30594521	+
19	53453777	53453777	+
14	102808330	102808330	+
11	60637164	60637164	+
15	85149927	85149927	+
19	13940959	13940959	+
17	3961489	3961489	+

VEP annotated somatic variants

Variant_Classification	Variant_Type	Reference_Allele	Tumor_Seq_Allele1
Intron	INS	-	-
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	A	A
3'UTR	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	A	A
Silent	SNP	T	T
Intron	DEL	C	C
Silent	SNP	C	C
5'UTR	INS	-	-
Splice_Region	SNP	G	G
5'Flank	SNP	T	T
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
5'UTR	SNP	G	G
Intron	SNP	G	G
Splice_Region	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Splice_Region	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	INS	-	-
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Intron	DEL	A	A
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Intron	DEL	TCTGTCTCCCCCTA	TCTGTCTCCCCCTA
5'Flank	SNP	C	C
Silent	SNP	T	T
Intron	SNP	T	T
Intron	SNP	G	G
Intron	INS	-	-
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	C	C
Silent	SNP	C	C
Intron	SNP	T	T
Splice_Region	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C

VEP annotated somatic variants

Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
5'UTR	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Silent	SNP	C	C
Intron	SNP	T	T
Intron	DEL	TTTTT	TTTTT
Intron	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	T	T
Splice_Region	SNP	A	A
Silent	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
5'UTR	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	T	T
5'UTR	SNP	A	A
Intron	SNP	A	A
Missense_Mutation	SNP	G	G
Intron	DEL	GG	GG
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
5'Flank	SNP	C	C
Missense_Mutation	SNP	A	A
Silent	SNP	T	T
Intron	SNP	A	A
Splice_Region	SNP	G	G
Intron	SNP	C	C
5'UTR	SNP	C	C
Missense_Mutation	SNP	A	A
5'Flank	SNP	G	G
Silent	SNP	C	C
Intron	SNP	A	A
Intron	SNP	C	C
Splice_Region	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	A	A
Intron	DEL	T	T

VEP annotated somatic variants

5'UTR	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
3'UTR	SNP	G	G
Silent	SNP	G	G
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	C	C
Splice_Region	SNP	A	A
Missense_Mutation	SNP	A	A
Intron	INS	-	-
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
5'UTR	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Splice_Site	SNP	T	T
Intron	SNP	G	G
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	A	A

VEP annotated somatic variants

5'Flank	INS	-	-
Silent	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Frame_Shift_Del	DEL	TA	TA
Intron	DEL	GAGA	GAGA
3'Flank	SNP	G	G
3'UTR	SNP	T	T
Missense_Mutation	SNP	T	T
5'UTR	SNP	T	T
Missense_Mutation	SNP	A	A
Silent	SNP	A	A
Intron	DEL	TAAT	TAAT
Intron	SNP	T	T
Splice_Region	SNP	G	G
Intron	SNP	T	T
3'UTR	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	G	G
5'UTR	SNP	T	T
Intron	SNP	C	C
Intron	SNP	A	A
Silent	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	DEL	ACACAC	ACACAC
Splice_Region	SNP	A	A
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	C	C
5'UTR	SNP	G	G
3'UTR	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
3'UTR	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	C	C
Silent	SNP	C	C
Intron	DEL	ATATGAATAC	ATATGAATAC
Missense_Mutation	SNP	G	G



VEP annotated somatic variants

Intron	SNP	T	T
3'UTR	SNP	G	G
3'UTR	SNP	A	A
Intron	SNP	T	T
Silent	SNP	A	A
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Silent	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	A	A
Frame_Shift_Del	DEL	T	T
Intron	SNP	A	A
Intron	DEL	T	T
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
In_Frame_Del	DEL	.GGGCAGAGGCTGCTG(.GGGCAGAGGCTGCTG)	
5'Flank	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	A	A
Silent	SNP	A	A
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
5'UTR	SNP	A	A
Intron	SNP	G	G
Intron	INS	-	-
Intron	SNP	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Silent	SNP	T	T
Intron	DEL	A	A
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	T	T
Missense_Mutation	SNP	C	C
Silent	SNP	G	G
5'UTR	SNP	T	T
Silent	SNP	G	G
Intron	SNP	G	G

VEP annotated somatic variants

Intron	SNP	T	T
Missense_Mutation	SNP	C	C
3'UTR	SNP	T	T
3'UTR	SNP	G	G
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
3'UTR	SNP	C	C
5'UTR	SNP	T	T
3'UTR	SNP	T	T
Splice_Site	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Silent	SNP	G	G
Intron	SNP	A	A
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	A	A
Splice_Region	SNP	A	A
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Intron	INS	-	-
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	T	T
Intron	DEL	TTG	TTG
Silent	SNP	C	C
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
3'UTR	SNP	C	C
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	G	G
Intron	INS	-	-
Intron	SNP	A	A
Intron	SNP	A	A
5'UTR	SNP	C	C
5'UTR	SNP	C	C
Intron	SNP	A	A

VEP annotated somatic variants

Silent	SNP	A	A
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	T	T
Silent	SNP	C	C
Silent	SNP	G	G
Intron	SNP	A	A
Missense_Mutation	SNP	A	A
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	A	A
Silent	SNP	C	C
Missense_Mutation	SNP	G	G
5'UTR	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Intron	DEL	AA	AA
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	A	A
Silent	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	G	G
5'UTR	SNP	C	C
Silent	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Missense_Mutation	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	INS	-	-
Intron	SNP	C	C
3'Flank	SNP	T	T
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
3'UTR	DEL	TCAC	TCAC
3'UTR	SNP	A	A
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C

VEP annotated somatic variants

Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	T	T
Splice_Region	SNP	T	T
Intron	SNP	G	G
Intron	DEL	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Silent	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	A	A
Intron	SNP	C	C
Splice_Region	SNP	C	C
Splice_Region	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	DEL	TATT	TATT
Silent	SNP	C	C
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	T	T
Silent	SNP	G	G
5'UTR	SNP	G	G
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Intron	SNP	T	T
5'UTR	SNP	A	A
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	T	T
Intron	INS	-	-
Intron	SNP	A	A
Intron	DEL	TCTC	TCTC
Intron	SNP	C	C

VEP annotated somatic variants

Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	C	C
Silent	SNP	C	C
Silent	SNP	G	G
Silent	SNP	G	G
Silent	SNP	A	A
Intron	SNP	C	C
Splice_Region	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Missense_Mutation	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	C	C
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
3'Flank	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	A	A
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	G	G
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	A	A
Silent	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	INS	-	-
Intron	INS	-	-
3'UTR	SNP	G	G
3'UTR	SNP	G	G
Intron	SNP	T	T
Silent	SNP	G	G
Intron	SNP	G	G

VEP annotated somatic variants

3'UTR	SNP	C	C
Intron	SNP	T	T
Intron	SNP	C	C
5'Flank	SNP	A	A
Intron	SNP	C	C
5'UTR	SNP	C	C
Intron	SNP	G	G
Silent	SNP	A	A
Missense_Mutation	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	A	A
Silent	SNP	A	A
3'UTR	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
5'Flank	SNP	C	C
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
RNA	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	G	G
Missense_Mutation	SNP	G	G
3'UTR	SNP	G	G
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	INS	-	-
Silent	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	A	A
Intron	INS	-	-
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	C	C
In_Frame_Del	DEL	GGTGGT	GGTGGT
Intron	SNP	C	C
Intron	SNP	C	C
Silent	SNP	C	C
Silent	SNP	T	T
Intron	SNP	G	G
3'UTR	SNP	T	T
Silent	SNP	T	T
Intron	SNP	C	C

VEP annotated somatic variants

Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	G	G
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	T	T
Splice_Region	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Intron	DEL	G	G
Intron	SNP	G	G
5'Flank	SNP	A	A
Intron	SNP	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	T	T
Missense_Mutation	SNP	G	G
Silent	SNP	T	T
Missense_Mutation	SNP	G	G
3'UTR	INS	-	-
5'UTR	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	G	G
Silent	SNP	C	C
Intron	SNP	A	A
Splice_Region	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	C	C
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Silent	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
5'UTR	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	A	A
Silent	SNP	C	C
Missense_Mutation	SNP	C	C
Silent	SNP	G	G
Silent	SNP	G	G

VEP annotated somatic variants

Splice_Region	SNP	T	T
Silent	SNP	G	G
Intron	SNP	A	A
Intron	DEL	CG	CG
Silent	SNP	G	G
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	G	G
5'UTR	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
5'Flank	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
5'UTR	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
3'UTR	SNP	G	G
Intron	SNP	G	G
3'UTR	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Silent	SNP	C	C
Missense_Mutation	SNP	T	T
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	C	C
Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	C	C
3'UTR	SNP	C	C
Intron	SNP	C	C



VEP annotated somatic variants

Silent	SNP	G	G
Intron	DEL	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Intron	DEL	TTT	TTT
Silent	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	C	C
Intron	INS	-	-
Silent	SNP	G	G
Splice_Region	SNP	G	G
Silent	SNP	T	T
Silent	SNP	T	T
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
3'UTR	SNP	A	A
Intron	SNP	G	G
Intron	SNP	A	A
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Splice_Region	SNP	T	T
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	T	T
Silent	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Splice_Region	SNP	T	T
Intron	DEL	GCCT	GCCT
Silent	SNP	C	C
Intron	DEL	GG	GG
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
3'UTR	SNP	C	C
3'UTR	SNP	A	A
3'UTR	SNP	G	G
Intron	SNP	A	A
Silent	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Intron	DEL	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Silent	SNP	G	G

VEP annotated somatic variants

Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	INS	-	-
Splice_Region	SNP	C	C
Silent	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	C	C
3'UTR	DEL	TT	TT
3'UTR	SNP	C	C
Intron	SNP	A	A
Silent	SNP	G	G
Silent	SNP	G	G
Silent	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
5'UTR	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Silent	SNP	T	T
Missense_Mutation	SNP	G	G
Silent	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	T	T
Intron	DEL	ACACACAC	ACACACAC
Silent	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	C	C
Intron	INS	-	-
Intron	SNP	C	C
Intron	DEL	CT	CT
Intron	SNP	A	A
Intron	SNP	T	T

VEP annotated somatic variants

Silent	SNP	T	T
Splice_Region	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Splice_Region	SNP	A	A
Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
3'UTR	SNP	T	T
3'UTR	SNP	T	T
3'UTR	SNP	T	T
Silent	SNP	A	A
Intron	SNP	C	C
Intron	DEL	C	C
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
5'UTR	SNP	C	C
Silent	SNP	A	A
5'UTR	SNP	G	G
Intron	INS	-	-
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	DEL	T	T
Silent	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	A	A
Missense_Mutation	SNP	C	C
3'UTR	SNP	A	A
Intron	SNP	T	T
Missense_Mutation	SNP	A	A
Missense_Mutation	SNP	G	G
3'UTR	SNP	A	A

VEP annotated somatic variants

Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
5'UTR	SNP	C	C
3'Flank	SNP	T	T
5'UTR	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	T	T
5'UTR	SNP	C	C
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	C	C
Silent	SNP	T	T
Missense_Mutation	SNP	A	A
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Silent	SNP	A	A
Intron	SNP	A	A
Intron	DEL	GGG	GGG
Intron	SNP	T	T
Splice_Region	SNP	T	T
5'UTR	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	C	C
5'UTR	SNP	T	T
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
3'UTR	INS	-	-
Intron	SNP	C	C
Silent	SNP	C	C
Intron	SNP	G	G
Silent	SNP	G	G
Intron	SNP	G	G
Silent	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	C	C

VEP annotated somatic variants

Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	T	T
Missense_Mutation	SNP	A	A
Missense_Mutation	SNP	T	T
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Splice_Region	SNP	C	C
Intron	DEL	TT	TT
Intron	SNP	C	C
Silent	SNP	C	C
Silent	SNP	A	A
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	DEL	TGTG	TGTG
Splice_Region	INS	-	-
Silent	SNP	T	T
5'UTR	SNP	G	G
Intron	SNP	G	G
Silent	SNP	T	T
Intron	SNP	G	G
Silent	SNP	A	A
Silent	SNP	G	G
Intron	DEL	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	T	T
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
5'UTR	SNP	A	A
Silent	SNP	C	C
Intron	SNP	A	A
Intron	SNP	C	C

VEP annotated somatic variants

Intron	SNP	T	T
Silent	SNP	C	C
5'Flank	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Missense_Mutation	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Silent	SNP	C	C
Silent	SNP	T	T
Intron	SNP	C	C
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	A	A
Silent	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Missense_Mutation	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Intron	DEL	TTTT	TTTT
Intron	SNP	T	T
Splice_Region	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
3'UTR	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	T	T
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	C	C
Silent	SNP	A	A
Missense_Mutation	SNP	T	T
Missense_Mutation	SNP	C	C

VEP annotated somatic variants

Intron	INS	-	-
5'UTR	SNP	C	C
5'Flank	DEL	AGAG	AGAG
Intron	SNP	C	C
Silent	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
3'Flank	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Silent	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
5'UTR	SNP	A	A
3'UTR	DEL	TTAAAG	TTAAAG
Intron	DEL	TCTAA	TCTAA
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	A	A
Silent	SNP	G	G
3'UTR	SNP	G	G
Intron	SNP	C	C
3'UTR	SNP	T	T
Missense_Mutation	SNP	C	C
Silent	SNP	G	G
Missense_Mutation	SNP	A	A
3'Flank	SNP	C	C
Silent	SNP	G	G
Silent	SNP	A	A
Missense_Mutation	SNP	T	T
Silent	SNP	C	C
Silent	SNP	G	G
5'UTR	SNP	A	A
Intron	SNP	C	C
Splice_Region	SNP	A	A
Silent	SNP	A	A
Intron	DEL	AA	AA
Intron	SNP	C	C
In_Frame_Ins	INS	-	-
Missense_Mutation	SNP	T	T
Silent	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	T	T

VEP annotated somatic variants

Missense_Mutation	SNP	C	C
Silent	SNP	C	C
Splice_Region	SNP	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
5'Flank	SNP	A	A
Silent	SNP	G	G
Silent	SNP	G	G
Intron	SNP	C	C
Silent	SNP	T	T
Splice_Region	SNP	T	T
Intron	SNP	A	A
Intron	SNP	A	A
3'Flank	SNP	A	A
3'Flank	DEL	T	T
Missense_Mutation	SNP	C	C
Intron	SNP	T	T
Silent	SNP	G	G
Silent	SNP	T	T
Missense_Mutation	SNP	G	G
3'UTR	SNP	A	A
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
5'UTR	SNP	A	A
Splice_Region	SNP	C	C
Intron	INS	-	-
Intron	DEL	T	T
Intron	SNP	C	C
Silent	SNP	C	C
3'UTR	SNP	A	A
Intron	SNP	T	T
Silent	SNP	A	A
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
Intron	SNP	C	C
Silent	SNP	C	C
Intron	SNP	A	A
Silent	SNP	G	G
RNA	SNP	G	G
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C



VEP annotated somatic variants

Intron	INS	-	-
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	T	T
Missense_Mutation	SNP	T	T
Silent	SNP	A	A
3'UTR	SNP	G	G
Silent	SNP	G	G
Silent	SNP	A	A
Silent	SNP	A	A
Intron	SNP	C	C
Intron	SNP	C	C
Splice_Region	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	INS	-	-
Intron	SNP	G	G
Intron	SNP	G	G
Intron	INS	-	-
Missense_Mutation	SNP	C	C
Intron	SNP	T	T
Silent	SNP	G	G
Intron	DEL	CC	CC
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Missense_Mutation	SNP	A	A
Missense_Mutation	SNP	C	C
Silent	SNP	C	C
Intron	SNP	T	T
In_Frame_Ins	INS	-	-
Intron	SNP	C	C
Intron	SNP	G	G
3'UTR	SNP	G	G
Intron	INS	-	-
Splice_Region	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	A	A
5'UTR	SNP	G	G
Intron	SNP	G	G
Intron	DEL	CTGGT	CTGGT
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	INS	-	-

VEP annotated somatic variants

Intron	DEL	AA	AA
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Splice_Region	SNP	A	A
Intron	SNP	G	G
5'UTR	SNP	A	A
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	T	T
Silent	SNP	G	G
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Intron	INS	-	-
Intron	SNP	T	T
5'UTR	SNP	T	T
Intron	SNP	C	C
Missense_Mutation	SNP	A	A
5'UTR	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Silent	SNP	G	G
Intron	INS	-	-
Intron	SNP	T	T
Silent	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	DEL	G	G
Missense_Mutation	SNP	C	C
Silent	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Silent	SNP	A	A
Intron	DEL	GCCTTC	GCCTTC
Intron	SNP	T	T
Nonsense_Mutation	INS	-	-
5'UTR	SNP	A	A
Silent	SNP	T	T
Intron	SNP	G	G
Intron	SNP	T	T
5'UTR	SNP	C	C
Splice_Region	SNP	T	T
5'UTR	SNP	G	G
Silent	SNP	C	C
Intron	INS	-	-
5'UTR	SNP	C	C
Intron	SNP	A	A
Silent	SNP	G	G

VEP annotated somatic variants

3'UTR	SNP	C	C
Intron	DEL	A	A
Intron	SNP	G	G
3'UTR	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
3'Flank	SNP	A	A
3'Flank	SNP	G	G
Intron	SNP	A	A
5'Flank	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
5'UTR	INS	-	-
5'UTR	INS	-	-
Silent	SNP	C	C
Silent	SNP	C	C
Intron	SNP	A	A
Intron	SNP	C	C
Silent	SNP	C	C
Intron	SNP	G	G
Silent	SNP	G	G
Silent	SNP	A	A
Intron	SNP	A	A
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
5'Flank	SNP	T	T
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
3'Flank	SNP	A	A
Intron	SNP	C	C
Missense_Mutation	SNP	A	A

VEP annotated somatic variants

Intron	SNP	A	A
5'Flank	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	G	G
Intron	DEL	GAC	GAC
Intron	SNP	A	A
Missense_Mutation	SNP	A	A
Intron	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	T	T
Silent	SNP	A	A
Intron	SNP	G	G
5'UTR	SNP	G	G
Intron	DEL	TT	TT
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
3'Flank	SNP	T	T
Silent	SNP	T	T
Intron	SNP	C	C
Splice_Region	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	C	C
Intron	INS	-	-
Intron	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	T	T
Intron	SNP	G	G
Intron	SNP	G	G
Silent	SNP	T	T
Intron	SNP	G	G
Silent	SNP	T	T
Intron	INS	-	-
Intron	SNP	C	C

VEP annotated somatic variants

Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Intron	DEL	C	C
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Silent	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
3'Flank	SNP	G	G
Intron	SNP	C	C
Silent	SNP	G	G
Silent	SNP	C	C
Intron	DEL	CGAAGAGTG	CGAAGAGTG
Intron	SNP	T	T
Intron	DEL	TT	TT
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	G	G
Splice_Region	SNP	C	C
Intron	SNP	C	C
Splice_Region	SNP	G	G
Silent	SNP	A	A
Silent	SNP	G	G
Silent	SNP	G	G
Intron	SNP	G	G
Intron	SNP	A	A
Missense_Mutation	SNP	A	A
Missense_Mutation	SNP	G	G
Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	C	C
RNA	SNP	G	G
Intron	SNP	C	C
RNA	SNP	T	T
Intron	DEL	G	G
3'UTR	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	DEL	C	C
Silent	SNP	T	T
Intron	DEL	C	C
Silent	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	DEL	C	C

VEP annotated somatic variants

Intron	SNP	A	A
Silent	SNP	T	T
5'UTR	SNP	C	C
3'Flank	SNP	C	C
Intron	DEL	ATAT	ATAT
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	G	G
Missense_Mutation	SNP	T	T
3'Flank	SNP	C	C
3'UTR	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	A	A
Silent	SNP	G	G
Intron	SNP	A	A
Silent	SNP	G	G
Intron	SNP	T	T
Silent	SNP	C	C
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	G	G
Silent	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	INS	-	-
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
3'UTR	SNP	C	C
Silent	SNP	C	C
Intron	DEL	AAACAAAC	AAACAAAC
Intron	SNP	C	C
Intron	SNP	A	A
Intron	INS	-	-
Intron	SNP	G	G
Intron	SNP	T	T
Splice_Site	SNP	G	G
Silent	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A

VEP annotated somatic variants

Missense_Mutation	SNP	G	G
Silent	SNP	A	A
Intron	SNP	G	G
Intron	DEL	C	C
Silent	SNP	T	T
3'UTR	SNP	T	T
Intron	DEL	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Silent	SNP	G	G
3'UTR	SNP	G	G
Intron	SNP	T	T
Intron	SNP	C	C
5'UTR	SNP	G	G
Silent	SNP	C	C
Intron	SNP	T	T
Intron	SNP	T	T
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Silent	SNP	G	G
Intron	DEL	T	T
5'UTR	SNP	G	G
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Intron	SNP	T	T
Intron	SNP	G	G
Intron	DEL	TAGGTTGACTATCA	TAGGTTGACTATCA
Silent	SNP	A	A
3'UTR	SNP	C	C
Intron	SNP	A	A
Silent	SNP	C	C
Silent	SNP	C	C
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	A	A
Silent	SNP	C	C
Intron	INS	-	-
Intron	SNP	A	A
Silent	SNP	T	T
Splice_Region	SNP	T	T
Intron	SNP	C	C
Intron	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	A	A
Splice_Region	SNP	A	A

VEP annotated somatic variants

Intron	INS	-	-
Silent	SNP	T	T
Missense_Mutation	SNP	C	C
Silent	SNP	T	T
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Intron	SNP	G	G
Missense_Mutation	SNP	A	A
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	C	C
Intron	SNP	A	A
Silent	SNP	G	G
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	G	G
5'UTR	SNP	T	T
Intron	SNP	T	T
Silent	SNP	A	A
Intron	SNP	T	T
Splice_Region	SNP	C	C
Silent	SNP	A	A
Intron	SNP	A	A
3'UTR	SNP	A	A
Intron	SNP	C	C
Silent	SNP	A	A
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	C	C
Silent	SNP	T	T
3'UTR	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
RNA	SNP	C	C
Intron	SNP	G	G
Splice_Region	SNP	T	T
Intron	SNP	C	C
Missense_Mutation	SNP	G	G
Splice_Region	SNP	C	C
Intron	SNP	T	T
Intron	SNP	C	C
IGR	SNP	G	G
Silent	SNP	G	G
Intron	SNP	C	C
Missense_Mutation	SNP	C	C
Silent	SNP	T	T



VEP annotated somatic variants

Nonsense_Mutation	INS	-	-
Silent	SNP	G	G
Intron	SNP	A	A
Intron	SNP	A	A
3'UTR	INS	-	-
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	A	A
Intron	SNP	G	G
Missense_Mutation	SNP	C	C
Intron	SNP	C	C
Silent	SNP	C	C
3'Flank	DEL	C	C
Intron	SNP	A	A
Missense_Mutation	SNP	T	T
Intron	SNP	A	A
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	C	C
Silent	SNP	G	G
Intron	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	T	T
In_Frame_Del	DEL	:CTCCTCCTCCTCCCTT;	:CTCCTCCTCCTCCCTT.
Intron	SNP	G	G
Intron	SNP	G	G
Missense_Mutation	SNP	G	G
Silent	SNP	A	A
Missense_Mutation	SNP	G	G
Intron	SNP	A	A
Intron	SNP	C	C
Intron	SNP	G	G
Silent	SNP	C	C
Intron	SNP	A	A
3'UTR	SNP	G	G
Intron	SNP	G	G
Intron	SNP	G	G
Splice_Region	SNP	A	A
Silent	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Silent	SNP	T	T
Silent	SNP	C	C
Intron	SNP	T	T
Intron	SNP	C	C
Intron	SNP	A	A
5'UTR	SNP	G	G
Intron	SNP	C	C
Intron	SNP	C	C

VEP annotated somatic variants

Silent	SNP	C	C
Missense_Mutation	SNP	A	A
Silent	SNP	G	G
Intron	SNP	C	C
Intron	SNP	T	T
Missense_Mutation	SNP	A	A
Intron	SNP	A	A
3'UTR	SNP	A	A
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Intron	SNP	G	G
Splice_Region	SNP	C	C
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Intron	SNP	G	G
Intron	SNP	A	A
Intron	SNP	G	G
Silent	SNP	T	T
Intron	SNP	T	T
Intron	SNP	A	A
Intron	SNP	T	T
Intron	SNP	T	T
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	G	G
Missense_Mutation	SNP	G	G
5'UTR	INS	-	-
Missense_Mutation	SNP	C	C
Silent	SNP	G	G
Missense_Mutation	SNP	T	T
Intron	SNP	C	C
Silent	SNP	C	C
Missense_Mutation	SNP	A	A
Silent	SNP	C	C
Silent	SNP	C	C
Missense_Mutation	SNP	C	C
Intron	SNP	T	T
Intron	SNP	G	G
Intron	SNP	C	C

VEP annotated somatic variants

Tumor_Seq_Allele2	dbSNP_RS	dbSNP_Val_Status	Tumor_Sample_Barcode
AA	novel		TUMOR
C	rs10978447		TUMOR
C	rs279677		TUMOR
G	rs11077414		TUMOR
T	novel		TUMOR
G	rs2041171		TUMOR
G	rs2364315		TUMOR
G	rs6501947		TUMOR
A	rs554012320		TUMOR
-	rs55685226		TUMOR
T	rs1799859		TUMOR
GAGCGGGCGA	rs150746310		TUMOR
A	rs12600864		TUMOR
C	rs740250		TUMOR
T	rs144177905		TUMOR
A	novel		TUMOR
G	rs1251075		TUMOR
T	rs41291346		TUMOR
C	rs41303309		TUMOR
A	rs747166030		TUMOR
A	rs11039146		TUMOR
A	rs13087169		TUMOR
A	rs12915634		TUMOR
T	rs61729367		TUMOR
T	rs7485573		TUMOR
A	novel		TUMOR
T	rs41264285		TUMOR
ATAA	rs35431407		TUMOR
A	rs12774070		TUMOR
G	rs2251105		TUMOR
-			TUMOR
T	rs3813622		TUMOR
G	rs75553188		TUMOR
G	rs56778727		TUMOR
-	rs67418568		TUMOR
G	rs41282522		TUMOR
C	rs621375		TUMOR
C	rs342467		TUMOR
A	rs34463921		TUMOR
G	rs200527701		TUMOR
C	rs12671813		TUMOR
T	rs5182		TUMOR
C	rs13218824		TUMOR
A	rs8050390		TUMOR
C	rs7774011		TUMOR
T	rs7517559		TUMOR
T	rs72649360		TUMOR
T	rs62619924		TUMOR
T	rs878081		TUMOR
C	rs1003854		TUMOR
T	rs733957		TUMOR
G	rs17164315		TUMOR
T	rs369069231,rs4732036		TUMOR
A	novel		TUMOR

VEP annotated somatic variants

A	rs62128062	TUMOR
A	rs4646686	TUMOR
T	rs1051713	TUMOR
C	rs55736017	TUMOR
T	rs2289140	TUMOR
C	rs1626649	TUMOR
G	rs1793173	TUMOR
T	rs56780932	TUMOR
G	rs2304872	TUMOR
-	rs3067424	TUMOR
A	rs4938014	TUMOR
A	rs35235926	TUMOR
C	rs7853994	TUMOR
C	rs7096505	TUMOR
G	rs7630642	TUMOR
A	rs11578772	TUMOR
T	rs871130	TUMOR
T	rs115250350	TUMOR
A	novel	TUMOR
T	novel	TUMOR
C	rs2301587	TUMOR
C	rs140072315	TUMOR
T	rs755049876	TUMOR
A	novel	TUMOR
T	rs74869251	TUMOR
T	novel	TUMOR
G	rs71428454	TUMOR
G	rs71428453	TUMOR
G	rs455671	TUMOR
T	rs17138632	TUMOR
-	novel	TUMOR
G	rs2276932	TUMOR
G	rs793524	TUMOR
C	rs10521763	TUMOR
T	rs62620965	TUMOR
T	rs16837847	TUMOR
A	rs7550948	TUMOR
G	rs74404550	TUMOR
C	rs3772219	TUMOR
C	rs2296354	TUMOR
G	rs10972173	TUMOR
A	rs12359433	TUMOR
T	rs6778511	TUMOR
T	rs963618	TUMOR
G	rs5951332	TUMOR
A	rs2361298	TUMOR
T	rs3174476	TUMOR
G	rs28365160	TUMOR
A	rs2305738	TUMOR
A	rs28597966	TUMOR
A	rs6151415	TUMOR
G	novel	TUMOR
T	rs2257090	TUMOR
G	rs62251997	TUMOR
-	rs143019035	TUMOR

VEP annotated somatic variants

T	novel	TUMOR
A	rs1872858	TUMOR
T	rs9895872	TUMOR
A	rs1168966	TUMOR
G	rs749457	TUMOR
C	rs11790014	TUMOR
A	rs8086318	TUMOR
T	novel	TUMOR
G	rs12125325	TUMOR
C	rs45570436	TUMOR
A	rs36048052	TUMOR
A	rs56290406	TUMOR
T	rs17846715	TUMOR
G	rs12131640	TUMOR
G	rs1891	TUMOR
T	rs2853759	TUMOR
A	rs113968994	TUMOR
A	novel	TUMOR
A	rs6021355	TUMOR
A	rs3827032	TUMOR
G	rs6442124	TUMOR
T	rs35725751	TUMOR
T	rs1152194	TUMOR
G	rs2281933	TUMOR
C	rs11577579	TUMOR
C	rs11374767	TUMOR
A	rs36686	TUMOR
T	rs7210438	TUMOR
A	novel	TUMOR
A	rs309370	TUMOR
G	rs45500792	TUMOR
C	rs73137012	TUMOR
T	rs12388749	TUMOR
T	rs741886	TUMOR
A	rs754125003	TUMOR
A	rs34233512	TUMOR
G	rs41308602	TUMOR
G	rs536159058	TUMOR
A	rs62207506	TUMOR
T	rs193243275	TUMOR
T	rs3092994	TUMOR
T	rs8176235	TUMOR
C	rs273900734	TUMOR
T	rs2126042	TUMOR
T	rs13153992	TUMOR
A	rs2836972	TUMOR
G	rs2273376	TUMOR
C	rs2283569	TUMOR
T	rs28992474	TUMOR
T	rs11200559	TUMOR
A	rs986178	TUMOR
A	novel	TUMOR
T	novel	TUMOR
T	rs6601166	TUMOR
G	rs11652816	TUMOR

VEP annotated somatic variants

TTGTAGACCATGACTTT	novel	TUMOR
C	rs12411843	TUMOR
A	rs7079392	TUMOR
A	rs3740694	TUMOR
C	rs10507274	TUMOR
T	rs2111146	TUMOR
-	rs139293175	TUMOR
-	rs112580616	TUMOR
A	rs2302315	TUMOR
C	rs730228	TUMOR
C	rs8110590	TUMOR
C	rs2304176	TUMOR
T	rs17261572	TUMOR
G	rs10927267	TUMOR
-	rs148512971	TUMOR
C	rs6688703	TUMOR
C	rs41289218	TUMOR
C	rs11077410	TUMOR
C	rs761967500	TUMOR
A	novel	TUMOR
T	rs366510	TUMOR
A	novel	TUMOR
G	rs41260544	TUMOR
C	rs2269067	TUMOR
C	rs665728	TUMOR
T	rs139255231	TUMOR
G	rs2286634	TUMOR
A	rs149154082	TUMOR
T	rs62231971	TUMOR
-	novel	TUMOR
C	rs7034745	TUMOR
T	rs77802779	TUMOR
A	novel	TUMOR
G	rs2239801	TUMOR
C	rs11014511	TUMOR
C	rs187651793	TUMOR
T	rs7797991	TUMOR
A	novel	TUMOR
A	rs41291299	TUMOR
A	rs734348	TUMOR
T	rs343989	TUMOR
T	rs62113420	TUMOR
T	rs6925778	TUMOR
T	rs2493145	TUMOR
T	rs181863983	TUMOR
C	rs738304	TUMOR
A	rs2304134	TUMOR
T	rs11574685	TUMOR
C	rs3747622	TUMOR
A	novel	TUMOR
G	rs8106895	TUMOR
T	rs1974763	TUMOR
T	rs74901418	TUMOR
-	rs11280083	TUMOR
A	rs35352238	TUMOR

VEP annotated somatic variants

A	rs920791	TUMOR
A	novel	TUMOR
G	rs144266211	TUMOR
C	rs74002500	TUMOR
G	rs146524252	TUMOR
A	novel	TUMOR
T	rs3762117	TUMOR
A	rs670650	TUMOR
A	rs11653797	TUMOR
T	novel	TUMOR
A	rs11234627	TUMOR
T	rs3136658	TUMOR
A	rs3092960	TUMOR
G	rs2351528	TUMOR
-	rs200703227,rs58161637	TUMOR
G	rs11265493	TUMOR
-	rs55682471	TUMOR
C	rs735482	TUMOR
G	rs4844390	TUMOR
-	rs779696544	TUMOR
A	rs545464360	TUMOR
C	rs561895	TUMOR
T	rs2073760	TUMOR
C	rs3749191	TUMOR
T	rs368295466	TUMOR
C	rs2272211	TUMOR
A	rs2069529	TUMOR
T	novel	TUMOR
G	rs56087852	TUMOR
A	rs762173324	TUMOR
A	rs13043456	TUMOR
A	rs1265045	TUMOR
G	rs2302399	TUMOR
A	rs143775364	TUMOR
AAG	rs5828129	TUMOR
T	rs2231496	TUMOR
C	rs2300687	TUMOR
A	rs5747211	TUMOR
C	rs2244682	TUMOR
C	rs75243280	TUMOR
-	rs56066672,rs68186132	TUMOR
T	rs41285260	TUMOR
T	rs117156562	TUMOR
A	novel	TUMOR
C	rs62269547	TUMOR
T	rs6766818	TUMOR
T	rs1673607	TUMOR
T	novel	TUMOR
G	rs2270202	TUMOR
A	novel	TUMOR
T	rs1061170	TUMOR
A	rs1800136	TUMOR
C	rs111775228	TUMOR
C	rs1890042	TUMOR
A	rs2291254	TUMOR

VEP annotated somatic variants

C	rs12832244	TUMOR
T	rs11556868	TUMOR
C	rs2302764	TUMOR
A	rs582736	TUMOR
T	rs4781019	TUMOR
A	rs7012	TUMOR
T	rs278126	TUMOR
C	rs3012627	TUMOR
C	rs34054011	TUMOR
A	novel	TUMOR
A	rs34398185	TUMOR
T	novel	TUMOR
C	rs11834597	TUMOR
G	rs559165	TUMOR
T	novel	TUMOR
T	rs3817012	TUMOR
A	rs2305450	TUMOR
C	novel	TUMOR
A	rs3829211	TUMOR
A	rs11540994	TUMOR
G	rs1660694	TUMOR
T	rs1049353	TUMOR
A	rs13068264	TUMOR
C	rs3779032	TUMOR
G	rs3779031	TUMOR
G	rs72760251	TUMOR
T	rs1129262	TUMOR
G	rs2303793	TUMOR
G	rs62482495	TUMOR
AAATGGAGACAATGTTG	novel	TUMOR
A	rs2973747	TUMOR
C	rs7538391	TUMOR
A	rs17128726	TUMOR
A	rs17393069	TUMOR
C	rs2295915	TUMOR
T	novel	TUMOR
C	rs2839077	TUMOR
-	novel	TUMOR
G	rs4818	TUMOR
G	rs10927335	TUMOR
C	novel	TUMOR
T	rs117188117	TUMOR
A	rs1564823	TUMOR
G	rs17618	TUMOR
A	rs10760282	TUMOR
G	rs8192494	TUMOR
A	rs181484126	TUMOR
A	rs3821157	TUMOR
T	rs488132	TUMOR
TTGGGCATTGTCTGT	novel	TUMOR
T	rs147910113	TUMOR
C	rs1506441	TUMOR
T	rs974572	TUMOR
A	rs2515838	TUMOR
T	novel	TUMOR



VEP annotated somatic variants

G	rs62027240	TUMOR
A	rs11699220	TUMOR
T	rs4502229	TUMOR
C	rs3750863	TUMOR
T	rs2297581	TUMOR
A	rs41289311	TUMOR
G	rs12248333	TUMOR
G	rs41274912	TUMOR
G	rs10231075	TUMOR
A	rs782154947	TUMOR
T	rs2304858	TUMOR
T	rs6433817	TUMOR
A	rs659040	TUMOR
T	novel	TUMOR
A	novel	TUMOR
A	rs35206429	TUMOR
G	rs1709082	TUMOR
T	rs1709081	TUMOR
-	novel	TUMOR
T	rs16995376	TUMOR
A	rs4729021	TUMOR
A	rs198430	TUMOR
C	rs687670	TUMOR
G	rs2622733	TUMOR
C	rs1056142	TUMOR
C	rs10409785	TUMOR
A	rs55681834	TUMOR
G	rs1431196	TUMOR
A	rs9467075	TUMOR
G	novel	TUMOR
G	rs4742	TUMOR
C	rs531346334	TUMOR
C	rs41313157	TUMOR
T	rs17416794	TUMOR
C	rs10739633	TUMOR
G	rs952374	TUMOR
C	rs9942410	TUMOR
A	rs5993488	TUMOR
A	rs374861176	TUMOR
T	rs2275874	TUMOR
TG	rs146907010	TUMOR
T	rs4072887	TUMOR
C	rs9915640	TUMOR
G	rs55956367	TUMOR
A	rs2271958	TUMOR
C	rs72792311	TUMOR
A	novel	TUMOR
-	rs3082917	TUMOR
G	rs3082	TUMOR
T	rs11588937	TUMOR
A	rs10096210	TUMOR
G	rs17146082	TUMOR
G	rs2281868	TUMOR
T	rs778081516,rs41274582	TUMOR
T	rs72857275	TUMOR

VEP annotated somatic variants

T	rs11084816	TUMOR
G	rs12221039	TUMOR
C	novel	TUMOR
G	rs4234394	TUMOR
T	rs12034925	TUMOR
G	rs12042900	TUMOR
G	rs1995482	TUMOR
G	rs79984676	TUMOR
G	rs41304141	TUMOR
T	rs12951733	TUMOR
C	novel	TUMOR
C	rs12948962	TUMOR
C	rs41267309	TUMOR
A	rs41298531	TUMOR
-	novel	TUMOR
G	rs6884561	TUMOR
T	rs2306431	TUMOR
A	rs2286329	TUMOR
C	rs1126464	TUMOR
C	rs2304175	TUMOR
G	novel	TUMOR
T	rs61935050	TUMOR
A	rs76390929	TUMOR
T	rs3213505	TUMOR
C	rs3747280	TUMOR
A	rs5967281	TUMOR
A	rs2276343	TUMOR
-	rs140490580	TUMOR
A	rs7234288	TUMOR
T	rs36101975	TUMOR
T	rs56148603	TUMOR
G	novel	TUMOR
A	rs34278949	TUMOR
C	rs369225897	TUMOR
C	rs191289705	TUMOR
A	rs4236506	TUMOR
C	rs1005887	TUMOR
C	rs770087	TUMOR
A	rs62467724	TUMOR
C	rs313407	TUMOR
G	rs1782383	TUMOR
T	rs782358140	TUMOR
A	rs1076669	TUMOR
G	rs6750085	TUMOR
A	rs35443668	TUMOR
T	rs1919691	TUMOR
A	novel	TUMOR
T	rs2070699	TUMOR
T	novel	TUMOR
T	rs61933720	TUMOR
C	rs310618	TUMOR
GGGGTGGGAATCACC	novel	TUMOR
G	rs56380058	TUMOR
-	rs111797029	TUMOR
A	rs10848906	TUMOR

VEP annotated somatic variants

T	rs17180771	TUMOR
T	rs188362092	TUMOR
G	rs771999554,rs2120276	TUMOR
T	rs36018672	TUMOR
T	rs2181440	TUMOR
A	rs2071857	TUMOR
T	rs8142615	TUMOR
G	rs7292751	TUMOR
T	rs2239691	TUMOR
A	novel	TUMOR
G	rs709683	TUMOR
T	rs2252767	TUMOR
G	rs1871685	TUMOR
C	rs2250718	TUMOR
C	rs2273707	TUMOR
G	rs2273706	TUMOR
T	rs79126103	TUMOR
G	rs10760503	TUMOR
T	novel	TUMOR
C	rs3176889	TUMOR
T	rs145747095	TUMOR
A	rs377295148	TUMOR
A	rs6971720	TUMOR
G	rs2234922	TUMOR
T	rs13439459	TUMOR
A	rs16947425	TUMOR
G	rs2272313	TUMOR
A	rs10935282	TUMOR
A	rs1801591	TUMOR
A	rs1130426	TUMOR
T	rs3810381	TUMOR
T	rs41286811	TUMOR
T	rs2307003	TUMOR
T	rs12975442	TUMOR
T	rs79643517	TUMOR
T	rs1076871	TUMOR
A	novel	TUMOR
A	rs1047840	TUMOR
T	novel	TUMOR
C	rs56194802	TUMOR
C	rs1800291	TUMOR
T	rs7058826	TUMOR
A	rs137852271	TUMOR
A	rs4030473	TUMOR
G	rs174589	TUMOR
G	rs174453	TUMOR
G	rs733679	TUMOR
A	rs6007594	TUMOR
CG	novel	TUMOR
CCTAGATGCAGGAG	novel	TUMOR
C	rs2475853	TUMOR
T	rs62599865	TUMOR
C	rs61703386	TUMOR
A	rs41305290	TUMOR
A	rs1939383	TUMOR

VEP annotated somatic variants

T	rs3780	TUMOR
G	rs3733577	TUMOR
A	novel	TUMOR
G	rs916668	TUMOR
A	rs2075566	TUMOR
G	rs10793625	TUMOR
A	rs771204	TUMOR
G	rs9358802	TUMOR
T	rs11555275	TUMOR
A	novel	TUMOR
G	rs7757405	TUMOR
G	rs3800377	TUMOR
C	rs4713867	TUMOR
C	rs1052583	TUMOR
C	rs16843671	TUMOR
T	rs2240482	TUMOR
A	rs41283365	TUMOR
A	rs17848937	TUMOR
A	rs17848935	TUMOR
T	rs1127678	TUMOR
T	rs190206480	TUMOR
C	rs34167077	TUMOR
A	rs4883569	TUMOR
A	rs2066913	TUMOR
A	rs10973387	TUMOR
G	rs28401636	TUMOR
A	rs553196851	TUMOR
T	rs7630741	TUMOR
T	novel	TUMOR
T	rs11119925	TUMOR
A	rs2287854	TUMOR
A	rs351855	TUMOR
A	rs1049636	TUMOR
C	rs1893433	TUMOR
T	rs3744903	TUMOR
T	rs1893434	TUMOR
T	rs774914442,rs2231901	TUMOR
CCTTTTAAACAACCAG	novel	TUMOR
A	rs56301507	TUMOR
A	rs6704545	TUMOR
A	rs36051194	TUMOR
G	rs2177153	TUMOR
GGTTACCCTA	rs3214903	TUMOR
C	rs12122068	TUMOR
A	rs6686353	TUMOR
T	rs1800822	TUMOR
-	rs67450550	TUMOR
T	rs7929014	TUMOR
T	rs294883	TUMOR
G	rs381639	TUMOR
C	rs2293783	TUMOR
A	rs4714489	TUMOR
C	rs10106	TUMOR
C	rs345514	TUMOR
G	rs35583270	TUMOR

VEP annotated somatic variants

T	rs11098194	TUMOR
A	rs17457087	TUMOR
T	rs34505482	TUMOR
T	rs1545437	TUMOR
T	rs74123100	TUMOR
A	novel	TUMOR
A	rs57337277	TUMOR
T	rs117877479	TUMOR
A	rs838137	TUMOR
C	rs9807877	TUMOR
C	rs529623	TUMOR
C	rs1994490	TUMOR
A	rs7617829	TUMOR
T	rs1564281	TUMOR
-	rs3830208	TUMOR
A	rs12432149	TUMOR
G	rs76999174	TUMOR
T	rs76743658	TUMOR
G	rs4958733	TUMOR
T	rs2288101	TUMOR
G	rs10849133	TUMOR
T	rs1468556	TUMOR
C	rs16962977	TUMOR
A	rs16962974	TUMOR
T	rs35950532	TUMOR
C	novel	TUMOR
A	rs3806338	TUMOR
T	rs76346754	TUMOR
A	rs61729628	TUMOR
T	rs5384	TUMOR
G	rs71548508	TUMOR
G	rs17057536	TUMOR
G	rs2293	TUMOR
C	rs9971293	TUMOR
G	rs10136536	TUMOR
G	rs181881694	TUMOR
T	rs1254898	TUMOR
G	rs11083455	TUMOR
A	rs56854837	TUMOR
A	rs79309130	TUMOR
A	rs147513433	TUMOR
A	rs6076347	TUMOR
A	rs2303275	TUMOR
A	rs2303278	TUMOR
T	rs764963799	TUMOR
A	rs1049346	TUMOR
C	rs4907817	TUMOR
G	rs12844618	TUMOR
A	rs79806135	TUMOR
C	rs11229655	TUMOR
T	rs4852349	TUMOR
T	rs1805058	TUMOR
T	rs5748449	TUMOR
A	rs4986942	TUMOR
A	rs12823938	TUMOR

VEP annotated somatic variants

C	rs2243093	TUMOR
A	rs2274020	TUMOR
G	rs2793442	TUMOR
-	novel	TUMOR
T	novel	TUMOR
A	rs1190736	TUMOR
C	rs4838684	TUMOR
T	rs147825070	TUMOR
A	rs11101914	TUMOR
A	rs12219529	TUMOR
G	rs77245879	TUMOR
C	rs10893053	TUMOR
A	rs62265406	TUMOR
A	rs2748338	TUMOR
T	rs34212133	TUMOR
A	rs116870369	TUMOR
A	novel	TUMOR
T	rs3828595	TUMOR
A	rs4475186	TUMOR
A	rs41312596	TUMOR
T	rs7614915	TUMOR
C	rs34108640	TUMOR
T	rs76463933	TUMOR
T	rs974285	TUMOR
T	rs757687772,rs1871042	TUMOR
T	rs72681249	TUMOR
T	rs12356612	TUMOR
T	rs41260144	TUMOR
A	rs616218	TUMOR
A	rs1052278	TUMOR
C	rs17676826	TUMOR
T	novel	TUMOR
C	rs34922454	TUMOR
C	rs6580637	TUMOR
T	novel	TUMOR
A	rs2243388	TUMOR
T	rs2379206	TUMOR
A	rs56351858	TUMOR
A	rs16833972	TUMOR
T	rs3738541	TUMOR
C	rs4720951	TUMOR
A	novel	TUMOR
A	novel	TUMOR
C	rs12220588	TUMOR
C	rs10882474	TUMOR
T	rs2232253	TUMOR
A	novel	TUMOR
G	rs1799945	TUMOR
T	rs148714837	TUMOR
C	rs74648342	TUMOR
A	rs12436072	TUMOR
T	rs12164	TUMOR
A	novel	TUMOR
T	rs16891397	TUMOR
T	rs77463023	TUMOR

VEP annotated somatic variants

A	rs3752419	TUMOR
-	rs775476188	TUMOR
A	rs14362	TUMOR
T	rs2073420	TUMOR
-	rs546127026	TUMOR
T	rs1131488	TUMOR
A	rs2272790	TUMOR
T	rs1053593	TUMOR
A	rs2071190	TUMOR
A	rs77856552	TUMOR
T	rs35337531	TUMOR
C	rs3830343	TUMOR
A	rs3737243	TUMOR
T	novel	TUMOR
A	rs6320	TUMOR
C	rs6638360	TUMOR
T	rs200650762	TUMOR
T	rs11558819	TUMOR
T	novel	TUMOR
G	rs1048710	TUMOR
C	rs540557518	TUMOR
G	rs12904700	TUMOR
C	rs866484	TUMOR
G	rs1051393	TUMOR
G	rs33982004	TUMOR
G	rs609207	TUMOR
A	rs2297370	TUMOR
A	rs2274849	TUMOR
T	rs34297802	TUMOR
C	rs1128617	TUMOR
G	rs4830219	TUMOR
A	novel	TUMOR
A	rs6782002	TUMOR
A	rs36052974	TUMOR
G	rs9848979	TUMOR
C	rs61886896	TUMOR
-	rs139927942	TUMOR
G	rs1063110	TUMOR
-	rs35444385,rs57179462	TUMOR
T	rs146644651	TUMOR
T	rs41268137	TUMOR
T	rs12722600	TUMOR
C	rs143249661	TUMOR
A	rs3842752	TUMOR
G	rs3741211	TUMOR
T	rs2059806	TUMOR
G	rs2860177	TUMOR
A	rs11761394	TUMOR
A	novel	TUMOR
A	novel	TUMOR
G	rs3797390	TUMOR
-	rs768211373	TUMOR
A	rs2291919	TUMOR
A	rs75282194	TUMOR
C	rs34051422	TUMOR

VEP annotated somatic variants

G	rs1109216	TUMOR
C	rs2274617	TUMOR
C	rs2305586	TUMOR
A	rs3821909	TUMOR
C	rs2239547	TUMOR
T	rs2276817	TUMOR
C	rs2240917	TUMOR
G	rs1751134	TUMOR
C	rs41307668	TUMOR
T	rs7957289	TUMOR
GAAGCTG	novel	TUMOR
A	rs78399616	TUMOR
A	rs34043167	TUMOR
A	rs2298681	TUMOR
C	rs2073366	TUMOR
T	rs11098988	TUMOR
A	rs5952987	TUMOR
G	rs9419380	TUMOR
A	rs13214720	TUMOR
G	rs2076056	TUMOR
T	rs742099	TUMOR
-	rs10545425	TUMOR
T	rs17369029	TUMOR
G	rs41289438	TUMOR
A	rs17855078	TUMOR
A	rs10889315	TUMOR
T	rs9800580	TUMOR
C	rs1611775	TUMOR
A	novel	TUMOR
T	rs16885430	TUMOR
T	rs12706859	TUMOR
C	rs80095910	TUMOR
A	rs9534059	TUMOR
A	rs41300795	TUMOR
A	novel	TUMOR
T	rs141093070	TUMOR
T	novel	TUMOR
A	rs2230018	TUMOR
G	rs59225858	TUMOR
G	rs1062277	TUMOR
T	rs6950119	TUMOR
A	rs11913944	TUMOR
A	rs68107102	TUMOR
G	rs7764091	TUMOR
-	rs147073742	TUMOR
A	rs138496842	TUMOR
A	rs757731918	TUMOR
A	rs114902761	TUMOR
A	rs12046928	TUMOR
T	rs72852205	TUMOR
TTAATCATGGGCCTCC	novel	TUMOR
A	novel	TUMOR
-	novel	TUMOR
T	rs16862956	TUMOR
C	rs3736968	TUMOR



VEP annotated somatic variants

G	rs11552577	TUMOR
G	rs202185247	TUMOR
A	novel	TUMOR
A	novel	TUMOR
C	rs149140699	TUMOR
A	rs9418941	TUMOR
G	rs7307735	TUMOR
T	rs10953283	TUMOR
A	rs190427523	TUMOR
T	rs34946378	TUMOR
T	rs543603727	TUMOR
C	rs2604958	TUMOR
A	rs2071602	TUMOR
C	rs463217	TUMOR
C	rs9306112	TUMOR
G	rs9984726	TUMOR
T	rs73176644	TUMOR
-	rs3841288	TUMOR
G	rs74936600	TUMOR
A	rs9374309	TUMOR
T	rs6908219	TUMOR
A	rs2296300	TUMOR
C	rs6672093	TUMOR
A	rs2296299	TUMOR
A	rs684527	TUMOR
G	rs3798761	TUMOR
T	novel	TUMOR
(GGTGCAGGTGACCTG(	novel	TUMOR
A	rs6695528	TUMOR
A	rs11610822	TUMOR
A	rs893239	TUMOR
T	rs36068997	TUMOR
A	rs575867042	TUMOR
T	rs7258841	TUMOR
T	novel	TUMOR
A	rs7334674	TUMOR
A	novel	TUMOR
-	novel	TUMOR
C	rs3813933	TUMOR
G	rs182548747	TUMOR
C	rs750695318,rs2304720	TUMOR
G	rs9877192	TUMOR
C	rs10771166	TUMOR
A	rs13387241	TUMOR
T	rs2242339	TUMOR
A	rs138879160	TUMOR
A	rs139839409	TUMOR
A	rs1741547	TUMOR
T	rs2354444	TUMOR
A	rs7094610	TUMOR
G	rs78140568	TUMOR
A	novel	TUMOR
G	rs34423045	TUMOR
A	rs36006556	TUMOR
G	rs7745	TUMOR

VEP annotated somatic variants

T	rs2839146	TUMOR
A	rs2274800	TUMOR
C	rs75340045	TUMOR
T	rs4130852	TUMOR
G	rs41308397	TUMOR
G	rs807023	TUMOR
T	rs752974	TUMOR
C	rs73048940	TUMOR
C	rs2908989	TUMOR
C	rs2070945	TUMOR
C	rs2233055	TUMOR
T	rs770941569	TUMOR
C	rs5953637	TUMOR
T	rs3765272	TUMOR
A	novel	TUMOR
A	novel	TUMOR
T	rs113311895	TUMOR
G	rs2142887	TUMOR
A	rs6894260	TUMOR
C	rs2301796	TUMOR
T	novel	TUMOR
T	rs5909299	TUMOR
T	rs74430817	TUMOR
C	rs56072295	TUMOR
G	rs55715763	TUMOR
-	rs72288687	TUMOR
C	rs2290689	TUMOR
C	rs1078264	TUMOR
G	rs4502771	TUMOR
T	rs2072788	TUMOR
G	rs2270969	TUMOR
A	rs2250213	TUMOR
T	rs13204070	TUMOR
T	novel	TUMOR
T	novel	TUMOR
A	rs61751446	TUMOR
T	novel	TUMOR
C	rs616836	TUMOR
C	rs3745480	TUMOR
C	rs147500056	TUMOR
A	novel	TUMOR
C	rs368622121	TUMOR
G	rs673408	TUMOR
T	rs147500027	TUMOR
T	rs1263792	TUMOR
T	rs13023973	TUMOR
A	rs878493	TUMOR
A	rs8081793	TUMOR
A	rs8067585	TUMOR
T	rs79286496	TUMOR
T	rs12917	TUMOR
A	rs3213927	TUMOR
A	rs2289718	TUMOR
G	rs3747032	TUMOR
T	rs73492943	TUMOR

VEP annotated somatic variants

C	rs142531662	TUMOR
C	rs2302320	TUMOR
T	rs7964786	TUMOR
G	rs10489691	TUMOR
T	rs2227261	TUMOR
A	rs7922546	TUMOR
G	rs77813062	TUMOR
G	rs141042584	TUMOR
T	rs12012022	TUMOR
A	rs6622126	TUMOR
T	rs6495341	TUMOR
A	rs1793141	TUMOR
T	rs496797	TUMOR
G	rs1655519	TUMOR
G	rs570218	TUMOR
C	rs480963	TUMOR
G	rs3809869	TUMOR
A	novel	TUMOR
A	rs181211282	TUMOR
T	rs34547023	TUMOR
T	rs11042902	TUMOR
-	novel	TUMOR
T	rs12501541	TUMOR
T	rs11121691	TUMOR
G	rs2229276	TUMOR
T	rs3820571	TUMOR
G	rs3820568	TUMOR
A	rs2297965	TUMOR
-	rs34883891	TUMOR
GGGAGA	rs111427194	TUMOR
C	rs1609459	TUMOR
C	rs10878538	TUMOR
A	rs3751175	TUMOR
C	rs7480563	TUMOR
A	rs12935454	TUMOR
G	rs1635235	TUMOR
A	rs4796854	TUMOR
-	rs11570050,rs181840234	TUMOR
T	rs16967494	TUMOR
C	rs3957557	TUMOR
T	rs735711	TUMOR
T	novel	TUMOR
C	rs7159367	TUMOR
T	rs772285227	TUMOR
A	rs40305	TUMOR
T	novel	TUMOR
C	rs2072012	TUMOR
T	rs72818342	TUMOR
C	rs10408143	TUMOR
T	novel	TUMOR
C	rs56397652	TUMOR
G	rs4950877	TUMOR
T	rs145701607	TUMOR
C	rs174536	TUMOR
G	novel	TUMOR

VEP annotated somatic variants

A	novel	TUMOR
T	rs2275107	TUMOR
A	novel	TUMOR
T	rs11670727	TUMOR
G	rs878907	TUMOR
T	rs1318102	TUMOR
G	rs8482	TUMOR
T	rs35995789	TUMOR
C	rs11657883	TUMOR
A	rs11653231	TUMOR
T	rs2228603	TUMOR
T	rs73044244	TUMOR
T	rs375430154	TUMOR
A	rs114443303	TUMOR
A	rs6087625	TUMOR
A	rs1079533	TUMOR
T	rs1136207	TUMOR
A	novel	TUMOR
C	rs6433569	TUMOR
C	rs4300824	TUMOR
T	rs2234570	TUMOR
C	rs4804	TUMOR
G	rs2275712	TUMOR
C	rs201763096	TUMOR
T	rs4648073	TUMOR
A	novel	TUMOR
G	rs587555	TUMOR
G	rs115931931	TUMOR
G	rs10457670	TUMOR
T	novel	TUMOR
A	novel	TUMOR
A	novel	TUMOR
G	rs6860507	TUMOR
A	novel	TUMOR
T	rs456285	TUMOR
A	rs149560096	TUMOR
G	rs61755040	TUMOR
G	rs2233442	TUMOR
-	rs376045897	TUMOR
C	rs17646552	TUMOR
T	rs61732213	TUMOR
A	rs74763333	TUMOR
A	rs117307800	TUMOR
G	rs11246947	TUMOR
A	rs10813983	TUMOR
A	rs1263337	TUMOR
G	rs11553611	TUMOR
T	rs905721	TUMOR
G	rs1799983	TUMOR
C	novel	TUMOR
G	rs12344155	TUMOR
T	rs11574894	TUMOR
G	rs217434	TUMOR
G	rs3812694	TUMOR
G	rs727162	TUMOR

VEP annotated somatic variants

IGATCCGCCTGCCTTG/	novel	TUMOR
G	rs7644275	TUMOR
-	rs773872527	TUMOR
T	rs144139217	TUMOR
C	rs28932181	TUMOR
A	rs2303707	TUMOR
T	rs142803792	TUMOR
C	rs79891871	TUMOR
A	rs11550029	TUMOR
A	rs1175392	TUMOR
T	rs10093400	TUMOR
C	novel	TUMOR
A	rs11244329	TUMOR
G	rs10872646	TUMOR
-	rs141363348	TUMOR
-	rs10567712	TUMOR
T	rs7657846	TUMOR
T	rs1806222	TUMOR
A	rs748486	TUMOR
C	rs1029305	TUMOR
C	rs2027833	TUMOR
T	rs202009336,rs2027831	TUMOR
C	rs2027832	TUMOR
C	rs2295478	TUMOR
G	rs2294695	TUMOR
A	rs115194510	TUMOR
A	rs11903	TUMOR
T	rs3826861	TUMOR
G	rs1025576	TUMOR
T	rs703903	TUMOR
A	rs7121804	TUMOR
T	rs61890335	TUMOR
T	rs56352135	TUMOR
A	rs12283334	TUMOR
G	rs10838637	TUMOR
C	rs7145814	TUMOR
A	rs115424559	TUMOR
A	rs4465383	TUMOR
G	rs74782118	TUMOR
T	rs2297594	TUMOR
G	rs733728	TUMOR
G	rs173776	TUMOR
-	novel	TUMOR
G	rs57131062	TUMOR
AGC	rs148216086	TUMOR
G	rs1152187	TUMOR
A	rs2070871	TUMOR
C	novel	TUMOR
T	rs55701638	TUMOR
A	rs5914274	TUMOR
A	rs10408458	TUMOR
A	rs62620049	TUMOR
G	rs11185826	TUMOR
A	rs7535528	TUMOR
A	rs760781025	TUMOR

VEP annotated somatic variants

A	rs11577368	TUMOR
T	rs11547363	TUMOR
G	rs41302597	TUMOR
G	rs13007173	TUMOR
G	rs6927706	TUMOR
G	rs3812657	TUMOR
A	rs766854336	TUMOR
A	rs12707531	TUMOR
A	rs4816	TUMOR
A	rs78561636	TUMOR
T	rs2241988	TUMOR
G	rs74436253	TUMOR
A	rs392565	TUMOR
A	rs1131978	TUMOR
T	novel	TUMOR
C	rs246388	TUMOR
C	rs246391	TUMOR
C	rs1780192	TUMOR
G	rs4985155	TUMOR
G	rs2740	TUMOR
-	rs34125357	TUMOR
G	rs1867780	TUMOR
G	rs6676171	TUMOR
A	rs12407843	TUMOR
C	rs6671392	TUMOR
A	rs17570	TUMOR
G	rs1061338	TUMOR
G	rs2306304	TUMOR
T	rs2306301	TUMOR
A	novel	TUMOR
C	rs17303413	TUMOR
T	rs34440547	TUMOR
G	rs3006473	TUMOR
T	rs3750354	TUMOR
:TTCATCTCTGATGGGA`	novel	TUMOR
-	novel	TUMOR
A	novel	TUMOR
A	rs12800061	TUMOR
G	rs1668	TUMOR
C	rs7531782	TUMOR
G	rs17714063	TUMOR
G	rs72818370	TUMOR
G	rs4791765	TUMOR
A	novel	TUMOR
A	rs11541025	TUMOR
G	rs5751975	TUMOR
A	rs3761646	TUMOR
C	rs734823	TUMOR
T	rs9370067	TUMOR
C	rs7967264	TUMOR
A	novel	TUMOR
T	rs2020923	TUMOR
A	novel	TUMOR
A	rs3740365	TUMOR
G	rs10786156	TUMOR

VEP annotated somatic variants

T	rs3831084	TUMOR
T	rs3765524	TUMOR
C	rs4072830	TUMOR
G	rs12727342	TUMOR
C	rs10752744	TUMOR
C	rs55895668	TUMOR
G	rs6993938	TUMOR
A	rs1065837	TUMOR
A	rs11777402	TUMOR
G	rs7014582	TUMOR
G	rs7819099	TUMOR
T	novel	TUMOR
T	rs6573782	TUMOR
C	rs1555400	TUMOR
G	rs749271	TUMOR
A	rs28687780	TUMOR
GGCGTGGGGTCCCT	rs139924905	TUMOR
A	rs3744078	TUMOR
T	rs55709850	TUMOR
;TATAATTTTAAACTAT	novel	TUMOR
T	rs12197079	TUMOR
C	rs2294917	TUMOR
A	rs8107538	TUMOR
-	rs67346689	TUMOR
A	novel	TUMOR
T	novel	TUMOR
G	rs2424213	TUMOR
A	rs7986347	TUMOR
C	rs13273814	TUMOR
G	rs1801282	TUMOR
T	rs3856806	TUMOR
C	rs1669112	TUMOR
GAACCC	rs201186780	TUMOR
G	rs2301287	TUMOR
A	rs34856581	TUMOR
C	rs7894	TUMOR
TGTTTTGTTT	rs113986045	TUMOR
T	rs741932	TUMOR
A	rs2136998	TUMOR
A	rs11099079	TUMOR
C	rs496067	TUMOR
T	rs201600914,rs513572	TUMOR
C	rs513573	TUMOR
G	rs880177	TUMOR
G	rs12544121	TUMOR
G	rs3741089	TUMOR
C	novel	TUMOR
A	rs45596236	TUMOR
-	rs67531107	TUMOR
A	rs384726	TUMOR
A	novel	TUMOR
A	rs141874203	TUMOR
T	rs3761484	TUMOR
A	rs9626578	TUMOR
AAACAAAC	rs150305650	TUMOR

VEP annotated somatic variants

-	rs550887876	TUMOR
A	rs144556615	TUMOR
A	rs59007873	TUMOR
C	rs2072284	TUMOR
G	rs62086002	TUMOR
C	rs2142111	TUMOR
G	rs3809916	TUMOR
A	rs2273786	TUMOR
G	rs41282874	TUMOR
A	novel	TUMOR
C	rs3821880	TUMOR
G	rs4341027	TUMOR
A	rs17853260	TUMOR
A	rs12928073	TUMOR
G	rs116992433	TUMOR
A	rs117568247	TUMOR
C	rs138666431	TUMOR
GC	rs201905426	TUMOR
A	novel	TUMOR
C	rs765051702,rs2058464	TUMOR
G	rs3744619	TUMOR
G	rs3751112	TUMOR
A	rs3812730	TUMOR
G	rs1626469	TUMOR
A	rs11871517	TUMOR
A	rs14193	TUMOR
TTCCACG	rs145796187	TUMOR
G	rs17783124	TUMOR
G	rs2306919	TUMOR
A	rs3729931	TUMOR
A	rs533403212	TUMOR
A	rs1767443	TUMOR
C	rs10875687	TUMOR
-	rs776781597,rs34729771	TUMOR
T	rs201983107	TUMOR
C	rs367680909	TUMOR
A	rs9530901	TUMOR
T	rs2963925	TUMOR
C	rs7813046	TUMOR
G	rs11788747	TUMOR
-	rs150557566	TUMOR
G	rs6899737	TUMOR
GGGGATTA	rs5851607	TUMOR
G	rs465736	TUMOR
C	rs11242	TUMOR
A	rs2581786	TUMOR
C	rs1546650	TUMOR
T	rs1549168	TUMOR
C	rs2275742	TUMOR
A	rs2272805	TUMOR
T	rs7276592	TUMOR
AA	rs3840984	TUMOR
T	rs76239019	TUMOR
T	rs55668927	TUMOR
T		TUMOR



VEP annotated somatic variants

T	rs12944458	TUMOR
-	rs374247435,rs33952548	TUMOR
A	rs144040326	TUMOR
T	novel	TUMOR
C	rs9864412	TUMOR
A	rs967454	TUMOR
T	rs2230774	TUMOR
A	rs11208364	TUMOR
G	rs1535330	TUMOR
T	rs193084032	TUMOR
C	rs2224797,rs111914364	TUMOR
A	rs7900838	TUMOR
C	rs7968684	TUMOR
A	rs486089	TUMOR
T	rs7136561	TUMOR
A	rs12947988	TUMOR
C	rs73020697	TUMOR
CC	novel	TUMOR
AAATGAGCAGGGATTT/	novel	TUMOR
T	rs6509	TUMOR
T	rs7580	TUMOR
G	rs6932660	TUMOR
T	rs7217786	TUMOR
T	rs2271603	TUMOR
A	rs2838344	TUMOR
A	rs2155722	TUMOR
G	rs7210579	TUMOR
C	rs3765595	TUMOR
C	rs542998	TUMOR
T	rs12658664	TUMOR
C	rs11541392	TUMOR
C	rs7098448	TUMOR
A	rs1805343	TUMOR
T	rs11083462	TUMOR
A	rs3745843	TUMOR
T	rs75181912	TUMOR
A	rs777579024	TUMOR
A	rs10754602	TUMOR
T	rs791541	TUMOR
A	rs41279198	TUMOR
G	rs11147974	TUMOR
A	novel	TUMOR
C	rs11763269,rs56059694	TUMOR
G	rs1053744	TUMOR
A	rs11042500	TUMOR
T	rs776039654	TUMOR
T	rs1142287	TUMOR
T	rs882745	TUMOR
C	novel	TUMOR
G	rs2240572	TUMOR
A	rs35006492	TUMOR
A	rs167618	TUMOR
C	rs1546961	TUMOR
T	rs3731760	TUMOR
G	rs6746030	TUMOR

VEP annotated somatic variants

T	rs10180721	TUMOR
T	rs73100512	TUMOR
C	rs3801066	TUMOR
T	rs530168313	TUMOR
A	rs9608973	TUMOR
A	rs6695715	TUMOR
G	rs2273526	TUMOR
A	rs2303513	TUMOR
-	rs3830973	TUMOR
G	rs3750630	TUMOR
G	rs3763695	TUMOR
T	rs9420792	TUMOR
T	rs117852708	TUMOR
C	rs61738919	TUMOR
G	rs5362	TUMOR
A	rs17522707	TUMOR
C	rs1990044	TUMOR
G	rs17241389	TUMOR
G	rs6446202	TUMOR
A	rs1062753	TUMOR
C	rs9323910	TUMOR
C	rs268686	TUMOR
A	novel	TUMOR
A	novel	TUMOR
A	novel	TUMOR
C	rs35377445	TUMOR
A	rs7197262	TUMOR
A	rs147508693	TUMOR
-	rs3998628	TUMOR
C	rs2429908	TUMOR
C	rs2447099	TUMOR
A	rs143734853	TUMOR
A	rs7805	TUMOR
C	rs3740471	TUMOR
T	rs187882127	TUMOR
T	rs41275786	TUMOR
T	rs1233555	TUMOR
A	rs199645557	TUMOR
T	rs3810108	TUMOR
AACTATATCAAAGT	novel	TUMOR
C	rs9982519	TUMOR
C	rs12145798	TUMOR
T	rs11581248	TUMOR
A	rs779111224	TUMOR
C	rs13106574	TUMOR
A	novel	TUMOR
G	rs11976455	TUMOR
C	rs6647476	TUMOR
T	rs2269914	TUMOR
A	rs11668879	TUMOR
C	rs2631365	TUMOR
T	novel	TUMOR
C	rs941650	TUMOR
ATGATGTTGTC	novel	TUMOR
T	rs12942600	TUMOR

VEP annotated somatic variants

T	rs112153156	TUMOR
T	rs145107782	TUMOR
C	rs4980349	TUMOR
-	novel	TUMOR
T	rs41302651	TUMOR
A	rs34664116	TUMOR
A	rs205966	TUMOR
A	rs35870005	TUMOR
G	rs948270	TUMOR
G	rs78020607	TUMOR
T	novel	TUMOR
A	rs2288998	TUMOR
A	rs12703112	TUMOR
G	rs4808709	TUMOR
G	rs10521578	TUMOR
T	rs2278405	TUMOR
T	rs6354	TUMOR
A	rs2248253	TUMOR
T	rs1569951	TUMOR
A	rs17183863	TUMOR
G	rs1056846	TUMOR
-	novel	TUMOR
A	novel	TUMOR
-	novel	TUMOR
T	rs11090629	TUMOR
A	rs3742909	TUMOR
A	rs917208	TUMOR
T	rs12065652	TUMOR
A	novel	TUMOR
A	rs1544402	TUMOR
G	rs10754367	TUMOR
A	rs12142616	TUMOR
T	rs5908761	TUMOR
A	novel	TUMOR
G	rs875097	TUMOR
G	novel	TUMOR
C	rs11548457	TUMOR
T	rs2306324	TUMOR
T	novel	TUMOR
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G	rs117804715	TUMOR
T	rs12536873	TUMOR
T	rs55776327	TUMOR
C	rs1008335	TUMOR
-	novel	TUMOR
T	rs139731922	TUMOR
A	novel	TUMOR
G	rs7207173	TUMOR
-	novel	TUMOR
C	rs697210	TUMOR
-	novel	TUMOR
T	rs11556615	TUMOR
A	novel	TUMOR
G	rs557622174	TUMOR
-	novel	TUMOR

VEP annotated somatic variants

G	rs3780015	TUMOR
C	rs10851866	TUMOR
A	rs3934983	TUMOR
T	rs58802664	TUMOR
-	rs746073071	TUMOR
G	rs1834	TUMOR
G	rs34275118	TUMOR
C	rs41285881	TUMOR
C	rs3759259	TUMOR
A	novel	TUMOR
A	novel	TUMOR
C	rs13050872	TUMOR
A	rs237025	TUMOR
A	rs4803244	TUMOR
T	rs1529733	TUMOR
G	rs4341217	TUMOR
G	rs1390679	TUMOR
C	rs1132645	TUMOR
T	novel	TUMOR
C	rs33976862	TUMOR
C	rs74413846	TUMOR
T	rs1744177	TUMOR
T	rs3743244	TUMOR
C	rs12645298	TUMOR
A	rs3734296	TUMOR
T	rs237028	TUMOR
A	rs17680881	TUMOR
C	rs3788764	TUMOR
T	rs2073138	TUMOR
A	rs35105682	TUMOR
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C	rs606511	TUMOR
A	rs394558	TUMOR
T	rs3217211	TUMOR
T	rs146025212	TUMOR
T	rs9573565	TUMOR
C	rs1138454	TUMOR
G	novel	TUMOR
A	rs59223436	TUMOR
C	rs5944856	TUMOR
C	novel	TUMOR
T	rs10044956	TUMOR
T	rs12169610	TUMOR
T	rs11851097	TUMOR
-	rs530289129	TUMOR
T	novel	TUMOR
G	rs251796	TUMOR
GACATGCCAC	novel	TUMOR
T	rs302858	TUMOR
C	rs118141221	TUMOR
A	rs12857479	TUMOR
T	rs324356	TUMOR
T	rs199687528	TUMOR
A	rs12609379	TUMOR
G	rs11165376	TUMOR

VEP annotated somatic variants

A	rs2290380	TUMOR
G	rs513970	TUMOR
A	rs6605530	TUMOR
-	rs3214576	TUMOR
C	rs2074603	TUMOR
C	novel	TUMOR
-	novel	TUMOR
A	novel	TUMOR
A	rs41284222	TUMOR
A	rs2292151	TUMOR
C	novel	TUMOR
C	rs200152166	TUMOR
T	rs2279322	TUMOR
A	novel	TUMOR
T	rs2228178	TUMOR
C	rs8036209	TUMOR
A	novel	TUMOR
G	rs2291822	TUMOR
C	rs77173980	TUMOR
G	rs12252784	TUMOR
A	rs61741039	TUMOR
-	rs144703742	TUMOR
T	novel	TUMOR
G	rs76116020	TUMOR
A	rs895438	TUMOR
A	rs3800592	TUMOR
C	rs2276884	TUMOR
C	rs5936308	TUMOR
-	novel	TUMOR
G	rs147529920	TUMOR
T	rs12646286	TUMOR
C	rs661561	TUMOR
T	rs3181195	TUMOR
G	rs12531309	TUMOR
A	rs34377860	TUMOR
T	rs2290207	TUMOR
C	rs560191	TUMOR
G	rs2602141	TUMOR
G	rs16957730	TUMOR
T	rs1045781	TUMOR
GAAGTACCCAGGGTAC	novel	TUMOR
G	rs1697964	TUMOR
C	rs1697963	TUMOR
A	novel	TUMOR
T	rs10410833	TUMOR
T	rs9322994	TUMOR
C	rs12147991	TUMOR
T	rs2295275	TUMOR
C	rs3020967	TUMOR
T	rs1029237	TUMOR
A	rs2269553	TUMOR
A	rs4971059	TUMOR
T	rs35622844	TUMOR
G	rs114415891	TUMOR
T	rs2297889	TUMOR

VEP annotated somatic variants

CACACAGGTGTTTT	rs11268748	TUMOR
C	rs30774	TUMOR
T	rs200889110	TUMOR
C	rs148858467	TUMOR
C	rs7885599	TUMOR
T	rs1885117	TUMOR
C	rs12906081	TUMOR
A	rs34350821	TUMOR
G	rs2063010	TUMOR
A	novel	TUMOR
G	rs1073123	TUMOR
A	rs10901220	TUMOR
A	novel	TUMOR
G	rs12030928	TUMOR
T	rs1802288	TUMOR
G	rs4826996	TUMOR
A	rs1052773	TUMOR
C	rs12664472	TUMOR
C	rs3800294	TUMOR
T	novel	TUMOR
A	rs35168566	TUMOR
T	rs182730993	TUMOR
T	rs2001324	TUMOR
C	rs7898115	TUMOR
C	rs12254171	TUMOR
G	rs7075277	TUMOR
C	rs3750580	TUMOR
T	rs1132079	TUMOR
G	rs17634167	TUMOR
G	rs12796222	TUMOR
G	rs1046860	TUMOR
T	rs56058201	TUMOR
G	rs705956	TUMOR
C	rs827958	TUMOR
G	novel	TUMOR
T	rs753582974	TUMOR
G	rs2839509	TUMOR
A	rs12575062	TUMOR
C	rs2301914	TUMOR
A	rs781247113	TUMOR
C	rs16923472	TUMOR
A	rs2734828	TUMOR
T	rs2247238	TUMOR
A	rs7852539	TUMOR
G	rs1716698	TUMOR
T	rs220147	TUMOR
A	rs220159	TUMOR
T	rs220150	TUMOR
A	novel	TUMOR
G	rs373842487	TUMOR
A	rs72836153	TUMOR
A	rs62231899	TUMOR
T	novel	TUMOR
T	rs41277210	TUMOR
C	rs4430871	TUMOR

VEP annotated somatic variants

AGCTCAGTTC	novel	TUMOR
T	novel	TUMOR
G	rs9605536	TUMOR
G	rs41279154	TUMOR
T	rs3214918	TUMOR
T	novel	TUMOR
T	rs1220622,rs112401077	TUMOR
C	rs17031260	TUMOR
A	rs55721648	TUMOR
T	novel	TUMOR
A	novel	TUMOR
T	novel	TUMOR
G	rs79238281	TUMOR
T	rs15493	TUMOR
-	novel	TUMOR
G	rs11769825	TUMOR
A	rs13246460	TUMOR
C	rs10857625	TUMOR
T	rs7079527	TUMOR
A	rs10886789	TUMOR
T	rs2289336	TUMOR
A	rs1652727	TUMOR
T	rs1866516	TUMOR
G	rs4538426	TUMOR
A	rs41307688	TUMOR
T	rs181113399	TUMOR
A	rs147562907	TUMOR
C	rs2527189	TUMOR
-	rs763153590	TUMOR
C	rs2278128	TUMOR
A	rs4720537	TUMOR
A	rs11554421	TUMOR
G	rs910697	TUMOR
C	rs3793771	TUMOR
G	rs3734500	TUMOR
T	rs11068780	TUMOR
C	rs3733979	TUMOR
T	rs2270844	TUMOR
T	rs4134861	TUMOR
A	rs114552728	TUMOR
C	rs2273739	TUMOR
A	rs148023469	TUMOR
C	rs1106841	TUMOR
C	rs915927	TUMOR
T	rs25486	TUMOR
T	novel	TUMOR
G	rs3738590	TUMOR
C	rs2666826	TUMOR
T	rs11155787	TUMOR
G	rs9484827	TUMOR
G	rs1001242	TUMOR
G	rs415434	TUMOR
A	rs556775	TUMOR
T	rs11774714	TUMOR
T	rs574606000	TUMOR

VEP annotated somatic variants

G	rs139527148	TUMOR
T	rs537807113	TUMOR
A	rs2306159	TUMOR
T	rs931713	TUMOR
C	rs7781581	TUMOR
G	rs4982766	TUMOR
T	rs4734883	TUMOR
C	rs7915	TUMOR
T	novel	TUMOR
G	rs1989839	TUMOR
A	rs2301639	TUMOR
A	rs2071258	TUMOR
T	rs7066295	TUMOR
C	rs862708	TUMOR
T	rs28444973	TUMOR
A	rs10822043	TUMOR
G	rs2910443	TUMOR
T	novel	TUMOR
G	rs11666149	TUMOR
G	rs384148	TUMOR
T	rs4829778	TUMOR
C	rs1055753	TUMOR
C	rs7273242	TUMOR
A	rs8182086	TUMOR
T	rs11556528	TUMOR
A	rs9636139	TUMOR
AAGT	rs3217340	TUMOR
T	rs8104929	TUMOR
A	rs12067843	TUMOR
C	rs1781873	TUMOR
T	rs11710621,rs118003039	TUMOR
T	rs1129093	TUMOR
C	rs35215913	TUMOR
T	rs8110062	TUMOR
T	rs12590618	TUMOR
T	rs489172	TUMOR
A	novel	TUMOR
C	rs10403445	TUMOR
T	rs781839	TUMOR



VEP annotated somatic variants

hed\_Norm\_Sample\_Bar/latch\_Norm\_Seq\_Allele/latch\_Norm\_Seq\_Allele`umor\_Validation\_Allele

NORMAL	-	-
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	-	-
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	-	-
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	TCTGTCCCTCCCCCTA	TCTGTCCCTCCCCCTA
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	-	-
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C

VEP annotated somatic variants

NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	TTTTT	TTTTT
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	GG	GG
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T

VEP annotated somatic variants

NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	-	-
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A

VEP annotated somatic variants

NORMAL	-	-
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	TA	TA
NORMAL	GAGA	GAGA
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	TAAT	TAAT
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	ACACAC	ACACAC
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	ATATGAATAC	ATATGAATAC
NORMAL	G	G

VEP annotated somatic variants

NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	,GGGCAGAGGCTGCTG	,GGGCAGAGGCTGCTGGCGGGT
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	-	-
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G

VEP annotated somatic variants

NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	-	-
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	TTG	TTG
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	-	-
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A

VEP annotated somatic variants

NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	AA	AA
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	-	-
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	TCAC	TCAC
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C

VEP annotated somatic variants

NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	TATT	TATT
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	-	-
NORMAL	A	A
NORMAL	TCTC	TCTC
NORMAL	C	C



VEP annotated somatic variants

NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	-	-
NORMAL	-	-
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G

VEP annotated somatic variants

NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	-	-
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	-	-
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	GGTGGT	GGTGGT
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C

VEP annotated somatic variants

NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	-	-
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G

VEP annotated somatic variants

NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	CG	CG
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C

VEP annotated somatic variants

NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	TTT	TTT
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	-	-
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	GCCT	GCCT
NORMAL	C	C
NORMAL	GG	GG
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G

VEP annotated somatic variants

NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	-	-
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	TT	TT
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	ACACACAC	ACACACAC
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	-	-
NORMAL	C	C
NORMAL	CT	CT
NORMAL	A	A
NORMAL	T	T

VEP annotated somatic variants

NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	-	-
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A

VEP annotated somatic variants

NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	GGG	GGG
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	-	-
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C



VEP annotated somatic variants

NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	TT	TT
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	TGTTG	TGTTG
NORMAL	-	-
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C

VEP annotated somatic variants

NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	TTTT	TTTT
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C

VEP annotated somatic variants

NORMAL	-	-
NORMAL	C	C
NORMAL	AGAG	AGAG
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	TTAAAG	TTAAAG
NORMAL	TCTAA	TCTAA
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	AA	AA
NORMAL	C	C
NORMAL	-	-
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T

VEP annotated somatic variants

NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	-	-
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C

VEP annotated somatic variants

NORMAL	-	-
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	-	-
NORMAL	G	G
NORMAL	G	G
NORMAL	-	-
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	CC	CC
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	-	-
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	-	-
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	CTGGT	CTGGT
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	-	-

VEP annotated somatic variants

NORMAL	AA	AA
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	-	-
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	-	-
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	GCCTTC	GCCTTC
NORMAL	T	T
NORMAL	-	-
NORMAL	A	A
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	-	-
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G

VEP annotated somatic variants

NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	-	-
NORMAL	-	-
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A

VEP annotated somatic variants

NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	GAC	GAC
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	TT	TT
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	-	-
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	-	-
NORMAL	C	C



VEP annotated somatic variants

NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	CGAAGAGTG	CGAAGAGTG
NORMAL	T	T
NORMAL	TT	TT
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C

VEP annotated somatic variants

NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	ATAT	ATAT
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	-	-
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	AAACAAAC	AAACAAAC
NORMAL	C	C
NORMAL	A	A
NORMAL	-	-
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A

VEP annotated somatic variants

NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	TAGGTTGACTATCA	TAGGTTGACTATCA
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	-	-
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A

VEP annotated somatic variants

NORMAL	-	-
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T

VEP annotated somatic variants

NORMAL	-	-
NORMAL	G	G
NORMAL	A	A
NORMAL	A	A
NORMAL	-	-
NORMAL	A	A
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	T	T
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	:CTCCTCCTCCTCCCTT	:CTCCTCCTCCTCCCTTA
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	C	C
NORMAL	G	G
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	T	T
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	C	C

VEP annotated somatic variants

NORMAL	C	C
NORMAL	A	A
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	A	A
NORMAL	A	A
NORMAL	A	A
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	G	G
NORMAL	C	C
NORMAL	T	T
NORMAL	C	C
NORMAL	G	G
NORMAL	A	A
NORMAL	G	G
NORMAL	T	T
NORMAL	T	T
NORMAL	A	A
NORMAL	T	T
NORMAL	T	T
NORMAL	G	G
NORMAL	G	G
NORMAL	G	G
NORMAL	-	-
NORMAL	C	C
NORMAL	G	G
NORMAL	T	T
NORMAL	C	C
NORMAL	C	C
NORMAL	A	A
NORMAL	C	C
NORMAL	C	C
NORMAL	C	C
NORMAL	T	T
NORMAL	G	G
NORMAL	C	C

VEP annotated somatic variants

**tumor\_Validation\_AlleleCh\_Norm\_Validation\_AlleCh\_Norm\_Validation\_All Verification\_Status**

## VEP annotated somatic variants



## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

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## VEP annotated somatic variants

## VEP annotated somatic variants



## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

VEP annotated somatic variants

**Validation\_Status**      **Mutation\_Status**      **Sequencing\_Phase**      **Sequence\_Source**

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants



## VEP annotated somatic variants

## VEP annotated somatic variants

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## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants



## VEP annotated somatic variants

## VEP annotated somatic variants

VEP annotated somatic variants

**Validation\_Method**

**Score**

**BAM\_File**

**Sequencer**

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants



## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

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## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants

## VEP annotated somatic variants



VEP annotated somatic variants

Tumor_Sample_UUID	tched_Norm_Sample_UI	HGVSc	HGVSp
		c.361+98_361+99insAA	
		c.553+23A>G	
		c.687+71C>G	
		c.783T>C	p.=
		c.*35G>A	
		c.301+85A>C	
		c.2741-20T>C	
		c.1791+26T>C	
		c.4038T>A	p.=
		c.1868-85delG	
		c.3819G>A	p.=
		c.-61_-52dupTCGCCCGCTC	
		c.2342+5C>T	
		c.340G>A	p.Ala114Thr
		c.1093-50C>A	
		c.30+67C>G	
		c.1229-84C>T	
		c.1376-83A>G	
		c.-42C>T	
		c.639+94C>T	
		c.239-6G>A	
		c.1072-31C>T	
		c.666+73C>T	
		c.201+89C>T	
		c.810+5G>A	
		c.2305C>T	p.Pro769Ser
		c.1192-91_1192-90insTTAT	
		c.2818C>A	p.Leu940Met
		c.2291-43T>C	
		c.868-9delT	
		c.1549-17G>A	
		c.1223+39T>C	
		c.2217+23A>G	
		c.342-14456_342-14442delTCCTCCCCCTATCTG	
		c.621A>G	p.=
		c.2965-16T>C	
		c.1359+29G>A	
		c.478+77dupG	
		c.64-43T>C	
		c.573C>T	p.=
		c.2623+85A>G	
		c.-4-71G>A	
		c.48T>C	p.=
		c.1449+55G>A	
		c.1417-43G>A	
		c.286G>A	p.Val96Ile
		c.588C>T	p.=
		c.879+156T>C	
		c.6945+8C>T	
		c.4149-59C>G	
		c.909-11C>T	
		c.1058+47C>A	

VEP annotated somatic variants

c.321-35G>A	
c.1392-42T>A	
c.1451+82C>T	
c.-74A>C	
c.4735+37C>T	
c.911+92A>G	
c.772+26T>C	
c.4341G>A	p.=
c.426+42A>C	
c.3031+23_3031+27delTTTTT	
c.480+24G>A	
c.2616-97C>T	
c.3025T>C	p.Phe1009Leu
c.2376-16A>G	
c.1874-7T>C	
c.804G>A	p.=
c.463-41G>A	
c.483+60G>A	
c.2480+90T>A	
c.-462C>T	
c.1537-74A>G	
c.1455+52G>C	
c.703-36C>T	
c.1066G>A	p.Gly356Arg
c.1-99C>T	
c.395-30G>T	
c.83T>G	p.Leu28Arg
c.-64A>G	
c.447+90T>C	
c.1918G>T	p.Val640Phe
c.148+91_148+92delCC	
c.2050A>G	p.Met684Val
c.403+11T>C	
c.1104+13T>C	
c.1806G>A	p.=
c.1283-89G>A	
c.635-67G>A	
c.1099T>G	p.Leu367Val
c.543T>C	p.=
c.865+84T>C	
c.492G>A	p.=
c.795+68C>T	
c.-196C>T	
c.250A>G	p.Arg84Gly
c.6009C>T	p.=
c.843-27A>G	
c.341+92C>A	
c.274+6G>A	
c.585G>T	p.Trp195Cys
c.1698+53A>C	
c.317-15G>A	
c.716-93T>C	
c.187+30delT	

VEP annotated somatic variants

c.-69C>A	
c.963+97G>A	
c.1354-50C>T	
c.456-50C>T	
c.638-60T>C	
c.2654-35158C>G	
c.716-49G>A	
c.1161+86T>A	
c.76+47A>G	
c.574-24G>C	
c.*350G>A	
c.1005C>T	p.=
c.2259C>T	p.=
c.2970-39C>G	
c.986+17C>G	
c.*30+81G>T	
c.2782-29C>A	
c.-22-28A>T	
c.1294-60C>T	
c.2637-41C>T	
c.1882+22A>G	
c.2172+52C>T	
c.833-41C>T	
c.848-6T>C	
c.1564A>C	p.Ile522Leu
c.2463-85dupG	
c.983G>A	p.Arg328His
c.352-63C>T	
c.1491+61G>A	
c.1157G>A	p.Arg386Gln
c.-34T>G	
c.93-66A>G	
c.4853+21C>T	
c.457-72G>T	
c.2764+2T>A	
c.205-56C>T	
c.308A>G	p.Asn103Ser
c.99+1475T>C	
c.1258+96G>A	
c.6477+33G>T	
c.5215+66G>A	
c.5137+65G>A	
c.4548-63C>G	
c.681+56C>T	
c.1423-50G>A	
c.864C>T	p.=
c.1312-37T>C	
c.68-14T>C	
c.656-71C>T	
c.1453-105G>T	
c.992G>A	p.Gly331Asp
c.544+78T>A	
c.148+59G>A	
c.993G>T	p.=
c.4984-45T>C	

VEP annotated somatic variants

c.4272T>C	p.=
c.1244-68C>T	
c.822-71G>A	
c.164A>G	p.Gln55Arg
c.1540-23C>T	
c.550_551delAT	p.Met184AspfsTer14
c.434+86_434+89delGAGA	
c.*49T>C	
c.1112A>G	p.His371Arg
c.-7T>C	
c.393T>A	p.Asp131Glu
c.1734A>G	p.=
c.347-7128_347-7125delATTA	
c.1228-73A>G	
c.1000+6C>G	
c.296-46T>C	
c.*10C>G	
c.28-83A>T	
c.2441-24C>A	
c.177+94C>A	
c.3391-35T>C	
c.4017+17C>G	
c.-333T>C	
c.567+71C>T	
c.790-34T>C	
c.645C>T	p.=
c.2446C>T	p.Leu816Phe
c.5941-93_5941-88delGTGTGT	
c.1974+8A>C	
c.2663+79C>T	
c.1152+78G>T	
c.3312+10G>C	
c.334-89T>C	
c.2478+95C>G	
c.1795-85C>T	
c.-71G>A	
c.*41G>A	
c.517+95C>T	
c.437+38C>T	
c.849C>T	p.=
c.1237+63C>T	
c.283+96C>T	
c.262-13C>T	
c.1383+22A>G	
c.772+16C>T	
c.*97C>T	
c.365-88G>C	
c.3868+98C>T	
c.1316-57C>G	
c.27C>T	p.=
c.1293G>A	p.=
c.640+37_640+46delTGAATACATA	
c.733G>A	p.Val245Met

VEP annotated somatic variants

c.778-12A>T	
c.*67G>A	
c.*23A>G	
c.497+65T>C	
c.570A>G	p.=
c.2024A>T	p.Glu675Val
c.280-12528G>A	
c.3356+21G>A	
c.156C>T	p.=
c.303+38C>A	
c.298+18G>A	
c.50-61G>A	
c.941+103G>A	
c.2390A>G	p.Asn797Ser
c.608delA	p.His203ProfsTer5
c.975+39T>C	
c.774+59delT	
c.776A>C	p.Lys259Thr
c.673+58A>G	
c.515_541delACCCGCCAGCAGCCTCT	p.Asp172_Pro180del
c.1953+62A>G	
c.*1+24G>T	
c.1574A>G	p.Gln525Arg
c.229-51G>A	
c.1111-80C>G	
c.116+17C>A	
c.528-74A>T	
c.1227A>G	p.=
c.2980+57C>A	
c.57+14C>A	
c.86-34C>T	
c.-6T>C	
c.65-57G>A	
c.425-1789_425-1788insGAA	
c.1081+78G>A	
c.1306-78A>C	
c.755G>A	p.Arg252His
c.935+62A>G	
c.552A>G	p.=
c.592-20delA	
c.83G>T	p.Arg28Leu
c.1050+86C>T	
c.3167+99T>A	
c.-25-96T>C	
c.222+31C>T	
c.404G>A	p.Ser135Asn
c.590-64A>T	
c.1070+88A>G	
c.1474+97T>A	
c.1204C>T	p.His402Tyr
c.4389G>A	p.=
c.-35A>G	
c.39G>C	p.=
c.343+56C>T	

VEP annotated somatic variants

c.403+68A>G	
c.545C>T	p.Ala182Val
c.*68T>C	
c.*6G>A	
c.2888+34C>T	
c.633C>T	p.=
c.5702+64C>A	
c.366C>G	p.His122Gln
c.1141-15T>C	
c.1372+20C>A	
c.1227+83G>A	
c.*93G>A	
c.-25A>G	
c.*19A>C	
c.309-1G>T	
c.1006-50G>A	
c.1534+41G>A	
c.1977-95G>C	
c.2340+88G>A	
c.4716C>T	p.=
c.1036-93A>G	
c.1359G>A	p.=
c.1486+67C>A	
c.3381+17A>C	
c.3248-4A>G	
c.5656-81T>G	
c.3525G>A	p.=
c.1482-25T>C	
c.1120-43T>C	
c.3278-76_3278-75insTTTCAACATTGTCTCCATTCGG	
c.703-67G>T	
c.2463+60A>G	
c.2257-71A>T	
c.1240G>A	p.Ala414Thr
c.2519-46A>G	
c.4098+57C>A	
c.1399-32T>C	
c.1897+66_1897+68delCAA	
c.408C>G	p.=
c.157+13A>G	
c.2285+72C>G	
c.191-159G>A	
c.*54C>A	
c.3154A>G	p.Ile1052Val
c.1054+1196G>A	
c.396+45T>C	
c.505+91G>A	
c.749-88C>A	
c.777C>A	p.=
c.2029-61_2029-60insACAGACAATGCCCAA	
c.700-28A>T	
c.1730+79A>C	
c.-33C>T	
c.-15C>A	
c.621+43T>A	

VEP annotated somatic variants

c.3912T>C	p.=
c.-11-33C>T	
c.4488G>A	p.=
c.292+13A>G	
c.423G>A	p.=
c.1911C>T	p.=
c.35+143T>C	
c.4715T>C	p.Leu1572Pro
c.64-93C>G	
c.2932G>A	p.Gly978Arg
c.1919+24T>A	
c.2403G>A	p.=
c.1327C>T	p.His443Tyr
c.-55G>A	
c.756+26G>T	
c.152-57C>T	
c.1304-56T>G	
c.1162-64C>T	
c.798+50_798+51delTT	
c.38C>T	p.Pro13Leu
c.292-52G>T	
c.63G>A	p.=
c.124+67A>G	
c.715-52T>C	
c.366+61A>C	
c.234T>C	p.=
c.133-78G>A	
c.2053+13A>G	
c.1017C>T	p.=
c.-80G>C	
c.348T>C	p.=
c.1290-93T>C	
c.881-95T>C	
c.1596+34C>A	
c.1488+88T>G	
c.670G>C	p.Glu224Gln
c.48+53C>G	
c.625+80C>T	
c.591+44C>T	
c.460-34G>A	
c.1544-193_1544-192dupCA	
c.738+13G>A	
c.1728+91A>G	
c.3264-32G>A	
c.1281-26A>G	
c.2325+47G>A	
c.*78_*81delCTCA	
c.*68A>G	
c.1981+609C>T	
c.112-100C>T	
c.1825+96T>C	
c.358-300A>G	
c.4189-28C>A	
c.-55-80G>A	

VEP annotated somatic variants

c.1191+71G>A	
c.2466+38T>C	
c.9945+96T>C	
c.4477-37T>C	
c.8726+54C>T	
c.8190+9T>G	
c.8545-65A>G	
c.11340+76T>G	
c.9445-23A>G	
c.346-80C>A	
c.3537+71T>C	
c.12298-36T>C	
c.463+6T>C	
c.386-20G>A	
c.4548+22delC	
c.3877-55C>G	
c.4250-63C>T	
c.3438G>A	p.=
c.1051G>C	p.Glu351Gln
c.676+40T>G	
c.531-100G>C	
c.1900+3G>A	
c.847+5C>A	
c.2247-9C>T	
c.1698+48G>C	
c.2629-52G>A	
c.2362+43C>T	
c.84+83_84+86delTTTA	
c.3123C>A	p.=
c.30C>T	p.=
c.273+10C>T	
c.2195-66A>C	
c.181+73C>T	
c.110+52T>G	
c.219-51A>G	
c.279G>A	p.=
c.-39C>G	
c.430T>G	p.Ser144Ala
c.795-38G>A	
c.11955+73T>C	
c.-93T>C	
c.77G>T	p.Arg26Leu
c.1022C>T	p.Thr341Ile
c.1507-30G>C	
c.1428+31C>A	
c.66+81C>T	
c.205-75G>T	
c.233+30G>T	
c.1071+35T>A	
c.2339+67C>A	
c.324+88A>G	
c.87+306_87+307insGGTGATTCCCACCCC	
c.806-69A>G	
c.307+63_307+66delCTCT	
c.762+25G>T	



VEP annotated somatic variants

c.372G>A	p.=
c.160-72C>A	
c.1059-31T>C	
c.99C>T	p.=
c.1509G>A	p.=
c.417C>T	p.=
c.1509C>A	p.=
c.1218T>C	p.=
c.1150+70C>T	
c.631-4C>T	
c.1034G>C	p.Ser345Thr
c.807+60A>T	
c.592-74A>G	
c.1723T>C	p.Ser575Pro
c.884+40G>C	
c.884+41A>G	
c.489G>A	p.=
c.1742-72T>C	
c.208+60G>A	
c.53-26T>C	
c.1435+68C>A	
c.1747+31G>A	
c.416A>G	p.His139Arg
c.1236C>T	p.=
c.581-52G>T	
c.2225-56A>G	
c.1768G>A	p.Gly590Arg
c.512C>T	p.Thr171Ile
c.734C>T	p.Thr245Met
c.6G>A	p.=
c.1479+89G>A	
c.327+9C>T	
c.988-53C>T	
c.1012-85T>A	
c.3150G>A	p.=
c.590+99T>A	
c.1765G>A	p.Glu589Lys
c.2533-71G>T	
c.96+37A>G	
c.3780C>G	p.Asp1260Glu
c.1010-27G>A	
c.1120G>A	p.Val374Ile
c.193-24T>A	
c.744+47C>G	
c.747+17G>C	
c.364+85T>G	
c.716G>A	p.Arg239His
c.189+6969_189+6970insCG	
c.189+6970_189+6971insCCTAGATGCAGGAG	
c.*27C>G	
c.*244C>A	
c.297+12A>G	
c.348C>T	p.=
c.70+24C>T	

VEP annotated somatic variants

c.*74G>A	
c.2346+27A>C	
c.7034+89G>T	
c.282+100G>T	
c.-42C>G	
c.655+39C>T	
c.3000T>C	p.=
c.560C>T	p.Ala187Val
c.827-10C>T	
c.249-35A>G	
c.855+58A>G	
c.387A>C	p.=
c.*18T>C	
c.1032-19T>C	
c.1893+1626C>T	
c.3651C>T	p.=
c.3732+52C>T	
c.3224-18C>T	
c.464C>T	p.Pro155Leu
c.5896C>G	p.His1966Asp
c.579+53G>A	
n.926G>A	
c.2697-16C>T	
c.1570-87T>C	
c.557+98C>T	
c.406-84G>T	
c.675+37C>A	
c.314-95G>A	
c.1152G>A	p.=
c.1162G>A	p.Gly388Arg
c.*16C>T	
c.1197-5086T>C	
c.2952C>T	p.=
c.1197-4807C>T	
c.26-12C>A	
c.923+74_923+75insCCTTTTAAACAACCAG	
c.594G>A	p.=
c.222-13C>T	
c.1286C>T	p.Thr429Met
c.1748-61A>G	
c.3001+69_3001+70insTAGGGTAACC	
c.4765+69T>C	
c.4307+76G>A	
c.441C>T	p.=
c.172_177delACCACC	p.Thr58_Thr59del
c.314-67G>A	
c.5175-16C>T	
c.2091C>G	p.=
c.1284T>C	p.=
c.301-78G>A	
c.*192T>C	
c.1947T>C	p.=
c.7682+85C>G	

VEP annotated somatic variants

c.8439C>T	p.=
c.1820-26G>A	
c.8604+28A>T	
c.3987C>A	p.=
c.1898+85G>A	
c.559+49A>T	
c.1458+59C>T	
c.1587C>T	p.=
c.-2-33A>T	
c.-11T>G	
c.65-60A>G	
c.3057+67A>G	
c.1393-41G>T	
c.1662-27G>A	
c.382+60delC	
c.1671-15C>T	
c.611+34G>A	
c.1057-77A>G	
c.1420C>A	p.Gln474Lys
c.157T>G	p.Tyr53Asp
c.1543G>T	p.Val515Phe
c.1056A>G	p.=
c.1469C>T	p.Ala490Val
c.*94dupA	
c.-148G>C	
c.-19-57C>T	
c.1647+33T>A	
c.660C>T	p.=
c.1095C>T	p.=
c.926-34528A>G	
c.988+7A>G	
c.548-61C>G	
c.347-28A>G	
c.345+56A>G	
c.1380+73A>G	
c.44-32G>A	
c.1438G>C	p.Ala480Pro
c.1550C>T	p.Ala517Val
c.1405C>T	p.Arg469Cys
c.278-42G>A	
c.289G>A	p.Val97Ile
c.2652C>T	p.=
c.2318+23A>T	
c.776-81G>T	
c.-7C>T	
c.253A>G	p.Ile85Val
c.494+41A>C	
c.880+32C>T	
c.186+61A>G	
c.934+80A>T	
c.309C>T	p.=
c.110G>A	p.Arg37His
c.453C>T	p.=
c.3042C>T	p.=

VEP annotated somatic variants

c.-5T>C	
c.1248G>A	p.=
c.822-32T>C	
c.771+76_771+77delCG	
c.21G>T	p.=
c.370G>T	p.Val124Leu
c.652G>C	p.Ala218Pro
c.-161C>T	
c.131+24G>A	
c.401+20G>A	
c.172+25G>C	
c.1425T>C	p.=
c.540+82T>A	
c.930+100C>A	
c.1478+100G>T	
c.809+56G>A	
c.3322+81T>A	
c.721-50G>A	
c.268+18363T>A	
c.1789C>T	p.=
c.227-87G>C	
c.1847C>T	p.Thr616Met
c.-64C>T	
c.445-16C>T	
c.15+318C>T	
c.1191+80C>T	
c.*2239G>T	
c.2957-68C>T	
c.*40C>A	
c.716-35A>G	
c.91-98G>T	
c.350-60T>G	
c.2355+50A>G	
c.3170+76C>T	
c.379-22C>T	
c.525G>A	p.=
c.5355+28C>T	
c.2242-15C>T	
c.1842G>A	p.=
c.1895T>C	p.Val632Ala
c.2155+84A>T	
c.141-59A>T	
c.1229+57A>C	
c.31+20T>C	
c.867-45C>T	
c.1027-97G>T	
c.187C>G	p.His63Asp
c.1008G>A	p.=
c.288+32C>G	
c.1730+666G>A	
c.39C>T	p.=
c.216+289G>T	
c.*89C>T	
c.-20+107G>A	

VEP annotated somatic variants

c.48C>T	p.=
c.591+34delC	
c.619C>A	p.Leu207Met
c.1681-30G>A	
c.1375+57_1375+59delAAA	
c.606G>T	p.=
c.1297+59G>A	
c.494G>T	p.Gly165Val
c.527-51T>A	
c.1519-78G>A	
c.1386G>A	p.=
c.455-21dupC	
c.516G>A	p.=
c.198+4C>A	
c.12T>A	p.=
c.2109A>G	p.=
c.5987G>A	p.Arg1996His
c.382G>A	p.Val128Ile
c.407-74T>A	
c.*5909T>C	
c.207+94C>G	
c.780-92A>G	
c.536G>C	p.Ser179Thr
c.28T>G	p.Phe10Val
c.2956+72A>G	
c.1765+64T>G	
c.6996-5T>A	
c.2899-56G>A	
c.80-80C>T	
c.1347A>G	p.=
c.2571T>C	p.=
c.952+76C>T	
c.581-66C>T	
c.999G>T	p.Glu333Asp
c.425-15T>C	
c.696+3A>G	
c.967+68_967+71delAGGC	
c.3069G>C	p.=
c.1090+31_1090+32delGG	
c.530C>A	p.Ser177Tyr
c.177-55G>A	
c.*70G>A	
c.*57A>C	
c.*9C>T	
c.408-73T>C	
c.1650G>A	p.=
c.1610+28A>C	
c.1425+27C>T	
c.6347+50A>T	
c.1275+98C>T	
c.1521+57A>G	
c.3423-40delG	
c.3114+22C>A	
c.1299+93C>A	
c.957G>C	p.=

VEP annotated somatic variants

c.2835-60A>G  
 c.2089+20T>C  
 c.1385+39T>C  
 c.1840-13G>A  
 c.1540-83A>G  
 c.390G>A p.=  
 c.2297-63A>G  
 c.552+28T>C  
 c.1933-26A>G  
 c.526-58G>A  
 c.6946-99\_6946-98insCAGCTTC  
 c.1714-4C>A  
 c.729C>T p.=  
 c.4174-47G>A  
 c.3784-69G>C  
 c.297-67C>T  
 c.285-76G>A  
 c.1948-20A>G  
 c.181+50G>A  
 c.906+9C>G  
 c.1206C>T p.=  
 c.\*49\_\*50delTT  
 c.\*54C>T  
 c.2884-81T>C  
 c.1578C>T p.=  
 c.2781C>T p.=  
 c.234G>A p.=  
 c.566C>G p.Pro189Arg  
 c.866-63C>A  
 c.378-33G>T  
 n.1143+41G>A  
 c.217+12C>G  
 c.-57C>T  
 c.4239+18G>A  
 c.1734+61G>A  
 c.2086-13C>T  
 c.228+40C>A  
 c.2177C>A p.Thr726Lys  
 c.1052-25G>C  
 c.1612A>C p.=  
 c.1930C>A p.Arg644Ser  
 c.33C>T p.=  
 c.901+120C>A  
 c.2065T>G p.Ser689Ala  
 c.3879+55\_3879+62delGTGTGTGT  
 c.3486C>T p.=  
 c.28-79T>A  
 c.1554+39G>T  
 c.270C>T p.=  
 c.456+70C>T  
 c.799-96\_799-95insAAGGCCCGGGCCCTGGCTGGGGAGGCCCATGATTA ACTCTTAAGAA  
 c.1336-73C>A  
 c.3976+101\_3976+102delTC  
 c.842-25T>A  
 c.799-20A>G

VEP annotated somatic variants

c.648A>C	p.=
c.39A>G	p.=
c.1378-59A>T	
c.357+42T>A	
c.14461-53A>G	
c.3387+25C>A	
c.4884+8A>G	
c.936G>A	p.=
c.1416+42G>A	
c.632-55C>T	
c.1749-80C>A	
c.709-38C>G	
c.*67A>T	
c.*4T>C	
c.*33T>C	
c.330T>C	p.=
c.1251+20C>T	
c.4717+61delC	
c.284-85A>G	
c.1077+64C>T	
c.967-34C>A	
c.3486+17G>A	
c.1021+64T>C	
c.3999+69G>A	
c.-6C>A	
c.1446T>C	p.=
c.-46G>T	
c.448-257_448-256insCCAGGTCACCTGCACCT	
c.805+60G>A	
c.1695+100G>A	
c.736-51C>A	
c.656-19G>A	
c.1152+74G>A	
c.1277G>A	p.Arg426His
c.1082+179G>A	
c.1509-35G>A	
c.2219+55T>A	
c.722-46delA	
c.42T>C	p.=
c.1060-2463A>G	
c.1212-24T>C	
c.1240+75A>G	
c.607-59T>C	
c.13659+18G>T	
c.2503+37C>T	
c.562C>T	p.Arg188Trp
c.656-54C>T	
c.350-19A>T	
c.282+96A>T	
c.20G>T	p.Gly7Val
c.*52A>G	
c.4541+85T>A	
c.275T>C	p.Leu92Pro
c.713G>A	p.Arg238Gln
c.*83A>G	

VEP annotated somatic variants

c.1194+52G>A	
c.4359-72C>T	
c.597+75T>C	
c.68-57C>A	
c.-59G>C	
c.-40C>T	
c.1074-9C>G	
c.221-9A>G	
c.-65-13C>G	
c.888A>G	p.=
c.-36C>T	
c.5-45T>C	
c.909G>A	p.=
c.46-28C>A	
c.2464+85G>A	
c.2193C>T	p.=
c.1547-43G>C	
c.1245T>A	p.=
c.728A>C	p.Gln243Pro
c.2594C>T	p.Pro865Leu
c.574G>A	p.Ala192Thr
c.1746-53C>T	
c.945T>G	p.=
c.418-73A>G	
c.360-93_360-91delGGG	
c.489-66T>C	
c.1011T>C	p.=
c.-36C>G	
c.490C>A	p.Arg164Ser
c.1594+39T>C	
c.4136+31C>T	
c.429G>A	p.=
c.15661+81G>A	
c.15661+80G>A	
c.978C>T	p.=
c.4098+65G>A	
c.-4A>G	
c.1375-55T>C	
c.419G>C	p.Cys140Ser
c.-282+72G>T	
c.3094+45C>G	
c.2092-75A>G	
c.*85dupT	
c.724-46G>A	
c.666G>A	p.=
c.1195-19C>T	
c.1704G>A	p.=
c.1190+78G>A	
c.1356C>T	p.=
c.343C>T	p.Leu115Phe
c.1207-33A>T	
c.2241+96C>T	
c.1695-24T>C	
c.1142-88G>A	



VEP annotated somatic variants

c.124-30A>C	
c.2401-73T>C	
c.414+28C>T	
c.1924+89A>G	
c.194-34G>A	
c.979+34C>T	
c.691+693G>C	
c.460A>C	p.Lys154Gln
c.937-61G>A	
c.1418C>T	p.Thr473Ile
c.115+9C>T	
c.241-28C>T	
c.20+141G>A	
c.916T>G	p.Tyr306Asp
c.1853A>G	p.His618Arg
c.1526T>C	p.Val509Ala
c.418-16T>C	
c.-9+19G>A	
c.238+18C>T	
c.522+52G>A	
c.226-5G>A	
c.366+84_366+85delTT	
c.404+72C>T	
c.6909G>A	p.=
c.3144A>G	p.=
c.3711+15G>T	
c.1515+27A>G	
c.3205-49G>A	
c.758+95_758+98delTGTG	
c.41011-10_41011-5dupTCTCCC	
c.7599A>G	p.=
c.-461G>C	
c.*7027+91G>A	
c.7662T>C	p.=
c.1013+88C>T	
c.7353T>C	p.=
c.123C>T	p.=
c.506-12delC	
c.3721G>A	p.Ala1241Thr
c.2322+46A>G	
c.1095G>A	p.=
c.2044+93G>A	
c.3973-30A>G	
c.3485+25G>A	
c.3558C>T	p.=
c.8225-53G>T	
c.3369-73T>C	
c.1354-88G>A	
c.2855-69A>G	
c.4240-1197T>A	
c.1936-77T>C	
c.-12T>C	
c.1134C>T	p.=
c.3300+70A>C	
c.1662-82G>C	

VEP annotated somatic variants

c.2037+93T>A	
c.912G>A	p.=
c.928G>A	p.Ala310Thr
c.190+21T>C	
c.4797+29T>A	
c.2768A>G	p.His923Arg
c.2468+18C>T	
c.165+9T>C	
c.184+31G>A	
c.274C>T	p.Pro92Ser
c.445-50C>T	
c.3684+88C>A	
c.1882-14T>A	
c.1675+48C>T	
c.6679+67C>T	
c.1290C>T	p.=
c.11077-94A>T	
c.1674+30T>G	
c.402+101A>G	
c.1062G>A	p.=
c.510T>C	p.=
c.342+45C>G	
c.995A>C	p.Glu332Ala
c.1637+25G>T	
c.21+99C>A	
c.430-32A>G	
c.312T>C	p.=
c.203-2816T>C	
c.2404+88C>A	
c.4951-65A>T	
c.773+84C>A	
c.637A>G	p.Arg213Gly
c.8049+84T>A	
c.272+68G>A	
c.1528+218G>A	
c.185G>C	p.Ser62Thr
c.914-36C>G	
c.2783-41_2783-38delAAAA	
c.3299+89T>C	
c.2955G>T	p.=
c.443-29G>A	
c.2330+27C>T	
c.1074-40A>G	
c.727+70C>T	
c.2200-46C>T	
c.*42C>G	
c.940-142C>T	
c.894T>G	p.Asp298Glu
c.1820+93T>C	
c.5168-43T>C	
c.2587+74G>A	
c.3888T>C	p.=
c.433A>C	p.Ile145Leu
c.723C>G	p.Ser241Arg

VEP annotated somatic variants

c.888+82\_888+83insTGATCCGCCTGCCTTGA  
c.-87C>G

c.3297+79G>A	
c.3705T>C	p.=
c.1602-11G>T	
c.1413-21G>A	
c.703C>T	p.Arg235Cys
c.735-65C>T	
c.417T>A	p.=
c.1083+59A>C	
c.6074+41G>A	
c.-44T>C	
c.*59_*64delAAGTTA	
c.1057-81_1057-77delTTAGA	
c.1395+10G>A	
c.2163-87G>A	
c.1836-38G>T	
c.197+37A>G	
c.1083-363A>G	
c.1083-242T>A	
c.1083-243A>G	
c.821-44A>G	
c.244-78T>C	
c.1884C>T	p.=
c.*120C>T	
c.143-23906G>A	
c.*61A>C	
c.374G>A	p.Arg125Gln
c.546G>A	p.=
c.43T>A	p.Phe15Ile
c.657C>T	p.=
c.570T>C	p.=
c.895A>G	p.Ile299Val
c.759C>A	p.=
c.630C>T	p.=
c.-59A>G	
c.259-95C>T	
c.489-5A>G	
c.855A>G	p.=
c.1586-53_1586-52delAA	
c.551-51G>C	
c.1445_1447dupGCA	p.Ser482dup
c.533A>C	p.Asn178Thr
c.714C>T	p.=
c.685A>G	p.Lys229Glu
c.1294-34G>T	
c.250+12G>A	
c.57+11G>A	
c.1310+66G>T	
c.612G>C	p.=
c.1640C>T	p.Ala547Val
c.1989+16T>A	

VEP annotated somatic variants

c.84G>T	p.Arg28Ser
c.726C>T	p.=
c.874-8C>G	
c.389+83T>C	
c.218T>C	p.Ile73Thr
c.2220+47T>C	
c.3362G>T	p.Gly1121Val
c.11113-93G>T	
c.532G>A	p.Val178Ile
c.8065-19G>A	
c.67C>T	p.Arg23Trp
c.2205C>T	p.=
c.252G>A	p.=
c.1365-66C>T	
c.3252A>G	p.=
c.3137+4A>G	
c.228-65A>C	
c.2107+49A>G	
c.4625G>C	p.Ser1542Thr
c.207-79T>G	
c.9G>A	p.=
c.1320T>C	p.=
c.1303C>T	p.Leu435Phe
c.*52T>C	
c.1154+56A>G	
c.1090-75C>T	
c.1553-92G>T	
c.937-64G>C	
c.1181G>A	p.Arg394Gln
c.-38T>C	
c.789+6C>T	
c.4829-87_4829-86insCATCCCATCAGAGATGAAGT	
c.919-95delA	
c.3771+20C>A	
c.381C>A	p.=
c.*9A>G	
c.987-87A>G	
c.2010T>C	p.=
c.376A>G	p.Asn126Asp
c.2383-27T>C	
c.614-89C>A	
c.132C>A	p.=
c.102+39T>C	
c.1170C>T	p.=
n.161C>G	
c.8107+81T>A	
c.2145+72A>G	
c.110-92G>T	
c.1223-46G>A	
c.1008+56T>A	
c.5036-26T>A	
c.3398-28C>G	

VEP annotated somatic variants

c.6720+49dupT  
 c.5330C>T p.Thr1777Ile  
 c.194-92A>C  
 c.44-23A>G  
 c.1155-56T>C  
 c.4376A>G p.His1459Arg  
 c.789T>C p.=  
 c.\*10C>T  
 c.8664C>T p.=  
 c.13872T>C p.=  
 c.11538T>C p.=  
 c.829-85G>A  
 c.3183+9C>T  
 c.2088+4G>C  
 c.3933+335A>G  
 c.1294-57G>A  
 c.201+34\_201+47dupGTGGGGTCCCTGGC  
 c.1186+55C>T  
 c.1763-17C>A  
 c.-31-35\_-31-34insAACATAGTTTAAAAATTATAGTT  
 c.1469C>T p.Thr490Met  
 c.1218-48T>C  
 c.2121G>A p.=  
 c.15+26\_15+27delGG  
 c.122+84C>A  
 c.181-95A>T  
 c.874-24A>G  
 c.1530-61C>T  
 c.545A>C p.Lys182Thr  
 c.34C>G p.Pro12Ala  
 c.1431C>T p.=  
 c.477+17T>C  
 c.126\_131dupACCCGA p.Pro43\_Glu44dup  
 c.88-47C>G  
 c.342-64C>T  
 c.\*15G>C  
 c.1996-3594\_1996-3585dupTTTTGTTTTG  
 c.180-3C>T  
 c.744-38C>T  
 c.219+71T>A  
 c.241+36T>C  
 c.242-10A>T  
 c.242-9T>C  
 c.45+10T>C  
 c.2250+15A>G  
 c.366+45T>C  
 c.-47G>C  
 c.1261-51G>A  
 c.1743+29\_1743+33delTCTGG  
 c.552+275G>A  
 c.778-78G>T  
 c.545C>T p.Pro182Leu  
 c.392-972G>T  
 c.1301-73G>A  
 c.1901+85\_1901+92dupGTTTGTTT

VEP annotated somatic variants

c.9236+97_9236+98delTT	
c.431-31C>T	
c.710-77C>T	
c.1243+38T>G	
c.796-3T>C	
c.792+72C>G	
c.-40A>G	
c.210-68C>T	
c.1464+32A>G	
c.2313+39C>A	
c.86-13T>C	
c.3115-98A>C	
c.2415C>T	p.=
c.782-97G>T	
c.3120+76T>C	
c.1646-55A>T	
c.3436-39A>G	
c.3435+15_3435+16dupGC	
c.50-88A>T	
c.-44T>C	
c.337-11C>G	
c.56T>C	p.Val19Ala
c.-11C>T	
c.180+38A>G	
c.649-87G>A	
c.1422C>T	p.=
c.107+86_107+92dupTCCACGT	
c.84+28T>G	
c.2175A>C	p.=
c.1669-36C>T	
c.-137+75G>A	
c.1620+29G>T	
c.2232-36C>G	
c.691-11delC	
c.83G>A	p.Arg28His
c.2379A>C	p.=
c.1854+29C>T	
c.2332-61C>T	
c.66+73G>C	
c.1560A>G	p.=
c.163+67_163+72delGCCTTC	
c.916+60A>C	
c.32_39dupTAATCCCC	p.Leu14Ter
c.-15A>G	
c.1623A>G	p.=
c.1459-57C>T	
c.441+10A>G	
c.-4G>A	
c.1082+5A>G	
c.-85G>A	
c.2331G>A	p.=
c.688+22_688+23insAA	
c.-8C>T	
c.128-61A>T	
c.123C>A	p.=

VEP annotated somatic variants

c.*75C>T	
c.866+46delT	
c.842-73C>T	
c.*37C>A	
c.1967-86A>G	
c.1046-40C>T	
c.1292C>A	p.Thr431Asn
c.1174+90G>A	
c.1262+41G>C	
c.1197-317G>A	
n.4098+27T>G	
c.864+22G>A	
c.-37+2071G>T	
c.438+26G>C	
c.-9_-8insCC	
c.-8_-7insACTTCCCTAAATGAGCAGGGATTTAGGAGTGG	
c.111G>A	p.=
c.492G>A	p.=
c.1231-94T>C	
c.2808+74C>T	
c.2526C>T	p.=
c.213+30G>A	
c.603G>A	p.=
c.582A>G	p.=
c.161-36T>G	
c.1412T>C	p.Val471Ala
c.311-39C>T	
c.2064G>C	p.=
c.1242-27G>A	
c.3456C>T	p.=
c.270+27G>A	
c.6384C>T	p.=
c.7615-29G>A	
c.677-11T>A	
c.4683+59A>T	
c.172-57G>A	
c.240-76C>G	
c.916-100C>T	
c.258+54T>G	
c.5559T>C	p.=
c.4156-46C>T	
c.478+18G>T	
c.378G>A	p.=
c.1203-97G>A	
c.161+76T>C	
c.182A>G	p.His61Arg
c.1048-63C>T	
c.2005-22C>T	
c.1173+69G>A	
c.3448T>C	p.Trp1150Arg

VEP annotated somatic variants

c.4741+16T>A	
c.1235-85G>C	
c.450+111G>A	
c.58C>T	p.Arg20Trp
c.1546-402C>T	
c.1467C>G	p.His489Gln
c.913+49C>T	
c.1045-196_1045-194delGTC	
c.203+73T>C	
c.266T>C	p.Val89Ala
c.1684+23G>A	
c.801+83C>T	
c.730T>G	p.Tyr244Asp
c.529+15T>C	
c.2288-100C>T	
c.453+24A>G	
c.113-42G>C	
c.764-86C>G	
c.1012-95G>A	
c.918-52G>C	
c.1-100C>G	
c.3289+100G>A	
c.1890+34G>A	
c.1077+96T>A	
c.111A>C	p.=
c.2827-60G>A	
c.-51C>T	
c.1299-10_1299-9delTT	
c.1288+46T>C	
c.1001-52G>C	
c.1185+73G>A	
c.1602A>G	p.=
c.1156-65G>A	
c.1078-4G>A	
c.301-49G>A	
c.2956G>A	p.Ala986Thr
c.427+92G>A	
c.157-34_157-33insACTTTTGATATAGTT	
c.1576+652G>C	
c.2244-79A>G	
c.650-20C>T	
c.96G>A	p.=
c.340A>G	p.Ile114Val
c.489+60G>T	
c.611+30T>C	
c.97T>C	p.Ser33Pro
c.1170-30C>A	
c.548+11C>T	
c.285T>C	p.=
c.1085+79C>A	
c.495T>C	p.=
c.70-88_70-87insGACAACATCAT	
c.324+33G>A	



VEP annotated somatic variants

c.325-88G>A	
c.1657-93C>T	
c.718-97T>C	
c.1368+80delC	
c.1150+68C>T	
c.597+26C>T	
c.349+15G>A	
c.1238-86G>A	
c.1125+67A>G	
n.702-46A>G	
c.883+67C>A	
c.1656C>T	p.=
c.1147+95G>A	
c.1767+29A>G	
c.1614+68A>G	
c.988-29C>A	
c.-123-799C>A	
c.913-38G>A	
c.1146C>T	p.=
c.144G>C	p.=
c.725-21_725-13delCACTCTTCG	
c.2329-36A>T	
c.957+76_957+77delTT	
c.1912-60G>A	
c.126G>A	p.=
c.2089+79G>A	
c.813+8G>A	
c.2671-85G>T	
c.2983-4G>A	
c.567T>C	p.=
c.1392C>T	p.=
c.240C>A	p.=
c.211+30G>A	
c.7858+72A>G	
c.7166A>G	p.Glu2389Gly
c.598G>C	p.Val200Leu
c.12G>A	p.=
c.7149+86C>A	
c.4690-90G>T	
c.4603C>G	p.Pro1535Ala
n.12321G>T	
n.9397-39C>T	
n.12765T>C	
c.675-87delC	
c.*25G>A	
c.187-86C>T	
c.361+39T>C	
c.612-263delG	
c.3705T>C	p.=
c.203+75delC	
c.381C>T	p.=
c.12962+56G>A	
c.465+86T>C	
c.2130-32delG	

VEP annotated somatic variants

c.410+17T>C	
c.654A>G	p.=
c.-19G>T	
c.535+25_535+28delATAT	
c.326-14T>G	
c.1477-64A>G	
c.3193+73G>C	
c.610A>G	p.Ser204Gly
c.*43C>A	
c.150+28C>G	
c.163G>A	p.Val55Met
c.2492+86G>A	
c.458+51C>T	
c.278-51A>G	
c.241-68A>G	
c.3381C>G	p.=
n.1481-100A>T	
c.399G>C	p.=
c.6880-24T>C	
c.2850C>T	p.=
c.1697C>T	p.Pro566Leu
c.461G>C	p.Gly154Ala
c.1440G>A	p.=
c.1604-90C>T	
c.1541G>A	p.Gly514Glu
c.835+52A>G	
c.478-67G>A	
c.204C>T	p.=
c.2260+939G>A	
c.1967+35A>G	
c.766G>A	p.Val256Ile
c.1961+59dupT	
c.338C>T	p.Thr113Met
c.498+9G>A	
c.2152A>G	p.Ile718Val
c.1640-88G>C	
c.8-10C>T	
c.203G>C	p.Gly68Ala
c.1487T>C	p.Leu496Ser
c.60-90C>T	
c.*82C>T	
c.819C>T	p.=
c.5391+71_5391+78delGTTTGTTT	
c.5109-94C>T	
c.1215-42T>C	
c.2274+74_2274+75insGACATGCCAC	
c.786-94C>A	
c.2951+37A>G	
c.313-1G>A	
c.633G>A	p.=
c.427G>A	p.Ala143Thr
c.353+14C>T	
c.385-77T>C	

VEP annotated somatic variants

c.589G>A	p.Val197Ile
c.777T>C	p.=
c.3273+29C>T	
c.504-88delG	
c.1734A>G	p.=
c.*1291T>C	
c.672+83delC	
c.3172-90A>T	
c.3951+32G>A	
c.1671C>T	p.=
c.*16G>C	
c.653+34A>G	
c.1720+56G>A	
c.-33C>T	
c.1689G>A	p.=
c.1260+54A>G	
c.81+43T>A	
c.2872A>G	p.Thr958Ala
c.2662+71C>G	
c.1852+56G>C	
c.2532C>T	p.=
c.6477+26delT	
c.-167G>T	
c.16T>C	p.Phe6Leu
c.4573+55C>T	
c.20G>A	p.Arg7Gln
c.541+17A>G	
c.507+30C>G	
c.229+87_229+100delGTTGACTATCATAG	
c.373T>C	p.=
c.*6G>A	
c.805+28A>C	
c.276G>A	p.=
c.4818G>C	p.=
c.863+46C>T	
c.1493G>A	p.Ser498Asn
c.1074C>G	p.Asp358Glu
c.3421A>C	p.Lys1141Gln
c.3191+36T>C	
c.108G>A	p.=
c.240+150_240+151insTTGGAAGTACCCAGGGTAGGG	
c.312-85T>C	
c.597A>G	p.=
c.210+8T>A	
c.194+58G>A	
c.150-89G>A	
c.268-35A>G	
c.2500T>A	p.Cys834Ser
c.-1168+65A>G	
c.848-91C>T	
c.919+76C>T	
c.669+74G>A	
c.761+14G>A	
c.2035A>G	p.Met679Val
c.1306+4T>A	

VEP annotated somatic variants

c.823-58_823-57insAAAACACCTGTGTG		
c.4398T>C		p.=
c.52C>T		p.Pro18Ser
c.1554A>G		p.=
c.1389-17A>G		
c.1409+71G>A		
c.54+53A>G		
c.1003G>T		p.Val335Leu
c.123-49T>C		
c.713-67C>T		
c.965T>C		p.Met322Thr
c.1439-37C>T		
c.1716+61C>A		
c.-142+746A>G		
c.322G>A		p.Ala108Thr
c.597+60A>G		
c.1026G>A		p.=
c.331-42T>C		
c.1868G>C		p.Gly623Ala
c.792+87C>A		
c.994+71G>A		
c.178G>A		p.Glu60Lys
c.5199-47C>A		
c.-25A>G		
c.2333+80A>G		
c.2874T>C		p.=
c.6439-22A>G		
c.750G>A		p.=
c.603T>C		p.=
c.1380+80A>G		
c.*77A>G		
c.4315+56G>A		
c.597A>G		p.=
c.859+76T>C		
c.630+77G>C		
c.1159+18C>A		
c.1047-77A>G		
c.602-72C>A		
c.1503T>C		p.=
c.*30C>T		
c.340-14G>C		
c.542-36C>T		
n.2487C>T		
c.864-72G>A		
c.803+3A>C		
c.3073+89C>T		
c.4006G>A		p.Asp1336Asn
c.3211+8C>T		
c.1151+93T>A		
c.598+36G>C		
c.957G>A		p.=
c.563-36C>T		
c.6875G>A		p.Arg2292His
c.1608A>G		p.=

VEP annotated somatic variants

c.1495_1496insAGCTCAGT	p.Phe499Ter
c.600G>T	p.=
c.401-100A>G	
c.1566-79A>G	
c.*71_*72insA	
c.2500+95T>A	
c.810-11C>T	
c.2232-64T>C	
c.2916-80C>A	
c.1771-85T>A	
c.1359+89G>A	
c.1249G>A	p.Gly417Ser
c.136+13C>G	
c.669G>A	p.=
c.183-11A>G	
c.646A>T	p.Arg216Trp
c.456+79A>C	
c.1974-88C>T	
c.834G>A	p.=
c.2516-51C>T	
c.2958G>A	p.=
c.3291+39C>T	
c.3220-21T>G	
c.1961-42C>T	
c.1438-32C>T	
c.48+74G>A	
c.2258-73T>C	
c.6785_6802delTAAGGGAGGAGG	p.Val2262_Glu2267del
c.1491-86C>G	
c.740+82G>A	
c.421G>A	p.Ala141Thr
c.1170A>G	p.=
c.32G>C	p.Cys11Ser
c.823-20A>G	
c.660+14G>A	
c.2433+111G>C	
c.2494C>T	p.=
c.1618-99T>A	
c.*7G>A	
c.509-56C>G	
c.792+39G>A	
c.2679T>G	p.=
c.618A>G	p.=
c.1083-59G>A	
c.1044+93C>A	
c.1411-48T>C	
c.171A>G	p.=
c.1296G>A	p.=
c.598+23T>G	
c.787+31G>C	
c.788-30T>C	
c.-13C>T	
c.1562-43G>A	
c.1459+67C>T	

VEP annotated somatic variants

c.621C>G	p.=
c.221A>T	p.Asn74Ile
c.618C>T	p.=
c.315+55G>A	
c.151-44A>G	
c.4634T>C	p.Val1545Ala
c.532+98A>T	
c.*61A>C	
c.-40-21G>T	
c.1248-30T>C	
c.511-24C>T	
c.614+84G>A	
c.969C>T	p.=
c.362T>C	p.Leu121Pro
c.239-54C>T	
c.1130-1125G>A	
c.925+63T>C	
c.137-97G>T	
c.1356A>C	p.=
c.3+84T>G	
c.560-70A>T	
c.253+34T>C	
c.1969-26A>G	
c.2777G>A	p.Ser926Asn
c.1358C>A	p.Ser453Tyr
c.203C>T	p.Thr68Ile
c.-89_-88insACTT	
c.80G>A	p.Gly27Glu
c.285C>T	p.=
c.337A>G	p.Lys113Glu
c.58-85G>A	
c.1434G>A	p.=
c.578T>G	p.Val193Gly
c.1251G>A	p.=
c.2598C>T	p.=
c.473C>T	p.Thr158Ile
c.406+2363T>A	
c.2111-46G>C	
c.5004-40G>A	

VEP annotated somatic variants

HGVSp_Short	Transcript_ID	Exon_Number	t_depth
	ENST00000356517		17
	ENST00000375234		16
	ENST00000393376		64
p.Y261Y	ENST00000269081	9/40	91
	ENST00000301732	33/33	28
	ENST00000284425		5
	ENST00000284425		28
	ENST00000340001		20
p.S1346S	ENST00000399410	28/31	113
	ENST00000205557		18
p.R1273R	ENST00000389817	31/39	180
	ENST00000289119	1/9	15
	ENST00000302538		34
	ENST00000436594		82
p.A114T	ENST00000600805	1/1	66
	ENST00000281182		28
	ENST00000420607		30
	ENST00000358776		46
	ENST00000366812		34
	ENST00000301452	1/6	25
	ENST00000256997		29
	ENST00000286353		66
	ENST00000258873		64
	ENST00000317447		24
	ENST00000399422		67
	ENST00000352511		82
p.P769S	ENST00000356955	20/23	94
	ENST00000310823		68
p.L940M	ENST00000373208	19/22	132
	ENST00000251582		58
	ENST00000389420		54
	ENST00000367996		157
	ENST00000381055		92
	ENST00000380548		85
	ENST00000367236		50
	ENST00000369716		30
p.K207K	ENST00000304129	7/19	176
	ENST00000395146		56
	ENST00000370460		27
	ENST00000397238		68
	ENST00000436302		24
p.L191L	ENST00000542281	4/4	71
	ENST00000367800		24
	ENST00000302312		54
p.S16S	ENST00000357847	1/6	40
	ENST00000527815		80
	ENST00000527815		150
p.V96I	ENST00000381129	3/6	86
p.S196S	ENST00000291582	5/14	227
	ENST00000291582		34
	ENST00000356239		28
	ENST00000356239		59
	ENST00000359579		51
	ENST00000295897		11

VEP annotated somatic variants

	ENST00000293350		22
	ENST00000329841		65
	ENST00000374391		81
	ENST00000258888	1/14	70
	ENST00000258888		65
	ENST00000356289		12
	ENST00000356289		22
p.P1447P	ENST00000341068	35/48	29
	ENST00000265709		83
	ENST00000520309		54
	ENST00000303941		29
	ENST00000357997		37
p.F1009L	ENST00000290943	16/16	30
	ENST00000376087		30
	ENST00000399451		20
p.Q268Q	ENST00000355594	10/14	39
	ENST00000267116		28
	ENST00000341048		16
	ENST00000374700		20
	ENST00000595053	1/1	47
	ENST00000357586		48
	ENST00000359032		43
	ENST00000261842		24
p.G356R	ENST00000261842	9/21	52
	ENST00000376236		43
	ENST00000373173		29
p.L28R	ENST00000337801	1/4	90
	ENST00000337801	1/4	58
	ENST00000383168		23
p.V640F	ENST00000357872	12/20	46
	ENST00000256682		9
p.M684V	ENST00000336498	21/23	139
	ENST00000453547		27
	ENST00000276211		26
p.E602E	ENST00000370028	16/23	21
	ENST00000368194		70
	ENST00000378378		120
	ENST00000361247		4
p.L367V	ENST00000338458	11/13	78
p.D181D	ENST00000375741	6/20	47
	ENST00000378909		81
p.G164G	ENST00000377275	6/6	72
	ENST00000481646		31
	ENST00000423738	1/2	65
p.R84G	ENST00000423738	2/2	52
	ENST00000423738		59
p.H2003H	ENST00000423738	2/2	27
	ENST00000412477		58
	ENST00000222250		84
	ENST00000222250		123
p.W195C	ENST00000216124	3/8	123
	ENST00000263207		74
	ENST00000420175		164
	ENST00000487349		20
	ENST00000325885		30



VEP annotated somatic variants

	ENST00000277458	1/6	28
	ENST00000347842		26
	ENST00000306729		71
	ENST00000342380		64
	ENST00000342380		59
	ENST00000361209		12
	ENST00000269197		77
	ENST00000284629		18
	ENST00000317868		32
	ENST00000358385		26
	ENST00000487903	30/30	47
p.A335A	ENST00000326735	11/29	151
p.A753A	ENST00000361216	16/23	68
	ENST00000368081		62
	ENST00000262429		56
	ENST00000356708		27
	ENST00000341514		27
	ENST00000536015		24
	ENST00000338821		101
	ENST00000338821		45
	ENST00000320211		26
	ENST00000395547		131
	ENST00000374521		20
	ENST00000276101		72
p.I522L	ENST00000367618	16/26	87
	ENST00000262320		40
p.R328H	ENST00000318683	3/3	246
	ENST00000321300		84
	ENST00000324385		3
p.R386Q	ENST00000542236	3/3	75
	ENST00000269980	1/9	29
	ENST00000223368		38
	ENST00000540052		18
	ENST00000449131		19
p.X922_splice	ENST00000281474		29
	ENST00000224337		96
p.N103S	ENST00000252677	1/2	42
	ENST00000345382		30
	ENST00000170150		51
	ENST00000306378		52
	ENST00000471181		25
	ENST00000471181		48
	ENST00000471181		33
	ENST00000544455		50
	ENST00000467963		30
p.Y288Y	ENST00000333229	9/42	81
	ENST00000446293		52
	ENST00000333511		46
	ENST00000333511		63
	ENST00000260723		14
p.G331D	ENST00000260723	11/16	58
	ENST00000342818		22
	ENST00000256015		14
p.T331T	ENST00000327705	11/11	35
	ENST00000343736		58

VEP annotated somatic variants

	ENST00000441508		29
p.D1424D	ENST00000374144	3/3	102
	ENST00000284694		60
	ENST00000378615		24
p.Q55R	ENST00000261318	2/5	30
	ENST00000524981		47
p.M184Dfs*14	ENST00000330828	2/2	58
	ENST00000399910		14
	ENST00000381365		55
	ENST00000319977	10/10	64
p.H371R	ENST00000590083	9/9	76
	ENST00000301246	1/4	138
p.D131E	ENST00000304661	2/2	74
p.T578T	ENST00000366534	11/22	90
	ENST00000371007		51
	ENST00000343433		32
	ENST00000326665		61
	ENST00000339142		28
	ENST00000388934	5/5	40
	ENST00000290390		15
	ENST00000245907		22
	ENST00000398965		25
	ENST00000223642		64
	ENST00000223642		36
	ENST00000380175	1/6	99
	ENST00000313164		24
	ENST00000451037		37
p.F215F	ENST00000309893	6/7	113
p.L816F	ENST00000398319	17/37	68
	ENST00000360228		21
	ENST00000371372		56
	ENST00000347598		17
	ENST00000479441		16
	ENST00000479441		165
	ENST00000324631		73
	ENST00000502583		45
	ENST00000361675		35
	ENST00000316448	1/9	19
	ENST00000378847	11/11	27
	ENST00000342666		33
	ENST00000378494		41
p.C283C	ENST00000446248	8/19	117
	ENST00000398776		19
	ENST00000271971		14
	ENST00000222125		65
	ENST00000403299		16
	ENST00000391898		136
	ENST00000427043	7/7	49
	ENST00000368078		18
	ENST00000377022		17
	ENST00000409235		66
p.L9L	ENST00000343849	1/2	104
p.Q431Q	ENST00000258214	7/9	153
	ENST00000349456		26
p.V245M	ENST00000292574	3/7	35

VEP annotated somatic variants

	ENST00000398545		25
	ENST00000422185	11/11	26
	ENST00000305866	28/28	29
	ENST00000329214		30
p.K190K	ENST00000369704	4/18	33
p.E675V	ENST00000388914	13/24	28
	ENST00000511166		58
	ENST00000370276		24
p.C52C	ENST00000392343	3/15	202
	ENST00000263102		29
	ENST00000445632		39
	ENST00000311925		11
	ENST00000292301		109
p.N797S	ENST00000287097	21/33	67
p.H203Pfs*5	ENST00000398214	4/6	91
	ENST00000368033		72
	ENST00000360141		33
p.K259T	ENST00000309424	3/3	120
	ENST00000322875		33
p.D172_P180del	ENST00000312648	3/4	45
	ENST00000394886		22
	ENST00000342711		138
	ENST00000437685		73
p.Q525R	ENST00000296129	6/9	98
	ENST00000507958		22
	ENST00000368911		63
	ENST00000425876		95
	ENST00000256443		27
p.P409P	ENST00000274695	12/16	123
	ENST00000379989		27
	ENST00000460006		106
	ENST00000376288		80
	ENST00000376288	1/2	77
	ENST00000401445		14
	ENST00000357396		33
	ENST00000399839		22
	ENST00000262608		17
p.R252H	ENST00000262608	7/18	78
	ENST00000336737		50
p.R184R	ENST00000331437	1/1	39
	ENST00000372927		33
p.R28L	ENST00000368328	1/3	62
	ENST00000397527		19
	ENST00000397527		30
	ENST00000337090		40
	ENST00000337090		19
p.S135N	ENST00000264982	6/18	47
	ENST00000556440		26
	ENST00000372838		23
	ENST00000317091		15
p.H402Y	ENST00000367429	9/22	62
p.Q1463Q	ENST00000003084	27/27	73
	ENST00000597853	3/5	78
p.A13A	ENST00000369258	1/23	37
	ENST00000432561		24

VEP annotated somatic variants

	ENST00000432561		84
p.A182V	ENST00000445067	8/13	71
	ENST00000306071	11/11	42
	ENST00000306243	1/1	134
	ENST00000324288		91
p.S211S	ENST00000536961	5/5	40
	ENST00000392521		152
p.H122Q	ENST00000453707	5/5	68
	ENST00000424301		45
	ENST00000346436		29
	ENST00000331433		52
	ENST00000401528	6/6	26
	ENST00000299663	1/6	27
	ENST00000369449	6/6	26
p.X103_splice	ENST00000374379		21
	ENST00000540338		34
	ENST00000320081		39
	ENST00000379510		4
	ENST00000356713		45
p.Y1572Y	ENST00000317147	34/49	67
	ENST00000289382		18
p.T453T	ENST00000537554	2/2	148
	ENST00000397461		20
	ENST00000361727		35
	ENST00000361727		67
	ENST00000373855		28
p.E1175E	ENST00000265136	12/13	55
	ENST00000323786		36
	ENST00000297135		49
	ENST00000353479		7
	ENST00000390654		70
	ENST00000370571		41
	ENST00000370571		26
p.A414T	ENST00000313669	14/14	80
	ENST00000372216		37
	ENST00000264828		28
	ENST00000361866		127
	ENST00000295550		37
p.L136L	ENST00000361682	4/6	120
	ENST00000411948		55
	ENST00000264613		4
	ENST00000568128		28
	ENST00000265085	10/10	20
p.I1052V	ENST00000367057	18/20	50
	ENST00000373631		23
	ENST00000348438		47
	ENST00000280527		17
	ENST00000280527		126
p.A259A	ENST00000433368	8/8	65
	ENST00000377340		14
	ENST00000268184		44
	ENST00000182096		19
	ENST00000419587	1/4	44
	ENST00000370287	3/5	17
	ENST00000217244		19

VEP annotated somatic variants

p.P1304P	ENST00000308508	4/10	38	
	ENST00000423479		43	
p.P1496P	ENST00000598234	31/50	53	
	ENST00000433211		81	
p.V141V	ENST00000325551	3/19	100	
p.L637L	ENST00000377833	15/67	64	
	ENST00000537177		25	
p.L1572P	ENST00000535468	24/26	92	
	ENST00000360264		44	
p.G978R	ENST00000360264	18/24	32	
	ENST00000410053		67	
p.A801A	ENST00000410053	20/20	89	
p.H443Y	ENST00000282251	8/18	58	
	ENST00000373691	2/2	19	
	ENST00000426130		28	
	ENST00000533558		23	
	ENST00000330436		20	
	ENST00000330436		43	
	ENST00000336411		7	
	p.P13L	ENST00000550308	2/13	5
		ENST00000003100		41
	p.P21P	ENST00000257215	2/20	110
ENST00000264161			58	
ENST00000260803			47	
p.H78H	ENST00000254337		27	
	ENST00000254337	3/13	121	
	ENST00000442544		38	
p.V339V	ENST00000378454	8/10	56	
	ENST00000339452	1/8	95	
p.V116V	ENST00000357067	4/6	20	
	ENST00000407793		61	
	ENST00000407793		15	
	ENST00000331314		25	
	ENST00000373624		17	
p.E224Q	ENST00000373624		21	
	ENST00000328194	4/23	68	
	ENST00000265036		134	
	ENST00000263196		55	
	ENST00000403951		42	
	ENST00000376223		128	
	ENST00000284690		83	
	ENST00000308736		66	
	ENST00000262415		63	
	ENST00000262415		21	
	ENST00000262415		111	
	ENST00000398557		54	
	ENST00000301180		52	
	ENST00000319212	17/17	17	
	ENST00000366636	10/10	27	
	ENST00000366633		55	
	ENST00000220812		40	
ENST00000376104		28		
ENST00000374360		60		
ENST00000372391		65		
ENST00000357338		20		

VEP annotated somatic variants

	ENST00000339686		18
	ENST00000399180		28
	ENST00000328843		30
	ENST00000351747		46
	ENST00000430092		37
	ENST00000430092		29
	ENST00000430092		21
	ENST00000430092		59
	ENST00000430092		37
	ENST00000389840		18
	ENST00000359357		10
	ENST00000262442		15
	ENST00000296218		66
	ENST00000370665		84
	ENST00000324109		25
	ENST00000256935		71
	ENST00000266037		18
p.P1146P	ENST00000398665	25/28	163
p.E351Q	ENST00000393092	10/11	133
	ENST00000355526		68
	ENST00000370109		25
	ENST00000324472		34
	ENST00000294485		48
	ENST00000395209		30
	ENST00000395209		44
	ENST00000395209		47
	ENST00000321322		40
	ENST00000257189		25
p.P1041P	ENST00000359747	15/15	63
p.C10C	ENST00000359747	1/15	110
	ENST00000379802		55
	ENST00000244364		24
	ENST00000310850		58
	ENST00000344537		86
	ENST00000510708		44
p.R93R	ENST00000324432	5/12	73
	ENST00000334679	2/2	25
p.S144A	ENST00000279488	2/3	110
	ENST00000324972		24
	ENST00000398093		16
	ENST00000431635	1/10	28
p.R26L	ENST00000495186	2/5	29
p.T341I	ENST00000374893	9/19	101
	ENST00000304546		67
	ENST00000392692		30
	ENST00000423192		26
	ENST00000318130		28
	ENST00000379375		67
	ENST00000377211		23
	ENST00000322349		22
	ENST00000217182		45
	ENST00000379715		4
	ENST00000331493		64
	ENST00000450662		68
	ENST00000440314		27

VEP annotated somatic variants

p.R124R	ENST00000295824	1/13	91	
	ENST00000268206		30	
	ENST00000426333		62	
p.H33H	ENST00000253039	2/12	39	
p.T503T	ENST00000308167	9/9	29	
p.I139I	ENST00000402918	3/3	160	
p.I503I	ENST00000402918	3/3	153	
p.F406F	ENST00000402918	3/3	258	
	ENST00000252034		13	
	ENST00000354666		26	
p.S345T	ENST00000477853	10/23	73	
	ENST00000220853		29	
	ENST00000220853		20	
p.S575P	ENST00000334192	16/23	56	
	ENST00000334192		36	
	ENST00000334192		36	
p.A163A	ENST00000295206	1/2	61	
	ENST00000373203		113	
	ENST00000261488		27	
	ENST00000371207		52	
	ENST00000334696		24	
	ENST00000389561		21	
p.H139R	ENST00000392957	4/9	35	
	ENST00000366837		124	
p.S412S	ENST00000521400	13/19	27	
	ENST00000433197		51	
	ENST00000257934		76	
	ENST00000389567		45	
p.G590R	ENST00000557943	6/12	56	
p.T171I	ENST00000354232	4/5	127	
p.T245M	ENST00000292147	1/7	42	
p.A2A	ENST00000370331		26	
	ENST00000538904		20	
	ENST00000538904		49	
	ENST00000301607		65	
	ENST00000301607		223	
p.S1050S	ENST00000409018	22/22	9	
p.E589K	ENST00000366548	13/16	117	
	ENST00000381295		21	
	ENST00000367075		15	
p.D1260E	ENST00000360256	14/26	37	
	ENST00000360256		45	
p.V374I	ENST00000218099	8/8	33	
	ENST00000374900		17	
	ENST00000278840		49	
	ENST00000278829		46	
	ENST00000407106		65	
	ENST00000216214		7/10	64
p.R239H	ENST00000370784	7/10	11	
	ENST00000370784		11	
	ENST00000391440		1/1	61
	ENST00000391440		1/1	27
	ENST00000395297		46	
p.L116L	ENST00000368557	3/4	78	
	ENST00000356467		72	

VEP annotated somatic variants

	ENST00000329203	1/1	49
	ENST00000265018		40
	ENST00000327337		26
	ENST00000324675		9
	ENST00000361361		62
	ENST00000374362	1/30	33
	ENST00000361738		82
p.A1000A	ENST00000259698	21/23	50
p.A187V	ENST00000283357	5/10	47
	ENST00000389301		29
	ENST00000229769		27
	ENST00000229769		64
p.P129P	ENST00000229769	2/10	73
	ENST00000536681	12/12	37
	ENST00000264042		58
	ENST00000264042		159
p.G1217G	ENST00000306749	22/43	81
	ENST00000306749		26
	ENST00000306749		57
	ENST00000306749		28
p.P155L	ENST00000404922	2/18	126
p.H1966D	ENST00000600128	47/64	90
	ENST00000434748		35
	ENST00000478939	3/3	98
	ENST00000432825		41
	ENST00000432825		26
	ENST00000292852		12
	ENST00000296438		10
	ENST00000331272		18
	ENST00000324852		36
p.A384A	ENST00000594202	16/29	85
p.G388R	ENST00000292408	9/18	106
	ENST00000336098	9/9	82
	ENST00000257209		98
p.N984N	ENST00000257209	17/25	115
	ENST00000257209		58
	ENST00000333129		64
	ENST00000337488		17
p.L198L	ENST00000252037	6/9	26
	ENST00000424785		63
p.T429M	ENST00000369850	9/48	30
	ENST00000490882		71
	ENST00000261937		109
	ENST00000319653		8
	ENST00000319653		70
p.S147S	ENST00000367755	4/9	59
p.T58_T59del	ENST00000263773	1/17	30
	ENST00000263773		33
	ENST00000297267		45
p.A697A	ENST00000297267	11/23	252
p.Y428Y	ENST00000259806	2/2	104
	ENST00000373060		25
	ENST00000373247	15/15	20
p.H649H	ENST00000264895	17/74	63
	ENST00000264895		10



VEP annotated somatic variants

p.D2813D	ENST00000264895	56/74	14		
	ENST00000264895		51		
	ENST00000264895		29		
p.I1329I	ENST00000329798	1/8	147		
	ENST00000357447		63		
	ENST00000350221		17		
p.H529H	ENST00000306100	18/19	60		
	ENST00000319725		127		
	ENST00000310160		47		
	ENST00000318336		3/3	89	
	ENST00000292079		175		
	ENST00000296137		19		
	ENST00000282538		18		
	ENST00000314167		35		
	ENST00000314167		24		
	ENST00000261304		44		
	ENST00000261304		85		
	ENST00000588479		143		
	ENST00000297107		94		
	p.Q474K		ENST00000324589	15/16	152
	p.Y53D		ENST00000252318	1/11	40
p.V515F	ENST00000252318	9/11	101		
p.E352E	ENST00000269209	4/6	164		
p.A490V	ENST00000269209	4/6	109		
	ENST00000269209	6/6	56		
p.P220P	ENST00000373387	1/28	8		
	ENST00000343435		23		
	ENST00000343435		35		
	ENST00000343435	7/12	79		
	p.F365F	ENST00000400723	12/14	141	
		ENST00000379597		71	
		ENST00000238018		67	
		ENST00000342560		41	
		ENST00000249598		37	
		ENST00000308317		29	
ENST00000486715		47			
ENST00000233838		45			
p.A480P	ENST00000334928	3/4	38		
p.A517V	ENST00000334928	3/4	144		
p.R469C	ENST00000301671	9/9	33		
	ENST00000367419		30		
p.V97I	ENST00000262460	4/7	82		
p.C884C	ENST00000205061	19/27	68		
	ENST00000205061		117		
	ENST00000262366		25		
	ENST00000373365	1/6	83		
p.I85V	ENST00000372617	3/9	41		
	ENST00000372617		132		
	ENST00000360814		31		
	ENST00000287275		36		
	ENST00000282570		56		
p.D103D	ENST00000248996	2/3	292		
p.R37H	ENST00000329517	3/8	51		
p.S151S	ENST00000226413	1/3	72		
p.L1014L	ENST00000204726	15/24	153		

VEP annotated somatic variants

	ENST00000329125	2/2	38
p.T416T	ENST00000377047	7/9	83
	ENST00000230036		82
	ENST00000316715		17
p.R7R	ENST00000264718	1/14	25
p.V124L	ENST00000298110	1/1	63
p.A218P	ENST00000607359	3/16	81
	ENST00000392607	2/7	16
	ENST00000392607		136
	ENST00000392607		36
	ENST00000561100		29
p.H475H	ENST00000529750	13/20	89
	ENST00000358160		25
	ENST00000406902		11
	ENST00000406902		13
	ENST00000406902		69
	ENST00000381486		15
	ENST00000518783		23
	ENST00000296526		23
	ENST00000264357		32
p.L597L	ENST00000357716	8/10	119
	ENST00000253458		26
p.T616M	ENST00000373818	13/17	101
	ENST00000340438	1/1	28
	ENST00000398606		203
	ENST00000216465		101
	ENST00000360803		18
	ENST00000360803	17/17	42
	ENST00000218006		41
	ENST00000389617	7/7	122
	ENST00000261208		59
	ENST00000598398		11
	ENST00000080059		39
	ENST00000080059		111
	ENST00000441542		23
	ENST00000398153		79
p.P175P	ENST00000424830	4/5	27
	ENST00000366582		115
	ENST00000366582		36
p.T614T	ENST00000366582	15/45	59
p.V632A	ENST00000297440	9/13	178
	ENST00000399332		8
	ENST00000399332		21
	ENST00000348459		22
	ENST00000348459		119
	ENST00000232854		84
	ENST00000443617		9
p.H63D	ENST00000357618	2/6	82
p.E336E	ENST00000222390	8/18	74
	ENST00000441594		105
	ENST00000330710		75
p.D13D	ENST00000253410	1/3	70
	ENST00000304043		14
	ENST00000359985	1/1	44
	ENST00000377831		25

VEP annotated somatic variants

p.A16A	ENST00000377364	1/1	101
	ENST00000354624		22
p.L207M	ENST00000418931	3/6	92
	ENST00000399120		58
	ENST00000310053		39
p.V202V	ENST00000278715	9/14	78
	ENST00000216106		32
p.G165V	ENST00000216106	5/11	35
	ENST00000257555		38
	ENST00000392006		49
p.L462L	ENST00000397668	15/23	46
	ENST00000262626		133
p.G172G	ENST00000299238	1/1	122
	ENST00000592984		13
p.P4P	ENST00000287907	1/2	209
p.S703S	ENST00000342160	22/83	32
p.R1996H	ENST00000342160	44/83	41
p.V128I	ENST00000407780	3/7	72
	ENST00000407780		17
	ENST00000407780	7/7	26
	ENST00000330062		26
	ENST00000299518		62
p.S179T	ENST00000368131	4/11	87
p.F10V	ENST00000342136	2/9	72
	ENST00000268035		16
	ENST00000356956		25
	ENST00000356956		93
	ENST00000356956		98
	ENST00000270642		42
	ENST00000370903	8/20	85
p.Y857Y	ENST00000370903	14/20	77
	ENST00000370903		25
	ENST00000393775		33
	ENST00000393775	7/7	97
p.E333D	ENST00000393775		27
	ENST00000513874		61
	ENST00000533871		10
p.L1023L	ENST00000374647	28/37	87
	ENST00000295981		72
p.S177Y	ENST00000316649	4/7	88
	ENST00000270800		116
	ENST00000379959	8/8	91
	ENST00000563197	7/7	64
	ENST00000397262	2/2	114
p.A550A	ENST00000397270		27
	ENST00000302850	8/22	89
	ENST00000302850		12
	ENST00000404767		29
	ENST00000404767		27
	ENST00000311234		5
	ENST00000274364		32
	ENST00000361170		18
	ENST00000538872		86
ENST00000357234		66	
p.V319V	ENST00000244314	2/2	156

VEP annotated somatic variants

	ENST00000369304		57
	ENST00000369304		171
	ENST00000397033		46
	ENST00000264741		125
	ENST00000266041		6
p.V130V	ENST00000266041	4/24	110
	ENST00000266041		28
	ENST00000373298		23
	ENST00000429204		132
	ENST00000381340		54
	ENST00000381340		17
	ENST00000374316		141
p.I243I	ENST00000278071	3/3	72
	ENST00000381318		58
	ENST00000381318		36
	ENST00000226319		20
	ENST00000218343		19
	ENST00000298622		84
	ENST00000341776		24
	ENST00000341776		98
p.P402P	ENST00000341776	7/18	97
	ENST00000458427	1/1	20
	ENST00000382303	16/16	110
	ENST00000371153		57
p.S526S	ENST00000371153	3/10	150
p.H927H	ENST00000371153	9/10	99
p.L78L	ENST00000367411	3/11	71
p.P189R	ENST00000221444	2/2	51
	ENST00000490337		30
	ENST00000399881		49
	ENST00000476647		44
	ENST00000228495		45
	ENST00000405872	2/2	30
	ENST00000314358		14
	ENST00000372396		16
	ENST00000159111		53
	ENST00000317961		15
p.T726K	ENST00000377967	17/29	55
	ENST00000397560		69
p.R538R	ENST00000397560	12/20	55
p.R644S	ENST00000397560	15/20	49
p.N11N	ENST00000251993	1/10	100
	ENST00000264501		13
p.S689A	ENST00000251691	12/34	150
	ENST00000297591		13
p.A1162A	ENST00000392413	4/4	109
	ENST00000368847		21
	ENST00000367350		38
p.Y90Y	ENST00000247986	2/15	61
	ENST00000389916		29
GTGTTGTTAACAT	ENST00000498729		22
	ENST00000320785		29
	ENST00000260753		14
	ENST00000361580		33
	ENST00000379562		54

VEP annotated somatic variants

p.T216T	ENST00000285407	3/4	78
p.V13V	ENST00000514860	2/15	39
	ENST00000273963		23
	ENST00000356986		23
	ENST00000262189		86
	ENST00000304613		141
p.T312T	ENST00000333479		108
	ENST00000327442	7/10	129
	ENST00000290158		27
	ENST00000327813		45
	ENST00000269576		27
	ENST00000225899		148
	ENST00000328119	7/7	10
	ENST00000397911	1/1	115
	ENST00000397907	1/1	22
	p.T110T	ENST00000391618	1/1
ENST00000216237			103
ENST00000421865			19
ENST00000421865			48
ENST00000230538			52
ENST00000230538			71
ENST00000258341			31
ENST00000258341			11
ENST00000258341			43
ENST00000264144		1/23	20
ENST00000543571		4/8	83
ENST00000333881		1/1	19
ENST00000371688			2
ENST00000344642			50
ENST00000308330		18	
ENST00000222725		93	
ENST00000291759		73	
ENST00000336180		26	
p.R426H	ENST00000585527	1/1	158
	ENST00000267102		15
	ENST00000465261		67
	ENST00000231368		21
p.A14A	ENST00000398246		16
	ENST00000371628	1/11	54
	ENST00000371628		24
	ENST00000261921		122
	ENST00000312675		31
	ENST00000354454		26
	ENST00000389484		132
p.R188W	ENST00000294304		53
	ENST00000402859	5/6	149
	ENST00000402859		32
	ENST00000500728		78
	ENST00000298288		30
p.G7V	ENST00000374160	1/2	106
	ENST00000360375	19/19	38
	ENST00000393217		23
p.L92P	ENST00000265245	3/14	34
p.R238Q	ENST00000544216	5/10	84
	ENST00000502781	4/4	34

VEP annotated somatic variants

	ENST00000397728		44
	ENST00000389194		20
	ENST00000336930		27
	ENST00000330743		59
	ENST00000368908	1/3	23
	ENST00000370220		221
	ENST00000370220	1/4	39
	ENST00000406869		36
	ENST00000296509		68
	ENST00000356661		59
p.G296G	ENST00000393900	3/3	137
	ENST00000378982	1/1	22
	ENST00000285879		54
p.P303P	ENST00000247452	3/3	40
	ENST00000375068		25
	ENST00000317446		18
p.C731C	ENST00000432680	5/5	75
	ENST00000368468		73
p.R415R	ENST00000261483	8/22	82
p.Q243P	ENST00000285599	6/19	179
p.P865L	ENST00000324096	5/7	193
p.A192T	ENST00000338883	4/29	82
	ENST00000361357		38
p.P315P	ENST00000591517	13/32	61
	ENST00000347699		25
	ENST00000446044		47
	ENST00000251472		157
p.D337D	ENST00000251472	10/26	92
	ENST00000403625	1/29	70
p.R164S	ENST00000537548	4/11	97
	ENST00000265594		9
	ENST00000397708		68
p.V143V	ENST00000434837	4/17	88
	ENST00000369393		13
	ENST00000369393		13
p.I326I	ENST00000453960	3/3	105
	ENST00000324817		35
	ENST00000491289	2/5	72
	ENST00000312865		46
p.C140S	ENST00000315588	3/4	62
	ENST00000162023		17
	ENST00000356575		27
	ENST00000269202		71
	ENST00000295408	19/19	51
	ENST00000298717		72
p.P222P	ENST00000375258	6/10	40
	ENST00000398558		149
p.P568P	ENST00000428789	12/16	285
	ENST00000428789		56
p.F452F	ENST00000428789	10/16	228
p.L115F	ENST00000306010	3/5	86
	ENST00000441493		36
	ENST00000441493		33
	ENST00000441493		75
	ENST00000317552		37

VEP annotated somatic variants

	ENST00000355280		84
	ENST00000355280		175
	ENST00000228506		22
	ENST00000366624		50
	ENST00000252674		154
	ENST00000368808		73
	ENST00000252971		37
p.K154Q	ENST00000357066	4/5	151
	ENST00000355610		32
p.T473I	ENST00000355610	12/17	44
	ENST00000379535		29
	ENST00000278949		48
	ENST00000323929		25
p.Y306D	ENST00000421030	3/24	102
p.H618R	ENST00000421030	10/24	91
p.V509A	ENST00000421030	7/24	145
	ENST00000290208		150
	ENST00000371443		17
	ENST00000342071		193
	ENST00000053468		59
	ENST00000423302		68
	ENST00000233146		16
	ENST00000261507		37
p.L2303L	ENST00000361445	49/58	65
p.A1048A	ENST00000366577	29/33	76
	ENST00000366577		111
	ENST00000366577		53
	ENST00000366577		77
	ENST00000457717		15
	ENST00000397910		47
p.A2533A	ENST00000397910	1/84	114
	ENST00000454784	4/84	54
	ENST00000454784		74
p.P2554P	ENST00000441003	42/49	132
	ENST00000301012		34
p.T2451T	ENST00000217939	7/7	60
p.A41A	ENST00000409745	3/3	155
	ENST00000545968		84
p.A1241T	ENST00000396324	29/42	160
	ENST00000273353		76
p.K365K	ENST00000355349	12/40	38
	ENST00000355349		10
	ENST00000355349		65
	ENST00000216181		21
p.T1186T	ENST00000360304	19/34	46
	ENST00000205890		22
	ENST00000335473		50
	ENST00000431794		18
	ENST00000338257		55
	ENST00000399231		25
	ENST00000595618		59
	ENST00000241651	1/3	140
p.I378I	ENST00000358913	5/20	62
	ENST00000278836		55
	ENST00000472487		21

VEP annotated somatic variants

	ENST00000361671		28
p.P304P	ENST00000371753	2/5	27
	ENST00000312251		23
p.A310T	ENST00000253719	7/9	66
	ENST00000357814		45
	ENST00000281513		101
p.H923R	ENST00000422280	21/21	64
	ENST00000422280		58
	ENST00000422280		25
	ENST00000422280		50
p.P92S	ENST00000252575	3/15	164
	ENST00000315579		27
	ENST00000534548		22
	ENST00000240423		50
	ENST00000374796		73
	ENST00000268712		15
p.A430A	ENST00000367993	13/15	71
	ENST00000397345		13
	ENST00000397345		69
	ENST00000397345		79
p.T354T	ENST00000382882	8/11	26
p.D170D	ENST00000366988	4/4	32
	ENST00000366988		52
p.E332A	ENST00000334785	9/13	17
	ENST00000226574		46
	ENST00000369966		20
	ENST00000326172		13
p.H104H	ENST00000340650	1/1	59
	ENST00000427025		31
	ENST00000264187		38
	ENST00000382041		19
	ENST00000374399		25
p.R213G	ENST00000311946	5/6	30
	ENST00000282516		30
	ENST00000216121		96
	ENST00000345716		76
p.S62T	ENST00000258829	2/2	87
	ENST00000358741		17
	ENST00000404025		25
	ENST00000390649		26
p.L985L	ENST00000390649	11/15	92
	ENST00000390649		52
	ENST00000332836		45
	ENST00000330579		77
	ENST00000297990		86
	ENST00000416614		197
	ENST00000329276	12/12	32
	ENST00000361897		35
p.D298E	ENST00000297494	8/27	224
	ENST00000297494		28
	ENST00000277541		15
	ENST00000277541		27
p.V1296V	ENST00000289547	20/20	37
p.I145L	ENST00000277942	4/4	61
p.S241R	ENST00000359791	6/9	154



VEP annotated somatic variants

	ENST00000265634		17
	ENST00000312521	1/8	24
	ENST00000367980		18
	ENST00000354366		28
p.N1235N	ENST00000439151	5/23	75
	ENST00000264670		60
	ENST00000422318		82
	ENST00000301411		78
p.R235C	ENST00000355451	4/6	74
	ENST00000379161		20
p.I139I	ENST00000413272	5/19	30
	ENST00000229179		33
	ENST00000359428		14
	ENST00000340413	1/8	111
	ENST00000347635	8/8	57
	ENST00000264883		18
	ENST00000264883		81
	ENST00000573584		29
	ENST00000573584		46
	ENST00000395065		44
	ENST00000537026		21
	ENST00000537026		71
	ENST00000537026		72
	ENST00000336868		44
	ENST00000479950		15
p.Y628Y	ENST00000404537	5/21	87
	ENST00000329197	10/10	136
	ENST00000323060		21
	ENST00000316368	1/1	13
p.R125Q	ENST00000323404	1/1	70
p.L182L	ENST00000314721	1/1	55
p.F15I	ENST00000319760	1/1	44
	ENST00000314634		24
p.L219L	ENST00000380224	1/1	82
p.S190S	ENST00000317078	1/1	69
p.I299V	ENST00000304418	1/1	80
p.G253G	ENST00000356526	1/1	62
p.I210I	ENST00000301532	1/1	66
	ENST00000313033	1/1	25
	ENST00000313733		59
	ENST00000361711		57
p.S285S	ENST00000361711	6/6	201
	ENST00000274276		16
	ENST00000307050		28
p.S482dup	ENST00000285848	10/10	59
p.N178T	ENST00000374519	1/1	107
p.I238I	ENST00000331483	5/11	83
p.K229E	ENST00000372858	5/16	53
	ENST00000320580		40
	ENST00000289619		36
	ENST00000338448		70
	ENST00000307534		25
p.L204L	ENST00000307534	1/7	38
p.A547V	ENST00000378466	13/19	163
	ENST00000238714		18

VEP annotated somatic variants

p.R28S	ENST00000371279	2/2	178
p.R242R	ENST00000334956	6/13	143
	ENST00000406477		75
p.I73T	ENST00000429538	1/1	45
	ENST00000527246		79
p.G1121V	ENST00000361849	5/5	17
	ENST00000544246		60
p.V178I	ENST00000333891	5/8	25
	ENST00000367384		67
p.R23W	ENST00000359568	1/3	119
	ENST00000311180		81
p.I735I	ENST00000435564	26/31	36
	ENST00000334456		53
p.L84L	ENST00000371447	1/22	99
	ENST00000257290		9
p.P1084P	ENST00000261799	23/23	27
	ENST00000261799		35
p.S1542T	ENST00000376215	7/7	70
	ENST00000396410		74
p.P3P	ENST00000396410	3/24	39
	ENST00000370215		47
p.P440P	ENST00000560626	12/24	96
	ENST00000338302		38
p.L435F	ENST00000338302	14/15	123
	ENST00000244137		43
p.R394Q	ENST00000244137	15/15	48
	ENST00000381125		52
p.A127A	ENST00000381125	3/5	48
	ENST00000354764		24
p.T670T	ENST00000373316	1/7	32
	ENST00000340880		56
p.N126D	ENST00000290722	22/31	38
	ENST00000359246		18
p.A44A	ENST00000275034	2/2	16
	ENST00000373542		17
p.G390G	ENST00000361417	4/18	58
	ENST00000416188		82
p.T670T	ENST00000369738	6/6	61
	ENST00000370812		20
p.N126D	ENST00000357637	2/2	47
	ENST00000592983		88
p.A44A	ENST00000447110	2/6	49
	ENST00000264380		13
p.G390G	ENST00000360612	2/2	130
	ENST00000332271		82
p.G390G	ENST00000361478	1/2	80
	ENST00000529079		26
p.G390G	ENST00000371117	1/2	40
	ENST00000070846		18
p.G390G	ENST00000274793	2/2	26
	ENST00000220809		65
p.G390G	ENST00000327757	1/2	21
	ENST00000371380		38
p.G390G	ENST00000371380	1/2	45
	ENST00000371380		45

VEP annotated somatic variants

	ENST00000371380		23
p.T1777I	ENST00000371380	23/32	141
	ENST00000359376		19
	ENST00000449969		73
	ENST00000449969		24
p.H1459R	ENST00000322810	30/32	173
p.A263A	ENST00000322810	5/32	193
	ENST00000322810	32/32	32
p.N2888N	ENST00000322810	32/32	179
p.A4624A	ENST00000322810	32/32	108
p.A3846A	ENST00000322810	32/32	157
	ENST00000537245		19
	ENST00000329153		12
	ENST00000329153		19
	ENST00000329153		71
	ENST00000379410		115
	ENST00000334770		27
	ENST00000315392		16
	ENST00000449103		33
	ENST00000369239		14
p.T490M	ENST00000394571	7/8	81
	ENST00000216180		67
p.P707P	ENST00000414982	19/34	209
	ENST00000548729		20
	ENST00000301788		14
	ENST00000377603		22
	ENST00000377603		24
	ENST00000379747		24
p.K182T	ENST00000465342	2/2	46
p.P12A	ENST00000287820	1/7	81
p.H477H	ENST00000287820	7/7	80
	ENST00000412327		18
p.P43_E44dup	ENST00000308249	1/7	147
	ENST00000367999		88
	ENST00000330261		46
	ENST00000455566	7/7	105
	ENST00000264977		11
	ENST00000218224		21
	ENST00000264808		40
	ENST00000339711		29
	ENST00000379341		55
	ENST00000379341		35
	ENST00000379341		35
	ENST00000369110		72
	ENST00000288368		37
	ENST00000311862		31
	ENST00000314970	3/14	24
	ENST00000394729		69
	ENST00000394729		33
	ENST00000378567		132
	ENST00000324366		25
p.P182L	ENST00000419421	3/3	114
	ENST00000403581		23
	ENST00000352766		99
	ENST00000268281		35

VEP annotated somatic variants

	ENST00000376718		62
	ENST00000406487		94
	ENST00000406070		80
	ENST00000270077		121
	ENST00000356126		55
	ENST00000331573		35
	ENST00000317615	1/7	99
	ENST00000407693		29
	ENST00000254667		96
	ENST00000359947		9
	ENST00000474889		15
	ENST00000368213		48
p.P805P	ENST00000389418	16/23	323
	ENST00000293922		20
	ENST00000426105		21
	ENST00000426105		17
	ENST00000426105		82
	ENST00000426105		68
	ENST00000302000		26
	ENST00000240651	1/12	26
	ENST00000325874		76
p.V19A	ENST00000264601	2/6	59
	ENST00000243662	1/3	71
	ENST00000276066		47
	ENST00000262477		39
p.R474R	ENST00000399409	14/16	89
	ENST00000306897		149
	ENST00000487270		25
p.A725A	ENST00000399583	10/15	106
	ENST00000251849		112
	ENST00000515799		15
	ENST00000290101		34
	ENST00000449771		118
	ENST00000298854		27
p.R28H	ENST00000357043	1/6	72
p.R793R	ENST00000377604	21/24	87
	ENST00000267229		110
	ENST00000265271		20
	ENST00000339877		47
p.P520P	ENST00000377966	13/21	68
	ENST00000221452		55
	ENST00000258062		14
p.L14*	ENST00000295755	1/3	36
	ENST00000354373	1/2	46
p.T541T	ENST00000296292	13/13	29
	ENST00000296292		59
	ENST00000334133		93
	ENST00000393423	1/19	104
	ENST00000366565		37
	ENST00000538017	1/7	96
p.T777T	ENST00000332512	8/8	31
	ENST00000283632		58
	ENST00000283632	1/9	50
	ENST00000221486		37
p.V41V	ENST00000367559	2/7	108

VEP annotated somatic variants

	ENST00000587250	5/5	24
	ENST00000347063		28
	ENST00000373456		39
	ENST00000399398	3/3	19
	ENST00000464233		37
	ENST00000464233		52
p.T431N	ENST00000315872	10/33	77
	ENST00000371079		67
	ENST00000368508		37
	ENST00000434291		59
	ENST00000422931		34
	ENST00000472454		51
	ENST00000518559		74
	ENST00000428747		26
	ENST00000005386		91
	ENST00000331302		124
	ENST00000222247		68
	ENST00000422514	1/5	18
	ENST00000422514	1/5	18
p.P37P	ENST00000216146	2/10	42
p.L164L	ENST00000316084	5/7	35
	ENST00000503859		25
	ENST00000306801		25
p.T842T	ENST00000306801	22/34	252
	ENST00000340648		59
p.A201A	ENST00000340648	7/16	100
p.V194V	ENST00000258955	4/9	110
	ENST00000377921		35
p.V471A	ENST00000377819	3/9	85
	ENST00000319449		45
p.P688P	ENST00000319449	18/18	128
	ENST00000388768		14
	ENST00000481739		85
p.I1152I	ENST00000359596	26/106	126
	ENST00000359596		81
p.Y2128Y	ENST00000359596	39/106	65
	ENST00000359596		57
	ENST00000366574		68
	ENST00000366574		33
	ENST00000389232		77
	ENST00000382533		4
	ENST00000371872		25
	ENST00000246868		47
p.T1853T	ENST00000380817	40/41	162
	ENST00000256190		46
	ENST00000360565		26
p.G126G	ENST00000302631	4/9	70
	ENST00000266214		59
	ENST00000349847		23
p.H61R	ENST00000297029	1/16	62
	ENST00000281142		29
	ENST00000281142		46
	ENST00000369020		102
	ENST00000283254		46
p.W1150R	ENST00000409672	19/27	40

VEP annotated somatic variants

	ENST00000409672		17
	ENST00000272091		19
	ENST00000404826		26
	ENST00000350697		104
p.R20W	ENST00000402034	2/12	94
	ENST00000308284		37
p.H489Q	ENST00000336714	13/20	59
	ENST00000280551		39
	ENST00000370345		2
	ENST00000370345		13
p.V89A	ENST00000370345	4/26	109
	ENST00000370345		23
	ENST00000375807		19
p.Y244D	ENST00000269389	5/5	49
	ENST00000333360		45
	ENST00000263686		41
	ENST00000265362		31
	ENST00000265362		47
	ENST00000002829		65
	ENST00000396426		47
	ENST00000467132		31
	ENST00000357949		41
	ENST00000267197		30
	ENST00000267197		34
	ENST00000402198		21
p.G37G	ENST00000248933	2/17	191
	ENST00000302516		54
	ENST00000367569	1/1	59
	ENST00000373202		33
	ENST00000268989		21
	ENST00000268989		27
	ENST00000248929		117
	ENST00000482504		41
p.A534A	ENST00000355946	14/14	214
	ENST00000293441		35
	ENST00000293441		103
	ENST00000297261		63
p.A986T	ENST00000380913	6/10	159
	ENST00000291707		37
	ENST00000270162		24
	ENST00000290399		281
	ENST00000366630		7
	ENST00000368043		73
p.T32T	ENST00000273861	1/3	103
p.I114V	ENST00000273905	1/6	86
	ENST00000264930		23
	ENST00000194130		65
p.S33P	ENST00000587091	1/6	29
	ENST00000221742		19
	ENST00000221742		56
p.L95L	ENST00000245407	1/10	52
	ENST00000353963		18
p.H165H	ENST00000532405	6/17	204
	ENST00000416240		10
	ENST00000377095		17

VEP annotated somatic variants

	ENST00000377095		36
	ENST00000361193		28
	ENST00000394573		60
	ENST00000347644		29
	ENST00000373371		38
	ENST00000378509		52
	ENST00000360388		40
	ENST00000366618		8
	ENST00000308074		79
	ENST00000420502		56
	ENST00000570101		28
p.V552V	ENST00000024061	6/8	153
	ENST00000485713		27
	ENST00000222248		72
	ENST00000371900		23
	ENST00000335875		32
	ENST00000401766		125
	ENST00000360584		45
	ENST00000316902		73
p.S382S	ENST00000316902	9/11	56
p.A48A	ENST00000328306	1/17	52
	ENST00000310926		5
	ENST00000371122		27
	ENST00000283131		8
	ENST00000357450		33
p.Q42Q	ENST00000361956	2/12	84
	ENST00000358743		44
	ENST00000388985		42
	ENST00000371247		12
	ENST00000507866		85
p.N189N	ENST00000336338	5/49	73
p.P464P	ENST00000336338	11/49	70
p.P80P	ENST00000370498	2/2	40
	ENST00000377470		28
	ENST00000312358		35
p.E2389G	ENST00000312358	30/41	34
p.V200L	ENST00000301244	7/7	39
p.P4P	ENST00000373109	1/11	35
	ENST00000320955		28
	ENST00000320955		57
p.P1535A	ENST00000262518	25/34	176
	ENST00000378016	87/109	87
	ENST00000378016		160
	ENST00000378016	90/109	105
	ENST00000544814		16
	ENST00000393640	6/6	43
	ENST00000225276		17
	ENST00000225276		137
	ENST00000335791		4
p.H1235H	ENST00000388887	34/69	125
	ENST00000394070		23
p.N127N	ENST00000265404	5/9	40
	ENST00000290607		19
	ENST00000392320		66
	ENST00000293328		7

VEP annotated somatic variants

	ENST00000524300		19
p.A218A	ENST00000316900	5/7	36
	ENST00000392359	1/5	47
	ENST00000275764		29
	ENST00000447404		18
	ENST00000369795		125
	ENST00000249344		55
	ENST00000321680		23
p.S204G	ENST00000075503	6/11	24
	ENST00000248600		24
	ENST00000362032	3/3	31
	ENST00000332859		110
p.V55M	ENST00000326669	1/1	101
	ENST00000599117		11
	ENST00000599117		38
	ENST00000375472		39
	ENST00000318950		27
p.A1127A	ENST00000245934	26/27	48
	ENST00000432424		13
p.L133L	ENST00000358025	6/116	53
	ENST00000358025		59
p.D950D	ENST00000355585	20/27	121
p.P566L	ENST00000336292	5/5	97
p.G154A	ENST00000307142	3/5	80
p.V480V	ENST00000367456	4/8	52
	ENST00000367456		50
p.G514E	ENST00000313288	6/16	101
	ENST00000372907		45
	ENST00000367066		39
p.S68S	ENST00000367066	5/10	89
	ENST00000335968		119
	ENST00000335968		25
p.V256I	ENST00000287652	3/8	74
	ENST00000287652		50
p.T113M	ENST00000337137	3/13	117
	ENST00000377636		23
p.I718V	ENST00000446818	23/24	127
	ENST00000273980		18
	ENST00000335385		30
p.G68A	ENST00000372780	3/3	39
p.L496S	ENST00000418390	4/11	30
	ENST00000296702		45
	ENST00000215838	9/9	32
p.L273L	ENST00000409874	6/36	71
	ENST00000422452		26
	ENST00000518659		5
	ENST00000603068		27
	ENST00000409262		17
	ENST00000240361		50
	ENST00000258991		97
p.X105_splice	ENST00000380473		35
p.T211T	ENST00000367166	5/7	79
p.A143T	ENST00000310125	1/1	38
	ENST00000391759		85
	ENST00000212355		30



VEP annotated somatic variants

p.V197I	ENST00000561129	1/1	126
p.S259S	ENST00000452443	6/13	57
	ENST00000366787		22
	ENST00000342640		34
p.A578A	ENST00000423059	6/28	137
	ENST00000288014	2/2	7
	ENST00000505747		22
	ENST00000286827		17
	ENST00000461783		47
p.D557D	ENST00000248244	2/2	225
	ENST00000169551	6/6	16
	ENST00000423516		42
	ENST00000423516		76
	ENST00000292090	1/4	20
p.S563S	ENST00000558939	16/20	61
	ENST00000558939		66
	ENST00000346027		16
p.T958A	ENST00000061240	20/21	124
	ENST00000357947		38
	ENST00000357947		98
p.A844A	ENST00000357947	19/21	97
	ENST00000561311		106
	ENST00000233638	1/3	15
p.F6L	ENST00000288025	1/4	34
	ENST00000186436		48
p.R7Q	ENST00000275767	2/2	56
	ENST00000515780		38
	ENST00000316916		62
	ENST00000515837		12
p.L125L	ENST00000341871	6/6	22
	ENST00000334830	10/10	50
	ENST00000237289		63
p.R92R	ENST00000223795	3/4	50
p.S1606S	ENST00000430969	15/30	50
	ENST00000254051		35
p.S498N	ENST00000254051	6/13	72
p.D358E	ENST00000382044	9/28	77
p.K1141Q	ENST00000382044	17/28	119
	ENST00000382044		71
p.E36E	ENST00000334295	2/7	57
	ENST00000538887		9
	ENST00000360578		32
p.S199S	ENST00000360578	4/4	108
	ENST00000345063		18
	ENST00000006275		56
	ENST00000330149		67
	ENST00000330149		60
p.C834S	ENST00000372922	12/18	80
	ENST00000330912		13
	ENST00000376694		69
	ENST00000377199		22
	ENST00000334634		31
	ENST00000291416		39
p.M679V	ENST00000366653	8/10	128
	ENST00000298355		68

VEP annotated somatic variants

	ENST00000298355		68
p.D1466D	ENST00000344204	29/57	29
p.P18S	ENST00000200457	1/9	55
p.P518P	ENST00000592062	15/18	57
	ENST00000372936		37
	ENST00000252015		31
	ENST00000542188		111
p.V335L	ENST00000155858	7/24	30
	ENST00000313478		25
	ENST00000418703		24
p.M322T	ENST00000298552	10/23	51
	ENST00000298552		48
	ENST00000219476		20
	ENST00000372003		31
p.A108T	ENST00000373020	3/8	76
	ENST00000378482		30
p.R342R	ENST00000399635	1/1	280
	ENST00000259750		17
p.G623A	ENST00000259750	13/15	107
	ENST00000310715		14
	ENST00000261647		13
p.E60K	ENST00000397906	2/23	63
	ENST00000368586		22
	ENST00000368586	1/58	62
	ENST00000368586		26
p.C958C	ENST00000368586	22/58	137
	ENST00000368586		136
p.E250E	ENST00000266254	8/11	141
p.L201L	ENST00000393382	5/16	32
	ENST00000305253		73
	ENST00000283645	23/23	55
	ENST00000248846		47
p.R199R	ENST00000367097	4/14	82
	ENST00000367097		23
	ENST00000548315		11
	ENST00000395681		79
	ENST00000319294		48
	ENST00000284273		34
p.Y501Y	ENST00000348165	12/23	138
	ENST00000375254	106/106	52
	ENST00000399598		30
	ENST00000314032		171
	ENST00000592666	14/17	23
	ENST00000276893		21
	ENST00000301831		79
	ENST00000408989		12
p.D1336N	ENST00000408989	19/22	116
	ENST00000408989		82
	ENST00000268876		19
	ENST00000389221		29
			93
p.V319V	ENST00000326010	9/10	150
	ENST00000373383		10
p.R2292H	ENST00000307340	36/72	42
p.A536A	ENST00000252597	10/13	158

VEP annotated somatic variants

p.F499*	ENST00000219473	8/14	29
p.L200L	ENST00000218348	4/21	33
	ENST00000215794		74
	ENST00000315480		86
	ENST00000261497	13/13	46
	ENST00000398571		13
	ENST00000296792		50
	ENST00000261637		11
	ENST00000261637		21
	ENST00000331397		4
	ENST00000544301		24
p.G417S	ENST00000262178	13/13	55
	ENST00000435505		20
p.L223L	ENST00000554659	6/6	59
	ENST00000423497		9
	ENST00000423497		80
p.R216W	ENST00000297873	6/6	89
	ENST00000325239		87
	ENST00000263461		17
p.T278T	ENST00000263461	6/29	70
	ENST00000263461		32
p.L986L	ENST00000263461	24/29	91
	ENST00000263461		108
	ENST00000280190		82
	ENST00000414423		87
	ENST00000407426		34
	ENST00000302313		39
	ENST00000407559		28
p.V2262_E2267del	ENST00000303868	6/6	29
	ENST00000354475		47
	ENST00000288828		61
p.A141T	ENST00000315939	1/28	60
p.Q390Q	ENST00000369684	5/5	84
p.C11S	ENST00000343737	1/6	51
	ENST00000380773		43
	ENST00000315436		50
	ENST00000521089		6
p.L832L	ENST00000359154	23/24	107
	ENST00000358368		30
	ENST00000373884	3/3	47
	ENST00000502935		19
	ENST00000357137		31
p.R893R	ENST00000265351	24/32	42
p.P206P	ENST00000262887	7/17	49
	ENST00000262887		45
	ENST00000007699		29
	ENST00000368339		56
p.E57E	ENST00000368339	1/10	117
p.E432E	ENST00000325144	3/3	131
	ENST00000237275		25
	ENST00000409806		21
	ENST00000409806		73
	ENST00000409806	2/6	115
	ENST00000262577		89
	ENST00000352645		21

VEP annotated somatic variants

p.P207P	ENST00000537356	2/2	83
p.N74I	ENST00000393760	3/12	171
p.T206T	ENST00000369405	5/11	101
	ENST00000564466		48
	ENST00000316495		69
p.V1545A	ENST00000419474	9/10	122
	ENST00000407775		30
	ENST00000355341	11/11	44
	ENST00000394170		28
	ENST00000231749		129
	ENST00000231749		104
	ENST00000535861		44
p.C323C	ENST00000370251	4/5	92
p.L121P	ENST00000391705	4/4	125
	ENST00000536459		136
	ENST00000410046		19
	ENST00000393927		109
	ENST00000337995		12
p.T452T	ENST00000594154	5/5	61
	ENST00000357901		90
	ENST00000339249		37
	ENST00000392288		44
	ENST00000450537		60
p.S926N	ENST00000299927	5/8	240
p.S453Y	ENST00000431526	11/14	42
p.T68I	ENST00000270649	4/5	94
	ENST00000601440	1/4	165
p.G27E	ENST00000397121	2/3	61
p.S95S	ENST00000421812	3/3	129
p.K113E	ENST00000356929	4/4	78
	ENST00000422325		19
p.T478T	ENST00000370766	7/7	62
p.V193G	ENST00000395216	3/3	40
p.K417K	ENST00000357666	5/5	91
p.V866V	ENST00000442396	8/8	143
p.T158I	ENST00000278853	3/12	119
	ENST00000448803		13
	ENST00000254323		55
	ENST00000381638		9

VEP annotated somatic variants

t_ref_count	t_alt_count	n_depth	n_ref_count
15	2	32	32
11	5	49	49
56	8	112	112
80	11	80	80
25	3	102	102
3	2	19	19
25	3	75	75
17	3	45	45
100	13	183	183
13	5	51	50
155	25	249	249
11	4	48	48
30	4	39	39
70	12	70	69
58	8	47	47
25	3	92	92
24	6	22	22
38	8	32	32
29	5	33	33
22	3	110	110
26	3	60	60
56	10	118	118
52	12	170	170
21	3	123	123
55	12	72	72
73	9	122	122
80	14	126	126
59	9	128	128
117	15	129	129
49	9	154	154
47	7	60	59
139	18	171	171
81	11	153	153
75	10	176	175
44	6	68	68
24	6	39	39
155	21	247	247
42	14	103	103
22	5	69	69
60	8	125	125
21	3	28	28
61	10	145	143
21	3	67	67
48	6	48	48
34	6	71	71
68	12	140	140
130	20	252	252
76	10	179	179
203	24	438	436
26	8	96	96
25	3	52	52
51	8	146	146
42	9	63	63
8	3	63	63

VEP annotated somatic variants

17	5	83	83
58	7	111	111
68	13	149	149
61	9	98	98
58	7	109	109
8	4	48	48
18	4	102	102
23	6	39	39
74	9	217	216
47	7	88	88
25	4	71	71
32	5	62	62
25	5	21	21
27	3	37	37
16	4	47	47
34	5	96	96
22	6	70	70
13	3	50	50
17	3	56	56
38	9	66	66
41	7	67	67
37	6	82	82
21	3	47	47
46	6	104	104
33	10	136	136
26	3	50	50
78	12	161	161
52	6	94	93
19	4	51	51
41	5	75	75
7	2	32	32
110	29	362	362
20	7	78	78
22	4	54	54
17	4	58	58
62	8	91	91
102	18	99	98
1	3	29	29
70	8	101	101
42	5	119	119
65	16	183	183
62	10	171	171
26	5	48	48
42	23	154	154
41	11	81	81
49	10	50	50
23	4	64	64
47	11	121	121
67	17	235	235
106	17	194	194
109	14	196	196
64	10	121	121
142	22	201	200
17	3	25	25
25	5	62	62

VEP annotated somatic variants

25	3	32	32
21	5	60	60
61	10	149	149
56	8	156	156
52	7	59	59
8	4	42	42
66	11	233	232
15	3	41	41
27	5	54	54
22	4	46	46
42	5	124	124
133	18	165	165
61	7	150	150
53	9	75	75
47	9	104	103
19	8	41	41
22	5	30	30
21	3	60	60
89	12	198	198
40	5	75	75
21	5	114	114
115	16	236	236
13	7	57	57
60	12	78	78
78	9	155	155
27	13	94	94
218	28	458	458
74	10	71	71
1	2	9	9
63	12	151	151
26	3	52	52
34	4	100	100
15	3	37	37
15	4	49	49
26	3	53	53
83	13	173	173
35	7	48	48
25	5	41	40
45	6	72	72
45	7	132	132
21	4	59	58
43	5	39	39
29	4	43	43
44	6	48	48
27	3	58	58
71	10	101	100
43	9	66	66
38	8	65	65
56	7	103	103
8	6	36	36
52	6	92	92
19	3	33	33
11	3	31	31
23	12	38	38
51	7	95	95

VEP annotated somatic variants

26	3	194	194
83	19	166	166
54	6	86	86
18	6	63	63
25	5	68	68
40	7	129	129
52	6	105	105
12	2	36	36
49	6	118	118
55	9	161	161
68	8	75	75
120	18	157	157
65	9	87	87
78	12	176	176
45	6	83	83
26	6	78	78
46	15	85	85
24	4	46	46
36	4	82	82
12	3	31	31
19	3	49	49
22	3	40	40
54	10	85	85
32	4	112	112
87	12	192	192
21	3	58	58
29	8	97	97
97	16	191	191
47	21	168	168
18	3	24	24
48	8	94	94
14	3	63	63
13	3	119	119
143	22	156	156
63	10	105	105
38	7	61	61
30	5	56	55
16	3	85	85
22	5	45	45
29	4	84	84
35	6	77	77
90	27	173	173
16	3	82	82
11	3	48	48
57	8	123	123
13	3	51	51
119	17	199	199
42	7	84	84
15	3	28	28
14	3	34	34
58	8	127	127
91	13	236	236
137	16	242	242
22	4	51	50
29	6	79	79



VEP annotated somatic variants

22	3	19	19
23	3	51	51
25	4	59	59
26	4	62	62
29	4	49	49
25	3	51	51
49	9	79	79
20	4	46	46
173	29	246	246
24	5	49	49
33	6	82	82
8	3	33	33
97	12	175	174
57	10	110	110
76	15	108	108
64	8	120	120
28	5	61	61
107	13	164	164
28	5	77	77
39	6	76	76
19	3	149	149
120	18	210	210
64	9	79	79
81	17	277	277
19	3	81	81
54	9	54	54
84	11	97	97
24	3	49	49
108	15	274	274
24	3	78	78
92	14	141	141
70	10	114	114
68	9	118	118
11	3	35	35
28	5	57	57
19	3	46	46
13	4	45	45
66	12	139	139
41	9	104	104
32	7	39	38
28	5	52	52
55	7	95	95
16	3	61	61
27	3	47	46
33	7	82	82
16	3	68	68
42	5	104	104
23	3	85	85
19	4	56	56
12	3	85	85
54	8	83	83
64	9	104	104
64	14	71	71
31	6	34	33
19	5	44	43

VEP annotated somatic variants

73	11	113	113
63	8	118	118
37	5	156	155
110	24	241	241
80	11	128	128
36	4	79	79
136	16	253	253
58	10	99	99
39	6	80	80
26	3	48	48
46	6	69	69
23	3	55	55
23	4	58	58
20	6	40	40
18	3	42	42
29	5	57	57
35	4	88	88
2	2	25	25
35	10	114	113
57	10	143	143
12	6	30	30
132	16	224	224
17	3	73	73
30	5	124	124
58	9	126	126
25	3	81	81
47	8	63	63
28	8	121	121
41	8	69	69
5	2	22	22
53	17	144	144
35	6	89	89
23	3	65	65
72	8	186	186
29	8	38	37
24	4	71	71
110	17	153	153
33	4	112	112
106	14	171	171
47	8	72	72
2	2	12	12
24	4	36	36
16	4	55	55
43	7	107	107
20	3	33	33
42	5	112	112
14	3	19	19
107	19	184	184
58	7	110	110
12	2	55	55
38	6	116	116
14	5	54	54
38	6	50	50
11	6	31	31
16	3	47	47

VEP annotated somatic variants

34	4	77	77
36	7	86	86
46	7	102	102
71	10	142	142
89	11	140	140
53	11	165	165
21	4	65	65
82	10	157	156
37	7	69	69
27	5	110	110
58	9	84	83
80	9	138	138
51	7	108	108
16	3	62	62
25	3	93	93
15	8	74	74
14	6	70	70
37	6	134	134
5	2	25	25
1	4	12	12
35	6	57	57
94	16	128	128
50	8	53	53
42	5	84	84
23	4	79	79
104	17	233	233
34	4	60	60
49	7	67	67
79	16	228	228
17	3	38	38
52	9	94	94
11	4	165	165
22	3	57	57
14	3	53	53
18	3	33	33
58	10	221	221
109	25	145	145
46	9	103	103
37	5	73	73
112	16	190	190
72	11	137	137
53	13	64	64
51	12	114	114
18	3	68	68
96	15	198	198
47	7	128	128
46	6	65	65
15	2	34	34
21	6	52	52
46	9	79	79
36	4	71	71
25	3	130	130
54	6	84	84
54	11	131	131
16	4	41	41

VEP annotated somatic variants

14	4	37	37
25	3	35	35
26	4	59	59
39	7	88	88
30	7	57	57
24	5	50	50
18	3	74	74
51	8	76	76
32	5	89	89
14	4	41	41
8	2	22	22
12	3	30	30
56	10	57	57
72	12	119	119
22	3	70	70
61	10	107	107
14	4	45	44
139	24	246	246
115	18	188	188
58	10	86	85
22	3	58	57
30	4	51	51
43	5	94	94
25	5	52	52
37	7	44	44
40	7	55	55
36	4	117	117
19	6	58	58
52	11	170	170
91	19	167	167
37	18	170	170
21	3	56	56
49	9	73	73
72	14	63	63
39	5	46	46
65	8	147	147
21	4	101	101
97	13	196	196
21	3	44	44
12	4	32	32
25	3	54	54
23	6	91	91
87	14	108	108
57	10	137	137
27	3	77	77
23	3	63	63
25	3	44	44
60	7	170	170
20	3	48	48
19	3	52	52
40	5	73	73
2	2	17	17
56	8	85	85
59	9	41	41
22	5	57	57

VEP annotated somatic variants

80	11	211	211
26	4	106	106
55	7	103	103
33	6	92	92
26	3	71	71
136	24	153	153
131	22	299	299
230	28	264	264
9	4	51	51
23	3	97	97
64	9	94	94
23	6	35	35
16	4	56	56
49	7	138	138
32	4	106	106
32	4	107	107
54	7	85	85
97	16	187	185
24	3	72	72
45	7	61	61
21	3	35	35
17	4	103	103
30	5	66	66
106	18	224	224
24	3	72	72
45	6	178	178
67	9	99	99
34	11	137	137
50	6	123	123
110	17	187	187
33	9	88	88
22	4	43	43
15	5	62	61
40	9	98	98
54	11	72	72
196	27	489	489
6	3	31	31
102	15	162	162
18	3	48	48
12	3	70	70
32	5	53	53
39	6	62	62
24	9	86	86
13	4	44	44
42	7	102	102
40	6	61	61
53	12	121	121
57	7	106	106
8	3	20	20
8	3	21	21
53	8	103	102
24	3	31	31
39	7	93	93
63	15	114	114
64	8	115	115

VEP annotated somatic variants

42	7	154	154
36	4	48	48
23	3	92	92
5	4	23	23
51	11	92	92
28	5	25	25
70	12	166	166
43	7	59	59
42	5	39	39
26	3	84	84
23	4	46	46
56	8	111	111
64	9	132	132
33	4	69	69
49	9	82	82
139	20	221	221
68	13	86	86
22	4	31	31
49	8	55	55
25	3	64	64
110	16	206	206
76	14	146	146
31	4	37	37
83	15	100	100
34	7	73	73
23	3	49	49
9	3	33	33
7	3	23	23
15	3	49	49
32	4	69	69
63	22	129	129
95	11	197	196
67	15	127	127
81	17	96	96
100	15	163	163
52	6	129	129
57	7	106	106
15	2	60	60
23	3	58	58
56	7	191	191
23	7	74	74
58	13	123	123
95	14	200	200
5	3	53	53
57	13	139	139
52	7	146	146
26	4	31	31
29	4	63	63
38	7	79	79
226	26	391	391
93	11	138	138
19	6	82	82
17	3	28	28
53	10	154	154
7	3	56	56

VEP annotated somatic variants

10	4	52	52
45	6	91	91
26	3	143	143
130	17	233	233
52	11	82	81
14	3	59	59
53	7	72	72
108	19	136	136
38	9	72	72
76	13	252	252
148	27	183	182
15	4	34	34
15	3	55	55
25	10	193	193
21	3	44	44
37	7	75	74
74	11	132	132
128	15	161	161
83	11	327	327
134	18	204	204
33	7	86	86
88	13	167	167
132	32	354	354
95	14	205	205
50	6	73	73
6	2	19	19
15	8	42	42
29	6	70	70
71	8	100	100
119	22	160	160
62	9	190	189
59	8	95	95
32	9	71	71
33	4	82	82
23	6	67	67
42	5	89	89
38	7	86	86
33	5	66	66
128	16	149	149
29	4	34	34
24	6	47	47
72	10	130	130
59	9	47	47
102	15	139	139
21	4	43	43
71	12	160	160
28	13	72	72
110	22	195	195
27	4	60	60
31	5	84	84
49	7	92	92
255	37	515	515
45	6	47	46
63	9	147	147
136	17	182	182

VEP annotated somatic variants

33	5	103	102
69	14	95	95
71	11	109	109
15	2	47	47
22	3	65	65
55	8	79	79
64	17	182	182
13	3	23	23
115	21	193	192
31	5	58	58
24	5	43	43
79	10	117	117
21	4	44	44
8	3	30	30
10	3	39	39
61	8	72	72
11	4	32	32
20	3	77	77
19	4	58	58
25	7	53	52
106	13	250	250
22	4	30	30
86	15	120	120
21	7	59	59
173	30	314	314
88	13	98	98
14	4	35	35
37	5	111	111
35	6	55	55
109	13	125	125
53	6	70	70
8	3	54	54
29	10	55	55
90	21	220	220
19	4	33	33
62	17	132	132
17	10	79	79
98	17	129	129
32	4	67	67
53	6	121	121
154	24	173	173
5	3	53	53
18	3	78	78
19	3	45	45
105	14	156	156
72	12	266	266
6	3	30	30
69	13	176	176
66	8	164	164
93	12	177	177
67	8	172	172
63	7	112	112
11	3	9	9
38	6	77	77
16	9	123	123



VEP annotated somatic variants

85	16	325	325
19	3	38	38
77	15	154	154
51	7	95	95
34	5	69	69
68	10	157	157
25	7	69	69
30	5	103	103
34	4	61	61
42	7	127	127
41	5	73	73
111	22	290	290
107	15	121	121
10	3	14	14
184	25	458	458
24	8	80	80
34	7	68	68
59	13	139	139
14	3	66	66
22	4	69	69
22	4	78	78
52	10	117	117
77	10	156	156
60	12	97	97
13	3	27	27
17	8	33	33
80	13	89	89
86	12	145	145
37	5	139	139
70	15	109	109
65	12	78	78
22	3	35	35
28	5	73	73
85	12	246	246
24	3	53	53
53	8	111	111
7	3	50	50
77	10	208	208
63	9	88	88
78	10	125	125
104	12	258	258
76	15	102	102
55	9	80	80
97	17	55	55
18	9	28	28
79	10	184	184
8	4	35	35
25	4	47	47
24	3	58	58
3	2	14	14
26	6	72	72
15	3	46	46
76	10	100	100
57	9	119	119
137	19	220	220

VEP annotated somatic variants

39	18	152	152
153	18	254	254
38	8	71	71
108	17	249	249
4	2	24	24
86	24	243	243
22	6	81	81
17	6	32	32
113	19	110	110
42	12	111	111
15	2	48	48
125	16	142	142
63	9	123	123
49	9	43	43
32	4	54	54
16	4	41	41
15	4	65	65
71	13	46	46
16	8	63	63
78	20	254	254
87	10	183	183
17	3	35	35
98	12	112	112
46	11	62	62
127	23	223	223
87	12	99	98
63	8	94	94
45	6	69	69
27	3	43	43
44	5	58	58
38	6	69	69
39	6	90	89
26	4	37	37
10	4	60	60
13	3	57	57
45	8	112	112
12	3	33	33
42	13	90	90
54	15	163	162
48	7	136	136
43	6	71	71
90	10	291	291
10	3	39	39
132	18	187	187
11	2	54	54
94	15	134	134
18	3	43	43
34	4	49	49
51	10	59	59
26	3	69	69
19	3	19	19
26	3	88	88
12	2	49	49
28	5	51	51
48	6	85	85

VEP annotated somatic variants

66	12	135	135
32	7	120	117
20	3	64	64
20	3	57	57
77	9	191	191
118	23	186	186
92	16	193	193
105	24	210	209
24	3	58	57
38	7	149	149
24	3	84	84
133	15	318	318
7	3	42	42
102	13	111	111
19	3	76	76
62	13	98	98
90	13	141	141
15	4	30	30
43	5	107	107
45	7	80	79
62	9	98	98
25	6	51	51
9	2	43	43
37	6	65	65
16	4	63	63
72	11	181	181
16	3	87	87
0	2	10	10
43	7	85	85
15	3	42	42
82	11	89	89
65	8	66	66
23	3	83	83
140	18	174	173
12	3	16	16
57	10	118	118
18	3	56	56
13	3	55	55
43	11	91	91
21	3	43	43
105	17	114	114
27	4	49	49
23	3	53	53
118	14	219	219
45	8	100	100
118	31	292	292
27	5	88	88
65	13	164	164
25	5	41	41
93	13	105	105
33	5	51	51
20	3	62	62
28	6	59	59
74	10	152	152
30	4	71	71

VEP annotated somatic variants

37	7	45	45
17	3	32	32
24	3	61	61
51	8	150	150
20	3	104	104
193	28	179	179
26	13	83	83
29	7	46	46
57	11	127	127
49	10	131	131
123	14	295	295
19	3	56	56
47	7	91	91
32	8	67	67
22	3	50	50
15	3	41	41
60	15	177	177
62	11	119	119
73	9	148	148
156	23	296	296
168	25	243	243
71	11	91	91
25	13	40	40
52	9	128	128
22	3	81	81
42	5	103	103
137	20	274	274
81	11	197	197
60	10	67	67
87	10	96	96
7	2	35	35
61	7	143	143
75	13	87	87
11	2	28	28
11	2	28	28
93	12	255	255
31	4	64	64
61	11	125	125
41	5	98	98
55	7	96	96
14	3	55	55
23	4	24	24
61	10	100	100
44	7	94	94
60	12	115	115
31	9	44	44
127	22	236	236
240	45	531	529
49	7	73	73
200	28	227	227
74	12	158	158
28	8	102	102
28	5	98	98
67	8	97	97
31	6	75	75

VEP annotated somatic variants

71	13	220	220
153	22	289	288
15	7	72	72
44	6	81	81
137	17	203	202
60	13	77	77
33	4	80	80
130	21	153	153
22	10	39	39
31	13	80	80
26	3	46	46
43	5	60	60
22	3	65	65
82	20	253	253
75	16	170	170
122	23	143	143
134	16	177	177
14	3	40	40
156	37	324	324
51	8	98	98
54	14	142	142
14	2	17	17
32	5	34	34
53	12	198	198
62	14	126	126
97	14	140	140
45	8	63	63
68	9	155	155
13	2	50	49
41	6	81	81
102	12	225	225
46	8	94	94
65	9	184	184
113	19	118	118
30	4	38	38
52	8	135	133
137	18	127	127
68	16	104	104
134	26	311	311
68	8	76	76
34	4	33	33
7	3	23	23
54	11	124	124
18	3	32	32
36	10	104	104
19	3	145	145
45	5	45	45
14	4	49	49
49	6	57	57
22	3	83	83
52	7	178	176
119	21	186	186
52	10	103	103
48	7	81	80
18	3	53	53

VEP annotated somatic variants

25	3	57	57
24	3	44	44
20	3	60	60
57	9	178	178
39	6	83	82
89	12	196	196
53	11	118	118
50	8	101	101
22	3	52	51
44	6	102	102
144	20	346	346
21	6	80	80
19	3	73	73
41	9	137	137
65	8	72	72
11	4	47	47
63	8	108	107
10	3	25	25
60	9	160	160
71	8	105	105
23	3	32	32
27	5	122	122
46	6	61	61
13	4	47	47
41	5	132	132
17	3	100	100
11	2	33	33
43	16	135	135
26	5	40	40
33	5	49	49
16	3	67	67
22	3	77	77
24	6	47	47
27	3	51	51
83	13	178	178
67	9	123	123
71	16	134	134
12	5	61	61
22	3	80	80
19	7	50	50
75	17	207	207
46	6	81	81
39	6	67	67
69	8	113	113
75	11	127	126
174	23	299	298
28	4	98	98
27	8	109	109
198	26	233	233
25	3	69	69
11	4	63	63
22	5	66	66
32	5	55	55
53	8	81	81
133	21	151	151

VEP annotated somatic variants

15	2	39	39
19	5	19	19
15	3	32	32
24	4	83	83
66	9	115	115
54	6	113	113
72	10	119	119
68	10	83	83
60	14	166	166
17	3	23	23
27	3	53	53
29	4	65	65
11	3	147	147
95	16	282	282
51	6	66	66
15	3	34	34
71	10	111	111
21	8	53	53
39	7	89	89
38	6	79	79
16	5	52	52
61	10	102	102
62	10	102	102
39	5	77	77
11	4	55	55
77	10	146	146
114	22	112	112
15	6	51	51
10	3	40	40
60	10	162	162
49	6	165	165
39	5	65	65
21	3	78	77
73	9	210	210
56	13	190	190
66	14	218	218
54	8	86	86
57	9	154	154
22	3	56	56
52	7	86	86
49	8	136	136
178	23	451	449
14	2	56	56
25	3	73	73
52	7	127	127
94	13	144	144
72	11	116	116
47	6	89	89
36	4	38	38
29	7	84	84
61	9	96	96
20	5	78	78
31	7	44	44
146	17	170	170
15	3	61	60

VEP annotated somatic variants

158	20	350	350
121	22	213	213
63	12	155	155
39	6	52	51
69	10	146	146
14	3	65	65
52	8	117	117
21	4	34	34
52	15	89	89
100	19	217	217
67	14	72	72
29	7	118	118
47	6	66	66
85	14	155	155
6	3	25	25
21	6	37	37
30	5	81	80
62	8	92	92
63	11	80	80
35	4	100	100
39	8	61	61
86	10	240	239
32	6	72	72
109	14	269	269
134	15	238	238
37	6	105	105
42	6	88	88
38	14	78	78
40	8	93	93
21	3	34	34
27	5	42	42
50	6	37	37
34	4	95	95
14	4	22	22
14	2	55	55
14	3	31	31
45	13	170	170
72	10	106	106
52	9	100	100
17	3	26	26
41	6	70	70
79	9	128	128
44	5	101	101
10	3	24	24
115	15	80	80
70	12	184	183
61	19	167	167
23	3	74	74
35	5	79	78
15	3	61	60
23	3	42	42
56	9	99	99
18	3	56	56
30	8	58	58
39	6	90	90



VEP annotated somatic variants

20	3	55	55
123	18	272	272
15	4	33	33
63	10	78	78
21	3	64	64
148	25	195	195
169	24	211	211
28	4	35	35
140	39	254	254
94	14	87	87
137	20	277	276
16	3	50	50
9	3	73	73
16	3	83	83
62	9	91	91
102	13	139	139
24	3	86	86
11	5	49	49
28	5	30	30
12	2	56	56
71	10	121	121
57	10	92	92
188	21	215	215
15	5	40	40
11	3	46	46
19	3	76	76
21	3	47	47
18	6	86	86
40	6	104	104
71	10	89	89
66	14	159	159
15	3	74	74
120	27	197	197
77	11	207	207
41	5	70	70
93	12	150	150
8	3	48	48
16	5	77	77
34	6	99	99
26	3	39	39
40	15	87	87
27	8	84	84
27	8	85	85
57	15	120	120
31	6	105	105
26	5	72	72
21	3	69	69
59	10	129	129
29	4	64	63
115	17	150	150
21	4	68	68
100	14	47	47
19	4	63	63
88	11	180	180
30	5	50	49

VEP annotated somatic variants

54	8	70	70
82	12	201	200
67	13	97	97
108	13	195	195
40	15	68	68
31	4	48	48
88	11	134	134
23	6	64	64
86	10	116	116
6	3	36	35
11	4	39	39
40	8	108	108
286	37	254	254
15	5	27	27
14	7	30	30
14	3	47	47
69	13	105	105
59	9	183	183
23	3	42	42
22	4	82	82
67	9	230	230
47	12	158	158
62	9	139	139
37	10	88	88
33	6	42	42
70	19	126	126
127	22	172	172
22	3	84	84
87	19	132	132
95	17	169	169
12	3	46	46
29	5	42	42
103	15	155	155
24	3	37	37
63	9	82	82
75	12	120	120
96	14	150	149
17	3	39	39
39	8	43	43
57	11	210	209
49	6	62	62
9	5	34	34
32	4	68	68
39	7	212	212
26	3	77	77
48	11	112	112
83	10	116	116
92	12	76	76
31	6	125	125
83	13	141	141
27	4	53	53
51	7	73	73
44	6	24	24
33	4	84	84
95	13	187	187

VEP annotated somatic variants

21	3	65	65
23	5	44	44
35	4	116	116
16	3	20	20
32	5	82	82
46	6	106	106
68	9	100	100
60	7	83	83
32	5	79	79
53	6	68	68
30	4	39	39
44	7	100	100
66	8	46	46
23	3	38	38
77	14	110	110
103	21	324	324
51	17	166	166
16	2	75	75
16	2	75	75
35	7	64	64
30	5	43	43
21	4	43	43
19	6	88	88
226	26	392	392
47	12	107	107
88	12	113	113
97	13	152	152
31	4	100	100
74	11	134	134
38	7	110	110
114	14	178	176
11	3	27	27
76	9	216	215
112	14	209	209
69	12	112	112
57	8	60	60
51	6	63	63
51	17	102	102
28	5	60	60
67	10	92	92
2	2	28	28
22	3	94	94
42	5	89	89
144	18	381	381
41	5	124	124
23	3	70	70
61	9	170	170
50	9	102	102
20	3	44	44
53	9	75	75
25	4	34	34
40	6	57	57
83	19	129	129
37	9	72	72
35	5	108	108

VEP annotated somatic variants

14	3	55	54
16	3	24	24
22	4	67	67
90	14	147	147
77	17	161	161
27	10	63	63
53	6	254	254
35	4	57	57
0	2	23	23
10	3	47	47
93	16	138	138
20	3	66	66
16	3	25	25
44	5	35	35
38	7	97	97
36	5	77	77
27	4	62	62
42	5	86	86
52	13	165	165
38	9	75	75
27	4	54	54
36	5	70	70
26	4	107	107
30	4	136	136
18	3	44	44
170	21	456	456
47	7	76	76
51	8	135	135
27	6	89	89
18	3	72	72
24	3	69	69
105	12	112	111
33	8	130	130
183	31	368	368
26	9	92	92
90	13	186	186
56	7	86	86
139	20	365	365
31	6	59	59
21	3	44	44
251	30	193	193
4	3	22	22
61	12	62	62
90	13	71	71
65	21	155	155
20	3	56	56
55	10	70	70
24	5	30	30
15	4	58	58
49	7	188	188
40	12	115	115
15	3	92	92
177	27	288	288
8	2	32	32
14	3	40	40

VEP annotated somatic variants

32	4	30	30
23	5	98	98
49	11	68	68
26	3	41	41
33	5	65	65
43	9	93	93
29	11	80	80
4	4	32	32
71	8	127	127
49	7	176	176
25	3	84	84
122	31	195	195
21	6	42	42
62	10	138	138
18	5	36	36
26	6	64	64
110	15	155	155
37	8	39	39
64	9	108	108
50	6	146	146
44	8	18	18
3	2	40	40
24	3	60	60
5	3	25	25
29	4	58	58
72	12	141	141
39	5	133	133
37	5	121	121
9	3	39	39
74	11	131	131
62	11	110	108
63	7	149	149
34	6	115	115
25	3	72	72
28	7	132	130
30	4	63	63
35	4	88	87
30	5	47	47
25	3	63	63
51	6	99	99
152	24	311	310
75	12	119	119
138	22	194	194
94	11	120	120
13	3	52	52
35	8	62	62
14	3	70	70
122	15	152	152
2	2	10	10
107	18	155	155
20	3	74	74
34	6	103	103
16	3	89	89
57	9	90	90
4	3	48	48

VEP annotated somatic variants

15	4	45	45
32	4	59	59
40	7	39	39
26	3	81	81
15	3	54	54
109	16	215	215
48	7	120	120
19	4	88	88
20	4	105	105
21	3	45	45
27	4	75	75
96	14	127	127
85	16	157	157
6	5	49	49
33	5	103	103
34	5	98	98
22	5	45	45
41	7	62	62
10	3	51	51
45	8	79	79
52	7	90	90
108	13	179	179
87	10	139	139
59	21	245	245
45	7	189	189
45	5	120	120
80	21	217	216
40	5	69	69
32	7	76	76
79	10	122	122
94	25	188	188
20	5	60	60
65	9	143	143
44	6	82	82
103	14	100	100
19	4	59	59
108	19	213	213
15	3	27	27
26	4	103	103
31	8	53	53
23	7	44	44
39	6	83	82
26	6	41	41
62	9	136	136
23	3	65	65
3	2	13	13
23	4	54	54
15	2	33	33
40	10	75	75
85	12	153	153
30	5	85	85
68	11	97	97
31	7	65	65
75	10	88	88
26	4	70	70

VEP annotated somatic variants

105	21	336	336
46	11	171	171
17	5	74	74
28	6	28	28
120	17	171	171
5	2	31	31
19	3	27	27
14	3	53	53
40	7	126	126
191	34	305	305
13	3	18	18
32	10	89	89
66	10	86	86
17	3	25	25
47	14	126	126
52	14	57	57
13	3	49	49
107	17	244	244
30	8	66	66
82	16	191	191
85	12	154	154
95	11	145	145
12	3	44	44
29	5	55	55
43	5	53	53
47	9	142	142
34	4	71	71
53	9	71	71
10	2	23	23
18	4	87	87
43	7	103	103
49	14	137	137
43	7	84	84
37	13	118	118
29	6	38	38
63	9	117	117
64	13	88	88
102	17	222	222
63	8	91	91
45	12	127	127
7	2	31	31
26	6	61	61
94	14	237	237
15	3	77	77
50	6	135	135
59	8	60	60
54	6	59	59
67	13	106	106
7	6	32	32
57	12	96	96
19	3	30	30
27	4	79	79
35	4	101	100
104	24	199	199
57	11	117	116

VEP annotated somatic variants

61	7	81	81
25	4	55	55
48	7	74	74
48	9	73	73
32	5	49	49
24	7	43	43
97	14	196	195
26	4	46	46
22	3	70	70
21	3	73	73
44	7	100	100
40	8	45	45
17	3	95	95
25	6	70	69
62	14	81	81
26	4	60	60
239	41	643	643
13	4	90	90
92	15	106	106
11	3	51	51
10	3	59	59
56	7	153	153
15	7	38	38
54	8	62	62
23	3	39	39
122	15	214	214
122	14	112	112
117	24	167	167
28	4	77	77
65	8	137	137
48	7	118	118
40	7	57	57
66	16	176	176
19	4	48	48
8	3	32	32
64	15	56	56
41	7	99	99
30	4	47	47
121	17	162	162
39	13	70	70
26	4	61	61
151	20	201	201
20	3	25	25
18	3	51	51
68	11	101	101
8	4	74	74
100	16	150	149
73	9	80	80
16	3	56	56
24	5	79	79
81	12	220	220
122	28	277	277
7	3	33	33
37	5	115	115
142	16	282	281



VEP annotated somatic variants

26	3	89	89
27	6	61	61
65	9	169	168
76	10	185	185
39	7	34	34
10	3	42	42
45	5	98	98
8	3	26	26
17	4	58	58
2	2	18	18
21	3	45	45
48	7	27	27
15	5	83	83
46	13	77	77
6	3	94	94
67	13	211	211
77	12	159	159
78	9	194	194
14	3	61	61
60	10	127	127
28	4	55	55
80	11	113	113
97	11	180	180
70	12	113	113
78	9	110	110
28	6	41	40
31	8	137	137
20	8	63	63
26	3	32	32
42	5	128	128
52	9	69	69
53	7	90	90
74	10	123	123
41	10	118	118
37	6	77	77
44	6	59	59
3	3	49	48
91	16	189	189
23	7	85	85
40	7	126	126
16	3	35	35
24	7	35	35
36	6	92	92
37	12	72	72
38	7	89	89
26	3	30	30
46	10	124	124
100	17	126	126
116	15	221	221
19	6	61	61
11	10	49	49
62	11	68	68
100	15	92	92
79	10	81	81
16	5	64	64

VEP annotated somatic variants

64	19	122	122
151	20	199	199
85	16	201	201
40	8	146	146
61	8	140	140
109	13	219	219
27	3	92	92
37	7	75	75
25	3	60	60
102	27	297	297
85	19	137	137
30	14	51	51
75	17	140	140
112	13	189	189
113	23	293	293
16	3	45	45
96	13	79	79
9	3	34	34
52	9	122	122
78	12	133	133
32	5	34	34
39	5	69	69
53	7	76	76
214	26	286	285
37	5	55	55
81	13	105	105
142	23	185	185
52	9	161	159
104	25	211	211
68	10	120	120
14	5	50	50
53	9	71	71
34	6	126	126
77	14	177	177
116	27	232	232
106	13	395	394
10	3	38	38
47	8	88	88
6	3	51	51

VEP annotated somatic variants

n_alt_count	all_effects	Allele	Gene
0	AADACL2,intron_variant,	AA	ENSG00000197953
0	AAED1,intron_variant,,E	C	ENSG00000158122
0	AASS,intron_variant,,EN	C	ENSG00000008311
0	ABCA10,synonymous_var	G	ENSG00000154263
0	ABCA3,3_prime_UTR_var	T	ENSG00000167972
0	ABCA6,intron_variant,,E	G	ENSG00000154262
0	ABCA6,intron_variant,,E	G	ENSG00000154262
0	ABCA9,intron_variant,,E	G	ENSG00000154258
0	ABCC1,synonymous_var	A	ENSG00000103222
1	ABCC6,intron_variant,,E	-	ENSG00000091262
0	ABCC8,synonymous_var	T	ENSG00000006071
0	ABHD3,5_prime_UTR_var	GAGCGGGCGA	ENSG00000158201
0	ABR,splice_region_vari	A	ENSG00000159842
1	AC005013.5,upstream_g	C	ENSG00000228421
0	AC026202.1,missense_v	T	ENSG00000268509
0	ACAD8,intron_variant,,E	A	ENSG00000151498
0	ACADM,intron_variant,,E	G	ENSG00000117054
0	ACADSB,intron_variant,,l	T	ENSG00000196177
0	ACBD3,intron_variant,,E	C	ENSG00000182827
0	ACER1,5_prime_UTR_var	A	ENSG00000167769
0	ACP2,3_prime_UTR_var	A	ENSG00000134575
0	ACPL2,splice_region_var	A	ENSG00000155893
0	ACSBG1,intron_variant,,l	A	ENSG00000103740
0	ACSF3,intron_variant,,E	T	ENSG00000176715
0	ACSM4,intron_variant,,E	T	ENSG00000215009
0	ACVR2B,splice_region_v	A	ENSG00000114739
0	ADAM15,missense_varia	T	ENSG00000143537
0	ADAM17,intron_variant,,f	ATAA	ENSG00000151694
0	ADAMTS14,missense_var	A	ENSG00000138316
0	ADAMTS2,intron_variant	G	ENSG00000087116
1	ADAMTS20,intron_variar	-	ENSG00000173157
0	ADAMTS4,intron_variant	T	ENSG00000158859
0	ADAMTS6,intron_variant	G	ENSG00000049192
1	ADAMTSL1,intron_variar	G	ENSG00000178031
0	ADORA1,intron_variant,,l	-	ENSG00000163485
0	ADORA3,5_prime_UTR_	G	ENSG00000121933
0	AFAP1L2,synonymous_v	C	ENSG00000169129
0	AFF1,intron_variant,,EN	C	ENSG00000172493
0	AFF2,intron_variant,,EN	A	ENSG00000155966
0	AGAP3,intron_variant,,E	G	ENSG00000133612
0	AGBL3,intron_variant,,E	C	ENSG00000146856
2	AGTR1,synonymous_var	T	ENSG00000144891
0	AHI1,intron_variant,,ENS	C	ENSG00000135541
0	AHSP,intron_variant,,EN	A	ENSG00000169877
0	AIG1,synonymous_variar	C	ENSG00000146416
0	AIM1L,intron_variant,,EN	T	ENSG00000176092
0	AIM1L,intron_variant,,EN	T	ENSG00000176092
0	AIPL1,missense_variant,	T	ENSG00000129221
2	AIRE,synonymous_variar	T	ENSG00000160224
0	AIRE,intron_variant,,ENS	C	ENSG00000160224
0	AKAP9,splice_region_var	T	ENSG00000127914
0	AKAP9,intron_variant,,E	G	ENSG00000127914
0	AKR1B10,intron_variant,,	T	ENSG00000198074
0	ALB,intron_variant,,ENS	A	ENSG00000163631

VEP annotated somatic variants

0	ALDH16A1,intron_varian	A	ENSG00000161618
0	ALDH1A3,intron_variant,	A	ENSG00000184254
0	ALOX5,intron_variant,,E	T	ENSG00000012779
0	ALPK3,5_prime_UTR_va	C	ENSG00000136383
0	ALPK3,intron_variant,,E	T	ENSG00000136383
0	AMICA1,intron_variant,,E	C	ENSG00000160593
0	AMICA1,intron_variant,,E	G	ENSG00000160593
0	ANAPC1,synonymous_va	T	ENSG00000153107
1	ANK1,intron_variant,,EN	G	ENSG00000029534
0	ANKAR,intron_variant,,E	-	ENSG00000151687
0	ANKK1,intron_variant,,E	A	ENSG00000170209
0	ANKLE2,intron_variant,,E	A	ENSG00000176915
0	ANKRD18B,missense_va	C	ENSG00000230453
0	ANKRD26,intron_variant,	C	ENSG00000107890
0	ANKRD28,splice_region_	G	ENSG00000206560
0	ANKRD35,synonymous_	A	ENSG00000198483
0	ANKRD52,intron_variant,	T	ENSG00000139645
0	ANKRD55,intron_variant,	T	ENSG00000164512
0	AOX1,intron_variant,,EN	A	ENSG00000138356
0	AP002884.2,5_prime_UT	T	ENSG00000268472
0	AP1B1,intron_variant,,E	C	ENSG00000100280
0	AP2A1,intron_variant,,E	C	ENSG00000196961
0	AP4E1,intron_variant,,E	T	ENSG00000081014
0	AP4E1,missense_variant	A	ENSG00000081014
0	APBB1IP,intron_variant,,	T	ENSG00000077420
0	APOOL,intron_variant,,E	T	ENSG00000155008
0	AQP12A,missense_varia	G	ENSG00000184945
1	AQP12A,5_prime_UTR_	G	ENSG00000184945
0	AQP4,intron_variant,,EN	G	ENSG00000171885
0	AQPEP,missense_varian	T	ENSG00000172901
0	ARF3,intron_variant,,EN	-	ENSG00000134287
0	ARHGAP10,missense_va	G	ENSG00000071205
0	ARHGAP19-SLIT1,intron	G	ENSG00000269891
0	ARHGAP36,intron_variar	C	ENSG00000147256
0	ARHGAP4,synonymous_	T	ENSG00000089820
0	ARHGEF11,intron_variar	T	ENSG00000132694
1	ARHGEF16,5_prime_UT	A	ENSG00000130762
0	ARHGEF2,intron_variant	G	ENSG00000116584
0	ARHGEF3,missense_var	C	ENSG00000163947
0	ARHGEF7,synonymous_	C	ENSG00000102606
0	ARID3C,intron_variant,,E	G	ENSG00000205143
0	ARL5B,splice_region_va	A	ENSG00000165997
0	ARMC8,intron_variant,,E	T	ENSG00000114098
0	ARMCX4,5_prime_UTR_	T	ENSG00000196440
0	ARMCX4,missense_varia	G	ENSG00000196440
0	ARMCX4,upstream_gene	A	ENSG00000196440
0	ARMCX4,synonymous_v	T	ENSG00000196440
0	ARRB2,intron_variant,,E	G	ENSG00000141480
0	ARRDC2,intron_variant,,l	A	ENSG00000105643
0	ARRDC2,missense_varia	A	ENSG00000105643
0	ARSA,missense_variant,	A	ENSG00000100299
0	ARVCF,intron_variant,,E	G	ENSG00000099889
1	ASB10,intron_variant,,E	T	ENSG00000146926
0	ASB14,intron_variant,,E	G	ENSG00000239388
0	ASB4,intron_variant,,EN	-	ENSG00000005981

VEP annotated somatic variants

0	ASB6,5_prime_UTR_vari	T	ENSG00000148331
0	ASIC4,intron_variant,,EN	A	ENSG00000072182
0	ASPSCR1,intron_variant,	T	ENSG00000169696
0	ASTL,intron_variant,,ENS	A	ENSG00000188886
0	ASTL,intron_variant,,ENS	G	ENSG00000188886
0	ASTN2,5_prime_UTR_va	C	ENSG00000148219
1	ASXL3,intron_variant,,EM	A	ENSG00000141431
0	ASZ1,intron_variant,,ENS	T	ENSG00000154438
0	ATG4C,intron_variant,,EI	G	ENSG00000125703
0	ATL1,intron_variant,,ENS	C	ENSG00000198513
0	ATP11A,3_prime_UTR_\v	A	ENSG00000068650
0	ATP13A2,synonymous_v	A	ENSG00000159363
0	ATP1A2,synonymous_va	T	ENSG00000018625
0	ATP1A4,intron_variant,,E	G	ENSG00000132681
1	ATP2C2,intron_variant,,E	G	ENSG00000064270
0	ATP5C1,intron_variant,,E	T	ENSG00000165629
0	ATP7A,intron_variant,,EM	A	ENSG00000165240
0	ATP8B1,intron_variant,,E	A	ENSG00000081923
0	ATP9A,intron_variant,,EM	A	ENSG00000054793
0	ATP9A,intron_variant,,EM	A	ENSG00000054793
0	ATRIP,intron_variant,,EN	G	ENSG00000164053
0	ATXN2L,intron_variant,,E	T	ENSG00000168488
0	AWAT1,intron_variant,,E	T	ENSG00000204195
0	AWAT2,splice_region_va	G	ENSG00000147160
0	AXDND1,missense_varia	C	ENSG00000162779
0	AXIN1,intron_variant,,EN	C	ENSG00000103126
0	B3GNT3,missense_varia	A	ENSG00000179913
0	BAIAP2,intron_variant,,EI	T	ENSG00000175866
0	BAIAP3,intron_variant,,EI	A	ENSG00000007516
0	BBS12,missense_variant	A	ENSG00000181004
0	BCKDHA,5_prime_UTR_\v	G	ENSG00000248098
0	BCL7B,intron_variant,,EM	C	ENSG00000106635
0	BCORL1,intron_variant,,I	T	ENSG00000085185
0	BEST1,intron_variant,,EM	T	ENSG00000167995
0	BICD1,splice_donor_vari	A	ENSG00000151746
0	BLNK,intron_variant,,ENS	A	ENSG00000095585
0	BMP15,missense_varian	G	ENSG00000130385
1	BNC1,intron_variant,,ENS	G	ENSG00000169594
0	BPIFB2,intron_variant,,EI	A	ENSG00000078898
0	BPTF,intron_variant,,ENS	T	ENSG00000171634
1	BRCA1,intron_variant,,EI	T	ENSG00000012048
0	BRCA1,intron_variant,,EI	T	ENSG00000012048
0	BRCA1,intron_variant,,EI	C	ENSG00000012048
0	BRCA2,intron_variant,,EI	T	ENSG00000139618
0	BRD9,intron_variant,,ENS	T	ENSG00000028310
1	BRWD1,synonymous_va	A	ENSG00000185658
0	BSDC1,3_prime_UTR_\v	G	ENSG00000160058
0	BSG,intron_variant,,ENS	C	ENSG00000172270
0	BSG,intron_variant,,ENS	T	ENSG00000172270
0	BTBD16,intron_variant,,E	T	ENSG00000138152
0	BTBD16,missense_varia	A	ENSG00000138152
0	BTBD8,intron_variant,,EM	A	ENSG00000189195
0	BTG1,intron_variant,,ENS	T	ENSG00000133639
0	BTNL9,synonymous_vari	T	ENSG00000165810
0	BZRAP1,intron_variant,,E	G	ENSG00000005379

VEP annotated somatic variants

0	CDH23,intron_variant,,ENTGTAGACCATGACTTT		ENSG00000214688
0	C10orf71,synonymous_v	C	ENSG00000177354
0	C10orf90,intron_variant,,l	A	ENSG00000154493
0	C11orf49,3_prime_UTR_	A	ENSG00000149179
0	C12orf49,missense_varia	C	ENSG00000111412
0	C12orf55,intron_variant,,l	T	ENSG00000188596
0	C12orf60,frameshift_vari	-	ENSG00000182993
0	C14orf164,intron_variant.	-	ENSG00000215277
0	C17orf107,downstream_	A	ENSG00000205710
0	C17orf53,3_prime_UTR_	C	ENSG00000125319
0	C19orf26,missense_varia	C	ENSG00000099625
0	C19orf33,5_prime_UTR_	C	ENSG00000167644
0	C1GALT1C1,missense_	T	ENSG00000171155
0	C1orf101,synonymous_v	G	ENSG00000179397
0	C1orf141,intron_variant,,l	-	ENSG00000203963
0	C1orf168,intron_variant,,l	C	ENSG00000187889
0	C1orf173,splice_region_	C	ENSG00000178965
0	C1QTNF1,intron_variant,	C	ENSG00000173918
0	C2orf54,3_prime_UTR_v	C	ENSG00000172478
0	C2orf81,5_prime_UTR_v	A	ENSG00000159239
0	C3,intron_variant,,ENSTC	T	ENSG00000125730
0	C4orf29,intron_variant,,E	A	ENSG00000164074
0	C5,intron_variant,,ENSTC	G	ENSG00000106804
0	C5,intron_variant,,ENSTC	C	ENSG00000106804
0	C6orf201,missense_varia	C	ENSG00000185689
0	C7,intron_variant,,ENSTC	T	ENSG00000112936
0	CA10,intron_variant,,ENS	G	ENSG00000154975
0	CA5A,synonymous_varia	A	ENSG00000174990
0	CABIN1,missense_variar	T	ENSG00000099991
0	CACNA1A,intron_variant	-	ENSG00000141837
0	CACNA1B,splice_region_	C	ENSG00000148408
0	CACNA1C,intron_variant	T	ENSG00000151067
0	CACNA2D2,intron_variar	A	ENSG00000007402
0	CACNA2D2,intron_variar	G	ENSG00000007402
0	CACNB2,intron_variant,,l	C	ENSG00000165995
0	CAGE1,intron_variant,,El	C	ENSG00000164304
1	CALD1,intron_variant,,EM	T	ENSG00000122786
0	CALR,5_prime_UTR_var	A	ENSG00000179218
0	CAMK1D,3_prime_UTR_	A	ENSG00000183049
0	CAMK2D,intron_variant,,	A	ENSG00000145349
0	CAMKMT,intron_variant,,	T	ENSG00000143919
0	CAMSAP3,synonymous_	T	ENSG00000076826
0	CAPN11,intron_variant,,E	T	ENSG00000137225
0	CAPN9,intron_variant,,El	T	ENSG00000135773
0	CAPS,intron_variant,,EN	T	ENSG00000105519
0	CARD10,intron_variant,,E	C	ENSG00000100065
0	CARD8,intron_variant,,El	A	ENSG00000105483
0	CASP14,3_prime_UTR_	T	ENSG00000105141
0	CASQ1,intron_variant,,El	C	ENSG00000143318
0	CASZ1,intron_variant,,EM	A	ENSG00000130940
0	CATSPERG,intron_varia	G	ENSG00000099338
0	CAV3,synonymous_varia	T	ENSG00000182533
0	CCDC102A,synonymous	T	ENSG00000135736
1	CCDC104,intron_variant,	-	ENSG00000163001
0	CCDC105,missense_vari	A	ENSG00000160994

VEP annotated somatic variants

0	CCDC11,intron_variant,,f	A	ENSG00000172361
0	CCDC120,3_prime_UTR	A	ENSG00000147144
0	CCDC132,3_prime_UTR	G	ENSG00000004766
0	CCDC137,intron_variant,	C	ENSG00000185298
0	CCDC147,synonymous_v	G	ENSG00000120051
0	CCDC158,missense_vari	A	ENSG00000163749
0	CCDC169-SOHLH2,intro	T	ENSG00000250709
0	CCDC18,intron_variant,,f	A	ENSG00000122483
0	CCDC57,synonymous_va	A	ENSG00000176155
0	CCDC6,intron_variant,,El	T	ENSG00000108091
0	CCDC81,intron_variant,,f	A	ENSG00000149201
0	CCL19,intron_variant,,EM	T	ENSG00000172724
1	CCR2,synonymous_varia	A	ENSG00000121807
0	CD109,missense_variant	G	ENSG00000156535
0	CD200R1L,frameshift_va	-	ENSG00000206531
0	CD244,intron_variant,,EM	G	ENSG00000122223
0	CD300A,intron_variant,,E	-	ENSG00000167851
0	CD3EAP,missense_varia	C	ENSG00000117877
0	CD46,intron_variant,,ENS	G	ENSG00000117335
0	CD7,inframe_deletion,p./	-	ENSG00000173762
0	CDC23,upstream_gene_	A	ENSG00000094880
0	CDC42BPG,intron_variar	C	ENSG00000171219
0	CDC45,intron_variant,,El	T	ENSG00000093009
0	CDCP1,missense_varian	C	ENSG00000163814
0	CDH18,intron_variant,,El	T	ENSG00000145526
0	CDK19,intron_variant,,EM	C	ENSG00000155111
0	CDK3,intron_variant,,ENS	A	ENSG00000250506
0	CDK7,intron_variant,,ENS	T	ENSG00000134058
0	CDKAL1,synonymous_va	G	ENSG00000145996
0	CDKL5,intron_variant,,EM	A	ENSG00000008086
0	CDS2,intron_variant,,ENS	A	ENSG00000101290
0	CDSN,intron_variant,,EN	A	ENSG00000204539
0	CDSN,5_prime_UTR_vari	G	ENSG00000204539
0	CEACAM21,intron_variar	A	ENSG00000007129
0	CEACAM3,intron_variant	AAG	ENSG00000170956
0	CECR1,intron_variant,,El	T	ENSG00000093072
0	CECR2,intron_variant,,El	C	ENSG00000099954
0	CECR2,missense_varian	A	ENSG00000099954
0	CECR5,intron_variant,,El	C	ENSG00000069998
1	CECR6,synonymous_var	C	ENSG00000183307
0	CENPI,intron_variant,,EM	-	ENSG00000102384
0	CENPW,missense_varia	T	ENSG00000203760
0	CEP250,intron_variant,,E	T	ENSG00000126001
1	CEP250,intron_variant,,E	A	ENSG00000126001
0	CEP63,intron_variant,,EM	C	ENSG00000182923
0	CEP63,intron_variant,,EM	T	ENSG00000182923
0	CEP70,missense_variant	T	ENSG00000114107
0	CEP95,intron_variant,,EM	T	ENSG00000258890
0	CERCAM,intron_variant,,	G	ENSG00000167123
0	CES2,intron_variant,,ENS	A	ENSG00000172831
0	CFH,missense_variant,p.	T	ENSG00000000971
0	CFTR,synonymous_varia	A	ENSG00000001626
0	CGB7,5_prime_UTR_var	C	ENSG00000196337
1	CHD1L,synonymous_var	C	ENSG00000131778
1	CHFR,intron_variant,,EN	A	ENSG00000072609

VEP annotated somatic variants

0	CHFR,intron_variant,,EN	C	ENSG00000072609
0	CHI3L2,missense_varian	T	ENSG00000064886
1	CHRNA1,3_prime_UTR_	C	ENSG00000170175
0	CHST14,3_prime_UTR_	A	ENSG00000169105
0	CIITA,intron_variant,,EN	T	ENSG00000179583
0	CINP,synonymous_varia	A	ENSG00000100865
0	CIT,intron_variant,,EN	T	ENSG00000122966
0	CITED1,missense_variar	C	ENSG00000125931
0	CKMT2,intron_variant,,E	C	ENSG00000131730
0	CLCN6,intron_variant,,E	A	ENSG00000011021
0	CLCNKA,intron_variant,,	A	ENSG00000186510
0	CLDN15,3_prime_UTR_	T	ENSG00000106404
0	CLEC4E,5_prime_UTR_	C	ENSG00000166523
0	CLIC2,3_prime_UTR_val	G	ENSG00000155962
0	CLIC4,splice_acceptor_v	T	ENSG00000169504
0	CLIP1,intron_variant,,EN	T	ENSG00000130779
0	CLIP4,intron_variant,,EN	A	ENSG00000115295
0	CNCSR2,intron_variant,,	C	ENSG00000149970
1	CNNM1,intron_variant,,E	A	ENSG00000119946
0	CNOT1,synonymous_var	A	ENSG00000125107
0	CNOT11,intron_variant,,	G	ENSG00000158435
0	CNR1,synonymous_varia	T	ENSG00000118432
0	CNTN4,intron_variant,,E	A	ENSG00000144619
0	CNTNAP2,intron_variant.	C	ENSG00000174469
0	CNTNAP2,splice_region_	G	ENSG00000174469
0	CNTRL,intron_variant,,E	G	ENSG00000119397
0	COBL,synonymous_varia	T	ENSG00000106078
0	COG4,intron_variant,,EN	G	ENSG00000103051
0	COG5,intron_variant,,EN	G	ENSG00000164597
0	COL17A1,intron_variant,,AATGGAGACAATGTTG		ENSG00000065618
0	COL23A1,intron_variant,,	A	ENSG00000050767
0	COL24A1,intron_variant,,	C	ENSG00000171502
0	COL24A1,intron_variant,,	A	ENSG00000171502
0	COL26A1,missense_vari	A	ENSG00000160963
1	COL4A6,intron_variant,,E	C	ENSG00000197565
0	COL5A3,intron_variant,,E	T	ENSG00000080573
0	COL6A1,intron_variant,,E	C	ENSG00000142156
0	COL6A3,intron_variant,,E	-	ENSG00000163359
0	COMT,synonymous_varia	G	ENSG00000093010
0	COX20,intron_variant,,E	G	ENSG00000203667
0	CP,intron_variant,,EN	C	ENSG00000047457
0	CPEB1,5_prime_UTR_va	T	ENSG00000214575
0	CPEB4,3_prime_UTR_va	A	ENSG00000113742
0	CR2,missense_variant,p.	G	ENSG00000117322
0	CRB2,intron_variant,,EN	A	ENSG00000148204
0	CRHR2,intron_variant,,E	G	ENSG00000106113
0	CRIM1,intron_variant,,EN	A	ENSG00000150938
0	CRIM1,intron_variant,,EN	A	ENSG00000150938
0	CRISP3,synonymous_va	T	ENSG00000096006
0	CRNKL1,intron_variant,,E TTGGGCATTGTCTGT		ENSG00000101343
0	CRTC3,intron_variant,,E	T	ENSG00000140577
0	CRYBG3,intron_variant,,	C	ENSG00000080200
0	CRYBG3,5_prime_UTR_	T	ENSG00000233280
0	CSAG1,5_prime_UTR_va	A	ENSG00000198930
0	CSNK2A1,intron_variant,	T	ENSG00000101266



VEP annotated somatic variants

0	CSPG4,synonymous_var	G	ENSG00000173546
0	CTCF,5_prime_UTR_va	A	ENSG00000124092
0	CTD-3088G3.8,synonym	T	ENSG00000188897
0	CTNNA3,intron_variant,,I	C	ENSG00000183230
0	CTNNAL1,synonymous_	T	ENSG00000119326
0	CUBN,synonymous_varia	A	ENSG00000107611
0	CUL2,intron_variant,,ENS	G	ENSG00000108094
1	CUL7,missense_variant,,I	G	ENSG00000044090
0	CUX1,intron_variant,,ENS	G	ENSG00000257923
0	CUX1,missense_variant,,I	A	ENSG00000257923
1	CWC22,intron_variant,,E	T	ENSG00000163510
0	CWC22,synonymous_var	T	ENSG00000163510
0	CWF19L2,missense_vari	A	ENSG00000152404
0	CXCR3,5_prime_UTR_va	T	ENSG00000186810
0	CYB561A3,3_prime_UTF	A	ENSG00000162144
0	CYB5R2,intron_variant,,E	A	ENSG00000166394
0	CYP2A13,intron_variant,,	G	ENSG00000197838
0	CYP2A13,intron_variant,,	T	ENSG00000197838
0	CYP3A4,intron_variant,,E	-	ENSG00000160868
0	CYP4F12,missense_vari	T	ENSG00000186204
0	CYP51A1,intron_variant,,	A	ENSG00000001630
0	DAGLA,synonymous_var	A	ENSG00000134780
0	DARS,intron_variant,,EN	C	ENSG00000115866
0	DBR1,intron_variant,,EN	G	ENSG00000138231
0	DCAF15,intron_variant,,E	C	ENSG00000132017
0	DCAF15,synonymous_va	C	ENSG00000132017
0	DCAF15,intron_variant,,E	A	ENSG00000132017
0	DCC,intron_variant,,ENS	G	ENSG00000187323
0	DCDC2,synonymous_var	A	ENSG00000146038
0	DCHS2,5_prime_UTR_va	G	ENSG00000197410
0	DCTD,synonymous_varia	G	ENSG00000129187
0	DDX11,intron_variant,,EM	C	ENSG00000013573
0	DDX11,intron_variant,,EM	C	ENSG00000013573
0	DDX59,intron_variant,,EM	T	ENSG00000118197
0	DENND1A,intron_variant	C	ENSG00000119522
0	DENND5A,missense_var	G	ENSG00000184014
0	DEPDC1B,intron_variant	C	ENSG00000035499
0	DGCR2,intron_variant,,E	A	ENSG00000070413
0	DGKB,intron_variant,,EN	A	ENSG00000136267
0	DHRS3,intron_variant,,EI	T	ENSG00000162496
0	DHX32,intron_variant,,EM	TG	ENSG00000089876
0	DHX37,intron_variant,,EM	T	ENSG00000150990
0	DHX8,synonymous_varia	C	ENSG00000067596
0	DHX8,intron_variant,,EN	G	ENSG00000067596
0	DHX8,intron_variant,,EN	A	ENSG00000067596
0	DIAPH1,intron_variant,,E	C	ENSG00000131504
0	DIP2B,intron_variant,,EN	A	ENSG00000066084
0	DIS3L,3_prime_UTR_va	-	ENSG00000166938
0	DISC1,3_prime_UTR_va	G	ENSG00000162946
0	DISC1,3_prime_UTR_va	T	ENSG00000162946
0	DKK4,intron_variant,,EN	A	ENSG00000104371
0	DLG2,3_prime_UTR_var	G	ENSG00000150672
0	DLG3,missense_variant,,I	G	ENSG00000082458
0	DLG5,intron_variant,,EN	T	ENSG00000151208
0	DLK2,intron_variant,,ENS	T	ENSG00000171462

VEP annotated somatic variants

0	DMKN,intron_variant,,EN	T	ENSG00000161249
0	DNA2,intron_variant,,EN	G	ENSG00000138346
0	DNAH11,intron_variant,,E	C	ENSG00000105877
0	DNAH12,intron_variant,,E	G	ENSG00000174844
0	DNAH14,intron_variant,,E	T	ENSG00000185842
0	DNAH14,intron_variant,,E	G	ENSG00000185842
0	DNAH14,intron_variant,,E	G	ENSG00000185842
0	DNAH14,intron_variant,,E	G	ENSG00000185842
0	DNAH14,intron_variant,,E	G	ENSG00000185842
0	DNAH17,intron_variant,,E	T	ENSG00000187775
0	DNAH8,intron_variant,,E	C	ENSG00000124721
0	DNAH9,intron_variant,,E	C	ENSG00000007174
0	DNALI1,splice_region_va	C	ENSG00000163879
0	DNASE2B,intron_variant,	A	ENSG00000137976
0	DNMBP,intron_variant,,E	-	ENSG00000107554
0	DOCK2,intron_variant,,E	G	ENSG00000134516
1	DOCK3,intron_variant,,E	T	ENSG00000088538
0	DOT1L,synonymous_var	A	ENSG00000104885
0	DPEP1,missense_varian	C	ENSG00000015413
1	DPF1,intron_variant,,EN	C	ENSG00000011332
1	DPH5,intron_variant,,EN	G	ENSG00000117543
0	DPY19L2,splice_region_	T	ENSG00000177990
0	DRAXIN,splice_region_v	A	ENSG00000162490
0	DRP2,intron_variant,,EN	T	ENSG00000102385
0	DRP2,intron_variant,,EN	C	ENSG00000102385
0	DRP2,intron_variant,,EN	A	ENSG00000102385
0	DSCAML1,intron_variant	A	ENSG00000177103
0	DSG3,intron_variant,,EN	-	ENSG00000134757
0	DSG4,synonymous_varia	A	ENSG00000175065
0	DSG4,synonymous_varia	T	ENSG00000175065
0	DSP,intron_variant,,EN	T	ENSG00000096696
0	DST,intron_variant,,EN	G	ENSG00000151914
0	DTD2,intron_variant,,EN	A	ENSG00000129480
0	DTNBP1,intron_variant,,E	C	ENSG00000047579
0	DTWD2,intron_variant,,E	C	ENSG00000169570
0	DTX2,synonymous_varia	A	ENSG00000091073
0	DUSP18,5_prime_UTR_	C	ENSG00000167065
0	DUSP6,missense_varian	C	ENSG00000139318
0	DYNC111,intron_variant,,	A	ENSG00000158560
0	DYNC2H1,intron_variant,	C	ENSG00000187240
0	EBNA1BP2,5_prime_UTI	G	ENSG00000117395
0	EBP,missense_variant,p.	T	ENSG00000147155
0	ECE1,missense_variant,j	A	ENSG00000117298
0	ECEL1,intron_variant,,EN	G	ENSG00000171551
0	ECT2,intron_variant,,EN	A	ENSG00000114346
0	ECT2L,intron_variant,,EN	T	ENSG00000203734
0	EDEM3,intron_variant,,E	A	ENSG00000116406
0	EDN1,intron_variant,,EN	T	ENSG00000078401
0	EDNRB,intron_variant,,E	T	ENSG00000136160
0	EEA1,intron_variant,,EN	T	ENSG00000102189
0	EEF1A2,intron_variant,,E	C	ENSG00000101210
0	EEF1E1,intron_variant,,E	GGGGTGGGAATCACC	ENSG00000124802
0	EFCAB13,intron_variant,	G	ENSG00000178852
0	EFCAB3,intron_variant,,E	-	ENSG00000172421
0	EFCAB4B,intron_variant,	A	ENSG00000130038

VEP annotated somatic variants

0	EFHB,synonymous_varia	T	ENSG00000163576
0	EFTUD1,intron_variant,,E	T	ENSG00000140598
0	EFTUD2,intron_variant,,E	G	ENSG00000108883
0	EIF2S3,synonymous_var	T	ENSG00000130741
0	ELF4,synonymous_varia	T	ENSG00000102034
0	ELFN2,synonymous_vari	A	ENSG00000166897
0	ELFN2,synonymous_vari	T	ENSG00000166897
0	ELFN2,synonymous_vari	G	ENSG00000166897
0	ELN,intron_variant,,ENS	T	ENSG00000049540
0	ELOVL2,splice_region_v	A	ENSG00000197977
0	EMC1,missense_variant,	G	ENSG00000127463
0	EMC2,intron_variant,,EN	T	ENSG00000104412
0	EMC2,intron_variant,,EN	G	ENSG00000104412
0	EML1,missense_variant,,j	C	ENSG00000066629
0	EML1,intron_variant,,ENS	C	ENSG00000066629
0	EML1,intron_variant,,ENS	G	ENSG00000066629
0	EN1,synonymous_varian	T	ENSG00000163064
2	ENG,intron_variant,,ENS	G	ENSG00000106991
0	ENOX1,intron_variant,,El	T	ENSG00000120658
0	ENTPD1,intron_variant,,E	C	ENSG00000138185
0	ENTPD5,intron_variant,,E	T	ENSG00000187097
0	EP400,intron_variant,,EN	A	ENSG00000183495
0	EPHB6,intron_variant,,El	A	ENSG00000106123
0	EPHX1,missense_varian	G	ENSG00000143819
0	EPHX2,synonymous_var	T	ENSG00000120915
0	ERN1,intron_variant,,ENS	A	ENSG00000178607
0	ESPL1,intron_variant,,EM	G	ENSG00000135476
0	ESYT3,missense_variant	A	ENSG00000158220
0	ETFA,missense_variant,,j	A	ENSG00000140374
0	ETFB,missense_variant,,j	A	ENSG00000105379
0	ETHE1,synonymous_vari	T	ENSG00000105755
0	EVI5,intron_variant,,ENS	T	ENSG00000067208
1	EVI5L,intron_variant,,ENS	T	ENSG00000142459
0	EVI5L,intron_variant,,ENS	T	ENSG00000142459
0	EVPL,intron_variant,,ENS	T	ENSG00000167880
0	EVPL,synonymous_varia	T	ENSG00000167880
0	EXD2,intron_variant,,ENS	A	ENSG00000081177
0	EXO1,missense_variant,,j	A	ENSG00000174371
0	EXOC1,intron_variant,,El	T	ENSG00000090989
0	EZR,intron_variant,,ENS	C	ENSG00000092820
0	F8,missense_variant,p.A	C	ENSG00000185010
0	F8,intron_variant,,ENSTC	T	ENSG00000185010
0	F9,missense_variant,p.V	A	ENSG00000101981
0	FAAH2,intron_variant,,EM	A	ENSG00000165591
0	FADS2,intron_variant,,EM	G	ENSG00000134824
0	FADS3,intron_variant,,EM	G	ENSG00000221968
0	FAH,intron_variant,,ENS	G	ENSG00000103876
0	FAM118A,missense_vari	A	ENSG00000100376
0	FAM122C,3_prime_UTR	CG	ENSG00000156500
0	FAM122C,3_prime_UTR CCTAGATGCAGGAG		ENSG00000156500
1	FAM127C,3_prime_UTR	C	ENSG00000212747
0	FAM127C,3_prime_UTR	T	ENSG00000212747
0	FAM135B,intron_variant,	C	ENSG00000147724
0	FAM162B,synonymous_\	A	ENSG00000183807
0	FAM168A,intron_variant,	A	ENSG00000054965

VEP annotated somatic variants

0	FAM181B,3_prime_UTR	T	ENSG00000182103
0	FAM184B,intron_variant	G	ENSG00000047662
0	FAM186A,intron_variant	A	ENSG00000185958
0	FAM187B,upstream_gen	G	ENSG00000177558
0	FAM189B,intron_variant	A	ENSG00000160767
0	FAM21C,5_prime_UTR	G	ENSG00000172661
0	FAM63A,intron_variant,,E	A	ENSG00000143409
0	FAM65B,synonymous_va	G	ENSG00000111913
0	FAM81B,missense_varia	T	ENSG00000153347
0	FANCA,intron_variant,,El	A	ENSG00000187741
0	FANCE,intron_variant,,El	G	ENSG00000112039
0	FANCE,intron_variant,,El	G	ENSG00000112039
0	FANCE,synonymous_var	C	ENSG00000112039
0	FAR2,3_prime_UTR_vari	C	ENSG00000064763
0	FARP2,intron_variant,,EM	C	ENSG00000006607
0	FARP2,3_prime_UTR_va	T	ENSG00000006607
0	FASN,synonymous_varia	A	ENSG00000169710
0	FASN,intron_variant,,EN	A	ENSG00000169710
0	FASN,intron_variant,,EN	A	ENSG00000169710
0	CCDC57,3_prime_UTR	T	ENSG00000169710
0	FBLN2,missense_variant	T	ENSG00000163520
0	FBN3,missense_variant,p	C	ENSG00000142449
0	FBRSL1,intron_variant,,E	A	ENSG00000112787
0	LECT2,intron_variant,,EM	A	ENSG00000164616
0	FBXO10,intron_variant,,E	A	ENSG00000147912
0	FBXO10,intron_variant,,E	G	ENSG00000147912
0	FBXO17,intron_variant,,E	A	ENSG00000269190
0	FBXW12,intron_variant,,l	T	ENSG00000164049
0	FBXW4,intron_variant,,E	T	ENSG00000107829
0	FCAMR,intron_variant,,E	T	ENSG00000162897
0	FCHO1,synonymous_var	A	ENSG00000130475
1	FGFR4,missense_varian	A	ENSG00000160867
0	FGG,3_prime_UTR_varia	A	ENSG00000171557
0	FHOD3,intron_variant,,El	C	ENSG00000134775
0	FHOD3,synonymous_var	T	ENSG00000134775
0	FHOD3,intron_variant,,El	T	ENSG00000134775
0	FIGN,intron_variant,,ENS	T	ENSG00000182263
0	FIP1L1,intron_variant,,EM	CCTTTTAAACAACCAG	ENSG00000145216
0	FKBP6,synonymous_vari	A	ENSG00000077800
0	FKBP7,intron_variant,,EM	A	ENSG00000079150
0	FLNA,missense_variant,p	A	ENSG00000196924
0	FLNB,intron_variant,,ENS	G	ENSG00000136068
0	FLT4,intron_variant,,ENS	GGTTACCCTA	ENSG00000037280
0	FMN2,intron_variant,,EN	C	ENSG00000155816
0	FMN2,intron_variant,,EN	A	ENSG00000155816
0	FMO3,synonymous_varia	T	ENSG00000007933
0	FNBP4,inframe_deletion,	-	ENSG00000109920
0	FNBP4,intron_variant,,EM	T	ENSG00000109920
0	FNDC1,intron_variant,,El	T	ENSG00000164694
0	FNDC1,synonymous_var	G	ENSG00000164694
0	FOXF2,synonymous_var	C	ENSG00000137273
0	FOXP4,intron_variant,,EM	A	ENSG00000137166
0	FPGS,3_prime_UTR_var	C	ENSG00000136877
0	FRAS1,synonymous_vari	C	ENSG00000138759
0	FRAS1,intron_variant,,EM	G	ENSG00000138759

VEP annotated somatic variants

0	FRAS1,synonymous_vari	T	ENSG00000138759
0	FRAS1,intron_variant,,E	A	ENSG00000138759
0	FRAS1,intron_variant,,E	T	ENSG00000138759
0	FREM3,synonymous_var	T	ENSG00000183090
1	FRMD4A,intron_variant,,l	T	ENSG00000151474
0	FSIP1,intron_variant,,EN	A	ENSG00000150667
0	FSTL5,intron_variant,,EN	A	ENSG00000168843
0	FUBP3,synonymous_vari	T	ENSG00000107164
0	FUT1,intron_variant,,ENS	A	ENSG00000174951
0	FUT6,splice_region_vari	C	ENSG00000156413
1	FXVD2,intron_variant,,E	C	ENSG00000137731
0	FYCO1,intron_variant,,E	C	ENSG00000163820
0	GADL1,intron_variant,,E	A	ENSG00000144644
0	GAK,intron_variant,,ENS	T	ENSG00000178950
0	GAK,intron_variant,,ENS	-	ENSG00000178950
1	GALC,intron_variant,,EN	A	ENSG00000054983
0	GALC,intron_variant,,EN	G	ENSG00000054983
0	GALK1,intron_variant,,E	T	ENSG00000108479
0	GALNT10,intron_variant,	G	ENSG00000164574
0	GALNT14,missense_vari	T	ENSG00000158089
0	GALNT8,missense_varia	G	ENSG00000130035
0	GALNT8,missense_varia	T	ENSG00000130035
0	GAREM,synonymous_va	C	ENSG00000141441
0	GAREM,missense_variar	A	ENSG00000141441
0	GAREM,3_prime_UTR_v	T	ENSG00000141441
0	GARNL3,5_prime_UTR_	C	ENSG00000136895
0	GBP5,5_prime_UTR_var	A	ENSG00000154451
0	GBP5,intron_variant,,EN	T	ENSG00000154451
0	GBP5,synonymous_varia	A	ENSG00000154451
0	GCGR,synonymous_vari	T	ENSG00000215644
1	GCNT2,synonymous_var	G	ENSG00000111846
0	GDA,splice_region_varia	G	ENSG00000119125
0	GDAP1L1,intron_variant,	G	ENSG00000124194
0	GDF2,intron_variant,,EN	C	ENSG00000128802
0	GEMIN2,intron_variant,,E	G	ENSG00000092208
0	GFM1,intron_variant,,EN	G	ENSG00000168827
0	GGCX,intron_variant,,EN	T	ENSG00000115486
0	GGN,missense_variant,p	G	ENSG00000179168
0	GGN,missense_variant,p	A	ENSG00000179168
0	GHDC,missense_variant	A	ENSG00000167925
0	GINM1,intron_variant,,E	A	ENSG00000055211
0	GINS1,missense_variant	A	ENSG00000101003
0	GLG1,synonymous_varia	A	ENSG00000090863
0	GLG1,intron_variant,,EN	A	ENSG00000090863
0	GLIS2,intron_variant,,EN	T	ENSG00000126603
0	GLO1,5_prime_UTR_var	A	ENSG00000124767
0	GLRA4,missense_varian	C	ENSG00000188828
0	GLRA4,intron_variant,,E	G	ENSG00000188828
0	GLT8D2,intron_variant,,E	A	ENSG00000120820
0	GLYATL2,intron_variant,,	C	ENSG00000156689
0	GMCL1,intron_variant,,E	T	ENSG00000087338
0	GNAZ,synonymous_vari	T	ENSG00000128266
1	GNB1L,missense_varian	T	ENSG00000185838
0	GNRHR,synonymous_va	A	ENSG00000109163
0	GOLGA3,synonymous_v	A	ENSG00000090615

VEP annotated somatic variants

1	GP1BA,splice_region_va	C	ENSG00000185245
0	GPC6,synonymous_varia	A	ENSG00000183098
0	GPLD1,intron_variant,,E	G	ENSG00000112293
0	GPM6B,intron_variant,,E	-	ENSG00000046653
0	GPN1,synonymous_varia	T	ENSG00000198522
0	GPR101,missense_varia	A	ENSG00000165370
0	GPR123,missense_varia	C	ENSG00000197177
0	GPR123,5_prime_UTR_v	T	ENSG00000197177
1	GPR123,intron_variant,,E	A	ENSG00000197177
0	GPR123,intron_variant,,E	A	ENSG00000197177
0	GPR176,intron_variant,,E	G	ENSG00000166073
0	GRAMD1B,synonymous_	C	ENSG00000023171
0	GRAMD1C,intron_varian	A	ENSG00000178075
0	GRAMD4,intron_variant,,	A	ENSG00000075240
0	GRAMD4,intron_variant,,	T	ENSG00000075240
0	GRAMD4,intron_variant,,	A	ENSG00000075240
0	GREB1,intron_variant,,E	A	ENSG00000196208
0	GRIA1,intron_variant,,E	T	ENSG00000155511
0	GRIA2,intron_variant,,E	A	ENSG00000120251
1	GRIA3,intron_variant,,E	A	ENSG00000125675
0	GRM7,synonymous_varia	T	ENSG00000196277
0	GSE1,intron_variant,,E	C	ENSG00000131149
0	GSN,missense_variant,p	T	ENSG00000148180
0	GSPT2,5_prime_UTR_va	T	ENSG00000189369
0	GSTP1,intron_variant,,E	T	ENSG00000084207
0	GSTZ1,5_prime_UTR_va	T	ENSG00000100577
0	GTPBP4,intron_variant,,E	T	ENSG00000107937
0	GTPBP4,3_prime_UTR_v	T	ENSG00000107937
0	GUCY2F,intron_variant,,I	A	ENSG00000101890
0	GXYLT2,3_prime_UTR_v	A	ENSG00000172986
0	HAL,intron_variant,,E	C	ENSG00000084110
0	HAMP,intron_variant,,E	T	ENSG00000105697
0	HDAC7,intron_variant,,E	C	ENSG00000061273
0	HDAC7,intron_variant,,E	C	ENSG00000061273
0	HDAC9,intron_variant,,E	T	ENSG00000048052
0	HDDC2,intron_variant,,E	A	ENSG00000111906
0	HDHD1,synonymous_var	T	ENSG00000130021
0	HEATR1,intron_variant,,E	A	ENSG00000119285
0	HEATR1,intron_variant,,E	A	ENSG00000119285
0	HEATR1,synonymous_va	T	ENSG00000119285
0	HEATR2,missense_varia	C	ENSG00000164818
0	HECTD1,intron_variant,,I	A	ENSG00000092148
0	HECTD1,intron_variant,,I	A	ENSG00000092148
0	HELLS,intron_variant,,E	C	ENSG00000119969
0	HELLS,intron_variant,,E	C	ENSG00000119969
0	HEMK1,intron_variant,,E	T	ENSG00000114735
0	HERC1,intron_variant,,E	A	ENSG00000103657
0	HFE,missense_variant,p	G	ENSG00000010704
0	HGF,synonymous_varian	T	ENSG00000019991
0	HHATL,intron_variant,,E	C	ENSG00000010282
0	HHIPL1,3_prime_UTR_v	A	ENSG00000182218
0	HIGD1B,synonymous_va	T	ENSG00000131097
0	HINT1,3_prime_UTR_va	A	ENSG00000169567
0	HIST1H2BF,3_prime_UT	T	ENSG00000197846
0	HIST1H3D,intron_variant	T	ENSG00000197409

VEP annotated somatic variants

0	HIST1H4B,synonymous_	A	ENSG00000124529
0	HKDC1,intron_variant,,E	-	ENSG00000156510
0	HLA-DPB1,missense_va	A	ENSG00000223865
0	HLCS,intron_variant,,EN	T	ENSG00000159267
0	HLTF,intron_variant,,ENS	-	ENSG00000071794
0	HMBS,synonymous_vari	T	ENSG00000256269
0	HMGXB4,intron_variant,,	A	ENSG00000100281
0	HMGXB4,missense_vari	T	ENSG00000100281
0	HNF1A,intron_variant,,E	A	ENSG00000135100
0	HNRNPUL1,intron_variar	A	ENSG00000105323
0	HOKK2,synonymous_vari	T	ENSG00000095066
0	HPN,intron_variant,,ENS	C	ENSG00000105707
0	HPS6,synonymous_varia	A	ENSG00000166189
0	HSPB6,splice_region_va	T	ENSG00000004776
0	HTR5A,synonymous_var	A	ENSG00000157219
0	HUWE1,synonymous_va	C	ENSG00000086758
0	HUWE1,missense_variar	T	ENSG00000086758
0	ICOSLG,missense_varia	T	ENSG00000160223
0	ICOSLG,intron_variant,,E	T	ENSG00000160223
0	ICOSLG,3_prime_UTR_\	G	ENSG00000160223
0	IDH2,intron_variant,,ENS	C	ENSG00000182054
0	IDH3A,intron_variant,,EN	G	ENSG00000166411
0	IFI16,missense_variant,p	C	ENSG00000163565
0	IFNAR2,missense_variar	G	ENSG00000159110
0	IGF1R,intron_variant,,EN	G	ENSG00000140443
0	IGF2R,intron_variant,,EN	G	ENSG00000197081
0	IGF2R,splice_region_var	A	ENSG00000197081
0	IGF2R,intron_variant,,EN	A	ENSG00000197081
0	IGLON5,intron_variant,,E	T	ENSG00000142549
0	IGSF1,synonymous_vari	C	ENSG00000147255
0	IGSF1,synonymous_vari	G	ENSG00000147255
0	IGSF1,intron_variant,,EN	A	ENSG00000147255
0	IGSF11,intron_variant,,E	A	ENSG00000144847
0	IGSF11,missense_variar	A	ENSG00000144847
0	IGSF11,intron_variant,,E	G	ENSG00000144847
0	IGSF22,splice_region_va	C	ENSG00000179057
0	IGSF9B,intron_variant,,E	-	ENSG00000080854
0	IKBKAP,synonymous_va	G	ENSG00000070061
0	IL17RC,intron_variant,,E	-	ENSG00000163702
0	IL20RA,missense_varian	T	ENSG00000016402
0	IL22RA1,intron_variant,,E	T	ENSG00000142677
0	IL2RA,3_prime_UTR_var	T	ENSG00000134460
0	INO80E,3_prime_UTR_v	C	ENSG00000169592
0	INS,missense_variant,p./	A	ENSG00000254647
0	IGF2,intron_variant,,ENS	G	ENSG00000129965
0	INSR,synonymous_variar	T	ENSG00000171105
0	INSR,intron_variant,,ENS	G	ENSG00000171105
0	INTS1,intron_variant,,EN	A	ENSG00000164880
0	INTS1,intron_variant,,EN	A	ENSG00000164880
0	INTS6,intron_variant,,EN	A	ENSG00000102786
0	IQGAP2,intron_variant,,E	G	ENSG00000145703
0	IQGAP3,intron_variant,,E	-	ENSG00000183856
0	IQSEC3,intron_variant,,E	A	ENSG00000120645
0	IRF5,intron_variant,,ENS	A	ENSG00000128604
0	IRGC,synonymous_varia	C	ENSG00000124449

VEP annotated somatic variants

0	ITGA10,intron_variant,,E	G	ENSG00000143127
0	ITGA10,intron_variant,,E	C	ENSG00000143127
0	ITGA4,intron_variant,,EN	C	ENSG00000115232
0	ITGA9,intron_variant,,EN	A	ENSG00000144668
0	ITIH4,intron_variant,,ENS	C	ENSG00000055955
0	ITIH4,synonymous_varia	T	ENSG00000055955
0	ITIH4,intron_variant,,ENS	C	ENSG00000055955
0	ITM2A,intron_variant,,EN	G	ENSG00000078596
0	ITPKB,intron_variant,,EN	C	ENSG00000143772
0	ITPR2,intron_variant,,EN	T	ENSG00000123104
0	ITPR2,intron_variant,,EN	GAAGCTG	ENSG00000123104
0	ITPR3,splice_region_vari	A	ENSG00000096433
0	ITPRIP,synonymous_vari	A	ENSG00000148841
0	ITSN1,intron_variant,,EN	A	ENSG00000205726
0	ITSN1,intron_variant,,EN	C	ENSG00000205726
0	JADE1,intron_variant,,EN	T	ENSG00000077684
0	JADE3,intron_variant,,EN	A	ENSG00000102221
0	JAKMIP3,intron_variant,,	G	ENSG00000188385
0	JARID2,intron_variant,,E	A	ENSG00000008083
0	JARID2,intron_variant,,E	G	ENSG00000008083
0	JARID2,synonymous_vari	T	ENSG00000008083
0	JRKL,3_prime_UTR_vari	-	ENSG00000183340
0	KANK1,3_prime_UTR_va	T	ENSG00000107104
0	KANK4,intron_variant,,E	G	ENSG00000132854
0	KANK4,synonymous_var	A	ENSG00000132854
1	KANK4,synonymous_var	A	ENSG00000132854
0	KATNA1,synonymous_va	T	ENSG00000186625
0	KCNA7,missense_varian	C	ENSG00000104848
0	KCNAB1,intron_variant,,E	A	ENSG00000169282
0	KCNU1,intron_variant,,E	T	ENSG00000215262
0	KCP,intron_variant,,ENS	T	ENSG00000135253
1	KCTD10,intron_variant,,E	C	ENSG00000110906
0	KCTD4,5_prime_UTR_va	A	ENSG00000180332
0	KDM3B,intron_variant,,E	A	ENSG00000120733
0	KDM4A,intron_variant,,E	A	ENSG00000066135
0	KDM4B,intron_variant,,E	T	ENSG00000127663
0	KDM5D,intron_variant,,E	T	ENSG00000012817
0	KDM6A,missense_varian	A	ENSG00000147050
1	KDM7A,intron_variant,,E	G	ENSG00000006459
0	KDM7A,synonymous_var	G	ENSG00000006459
0	KDM7A,missense_varian	T	ENSG00000006459
0	KIAA0930,synonymous_v	A	ENSG00000100364
0	KIAA1109,intron_variant,	A	ENSG00000138688
0	KIAA1244,missense_vari	G	ENSG00000112379
0	KIAA1429,intron_variant,	-	ENSG00000164944
0	KIAA1683,synonymous_v	A	ENSG00000130518
0	KIAA1919,intron_variant,	A	ENSG00000173214
0	KIF14,intron_variant,,EN	A	ENSG00000118193
0	KIF17,synonymous_varia	A	ENSG00000117245
0	KIF19,intron_variant,,EN	T	ENSG00000196169
0	KIF1A,intron_variant,,EN	TTAATCATGGGCCTCC	ENSG00000130294
0	KIF1C,intron_variant,,EN	A	ENSG00000129250
0	KIF20B,intron_variant,,E	-	ENSG00000138182
0	KIFAP3,intron_variant,,E	T	ENSG00000075945
0	KIN,intron_variant,,EN	C	ENSG00000151657



VEP annotated somatic variants

0	KLF10,synonymous_vari	G	ENSG00000155090
3	KLHL2,splice_region_var	G	ENSG00000109466
0	KLHL8,intron_variant,,EN	A	ENSG00000145332
0	KLRG1,intron_variant,,E	A	ENSG00000139187
0	KMT2C,intron_variant,,E	C	ENSG00000055609
0	KNDC1,intron_variant,,E	A	ENSG00000171798
0	KNTC1,splice_region_va	G	ENSG00000184445
1	KPNA7,synonymous_var	T	ENSG00000185467
1	KPNB1,intron_variant,,E	A	ENSG00000108424
0	KREMEN1,intron_variant	T	ENSG00000183762
0	KRT10,intron_variant,,E	T	ENSG00000186395
0	KRT32,intron_variant,,E	C	ENSG00000108759
0	KRT36,3_prime_UTR_va	A	ENSG00000126337
0	KRTAP10-9,3_prime_UT	C	ENSG00000221837
0	KRTAP12-3,3_prime_UT	C	ENSG00000205439
0	KRTAP12-4,synonymous	G	ENSG00000212933
0	L3MBTL2,intron_variant,,	T	ENSG00000100395
0	LAMA2,intron_variant,,E	-	ENSG00000196569
0	LAMA2,intron_variant,,E	G	ENSG00000196569
1	LAMA4,intron_variant,,E	A	ENSG00000112769
0	LAMA4,intron_variant,,E	T	ENSG00000112769
0	LAMC1,intron_variant,,E	A	ENSG00000135862
0	LAMC1,intron_variant,,E	C	ENSG00000135862
0	LAMC1,intron_variant,,E	A	ENSG00000135862
0	LAMC2,5_prime_UTR_va	A	ENSG00000058085
0	LATS1,synonymous_vari	G	ENSG00000131023
0	LCE3C,5_prime_UTR_va	T	ENSG00000244057
0	LCN8,intron_variant,,EN\$GGTGACAGGTGACCTG		ENSG00000204001
0	LDLRAD2,intron_variant,	A	ENSG00000187942
0	LEMD3,intron_variant,,E	A	ENSG00000174106
0	LFNG,intron_variant,,EN\$	A	ENSG00000106003
0	LILRA4,intron_variant,,E	T	ENSG00000239961
0	LIMK1,intron_variant,,EN	A	ENSG00000106683
1	LINGO3,missense_varia	T	ENSG00000220008
0	LMBR1L,intron_variant,,E	T	ENSG00000139636
0	LMO7,intron_variant,,EN\$	A	ENSG00000136153
0	LNPEP,intron_variant,,E	A	ENSG00000113441
0	LONRF1,intron_variant,,E	-	ENSG00000154359
0	LONRF3,synonymous_va	C	ENSG00000175556
0	LONRF3,synonymous_va	G	ENSG00000175556
0	LOXL1,intron_variant,,E	C	ENSG00000129038
0	LPP,3_prime_UTR_varia	G	ENSG00000145012
0	LRMP,intron_variant,,EN	C	ENSG00000118308
0	LRP1B,intron_variant,,E	A	ENSG00000168702
0	LRP5,intron_variant,,EN\$	T	ENSG00000162337
0	LRP5L,missense_variant	A	ENSG00000100068
0	LRP5L,intron_variant,,E	A	ENSG00000100068
0	LRPAP1,intron_variant,,E	A	ENSG00000163956
0	LRR1,intron_variant,,EN\$	T	ENSG00000165501
0	LRR18,missense_varia	A	ENSG00000165383
0	LRRCC1,3_prime_UTR_	G	ENSG00000133739
0	LRRIQ1,intron_variant,,E	A	ENSG00000133640
0	LSG1,missense_variant,	G	ENSG00000041802
0	LSM14A,missense_varia	A	ENSG00000257103
0	LSM6,3_prime_UTR_var	G	ENSG00000164167

VEP annotated somatic variants

0	LSS,intron_variant,,ENST	T	ENSG00000160285
0	LTN1,intron_variant,,ENS	A	ENSG00000198862
0	LUZP2,intron_variant,,EM	C	ENSG00000187398
0	LYPD4,intron_variant,,EM	T	ENSG00000183103
0	LYSMD1,5_prime_UTR_v	G	ENSG00000163155
0	LZTS2,downstream_gene	G	ENSG00000107816
0	LZTS2,splice_region_var	T	ENSG00000107816
0	MAD1L1,intron_variant,,E	C	ENSG00000002822
0	MAD2L1,intron_variant,,E	C	ENSG00000164109
0	MAGEA1,intron_variant,,	C	ENSG00000198681
0	MAGEA12,synonymous_v	C	ENSG00000213401
0	MAGEB4,5_prime_UTR_v	T	ENSG00000120289
0	MAGEC1,intron_variant,,	C	ENSG00000155495
0	MAGEC2,synonymous_v	T	ENSG00000046774
0	MAGED2,intron_variant,,	A	ENSG00000102316
0	MAMDC4,intron_variant,,	A	ENSG00000177943
0	MAMLD1,synonymous_v	T	ENSG00000013619
0	MAN1A1,intron_variant,,f	G	ENSG00000111885
0	MAN2A1,synonymous_v	A	ENSG00000112893
0	MAN2B2,missense_varia	C	ENSG00000013288
0	MAP1S,missense_varian	T	ENSG00000130479
0	MAP3K15,missense_vari	T	ENSG00000180815
0	MAP3K3,intron_variant,,E	T	ENSG00000198909
0	MAP4K1,synonymous_v	C	ENSG00000104814
0	MAP4K4,intron_variant,,E	G	ENSG00000071054
0	MAPKAPK3,intron_variar	-	ENSG00000114738
0	MAST1,intron_variant,,E1	C	ENSG00000105613
0	MAST1,splice_region_va	C	ENSG00000105613
0	MAST4,5_prime_UTR_v	G	ENSG00000069020
0	MATN4,missense_varian	T	ENSG00000124159
0	MCCC1,intron_variant,,E	G	ENSG00000078070
0	MCM3AP,intron_variant,,	A	ENSG00000160294
0	MDGA1,synonymous_va	T	ENSG00000112139
0	MDN1,intron_variant,,EN	T	ENSG00000112159
0	MDN1,intron_variant,,EN	T	ENSG00000112159
0	MECP2,synonymous_var	A	ENSG00000169057
0	MED14,intron_variant,,E1	T	ENSG00000180182
0	MED22,5_prime_UTR_v	C	ENSG00000148297
0	MED25,intron_variant,,E1	C	ENSG00000104973
0	MED29,missense_varian	C	ENSG00000063322
0	MEF2B,intron_variant,,E1	A	ENSG00000213999
0	MEGF6,intron_variant,,E1	C	ENSG00000162591
0	MEP1B,intron_variant,,E1	G	ENSG00000141434
0	MERTK,3_prime_UTR_v	T	ENSG00000153208
0	METTL3,intron_variant,,E	T	ENSG00000165819
0	METTL8,synonymous_v	T	ENSG00000123600
0	MFSD12,intron_variant,,E	A	ENSG00000161091
2	MGAT5B,synonymous_v	A	ENSG00000167889
0	MGAT5B,intron_variant,,l	A	ENSG00000167889
0	MGAT5B,synonymous_v	T	ENSG00000167889
0	MGMT,missense_variant	T	ENSG00000170430
0	MICAL3,intron_variant,,E	A	ENSG00000243156
0	MICAL3,intron_variant,,E	A	ENSG00000243156
0	MICAL3,intron_variant,,E	G	ENSG00000243156
0	MID1,intron_variant,,ENS	T	ENSG00000101871

VEP annotated somatic variants

0	MINK1,intron_variant,,EN	C	ENSG00000141503
1	MINK1,intron_variant,,EN	C	ENSG00000141503
0	MLEC,intron_variant,,EN	T	ENSG00000110917
0	MLK4,intron_variant,,EN	G	ENSG00000143674
1	MLLT1,intron_variant,,EN	T	ENSG00000130382
0	MMP21,intron_variant,,EN	A	ENSG00000154485
0	MNX1,intron_variant,,EN	G	ENSG00000130675
0	MOB3A,missense_variant,,EN	G	ENSG00000172081
0	MORC4,intron_variant,,EN	T	ENSG00000133131
0	MORC4,missense_variant,,EN	A	ENSG00000133131
0	MORF4L1,intron_variant,,EN	T	ENSG00000185787
0	MPZL3,intron_variant,,EN	A	ENSG00000160588
0	MRE11A,splice_donor_variant,,EN	T	ENSG00000020922
0	MROH7,missense_variant,,EN	G	ENSG00000184313
0	MROH7,missense_variant,,EN	G	ENSG00000184313
0	MROH7,missense_variant,,EN	C	ENSG00000184313
0	MRPL10,intron_variant,,EN	G	ENSG00000159111
0	MRPL41,intron_variant,,EN	A	ENSG00000182154
0	MRPL43,intron_variant,,EN	A	ENSG00000055950
0	MRPS10,intron_variant,,EN	T	ENSG00000048544
0	MRV11,splice_acceptor_variant,,EN	T	ENSG00000072952
0	MSH2,intron_variant,,EN	-	ENSG00000095002
0	MSMO1,intron_variant,,EN	T	ENSG00000052802
0	MTOR,synonymous_variant,,EN	T	ENSG00000198793
0	MTR,synonymous_variant,,EN	G	ENSG00000116984
0	MTR,intron_variant,,EN	T	ENSG00000116984
0	MTR,intron_variant,,EN	G	ENSG00000116984
0	MTR,intron_variant,,EN	A	ENSG00000116984
1	MTTP,intron_variant,,EN	-	ENSG00000138823
0	MUC16,splice_region_variant,,EN	GGGAGA	ENSG00000181143
0	MUC16,synonymous_variant,,EN	C	ENSG00000181143
0	MUC19,missense_variant,,EN	C	ENSG00000205592
0	MUC19,intron_variant,,EN	A	ENSG00000205592
0	MUC2,synonymous_variant,,EN	C	ENSG00000198788
0	MVD,intron_variant,,EN	A	ENSG00000167508
2	MXRA5,synonymous_variant,,EN	G	ENSG00000101825
0	MYADML2,synonymous_variant,,EN	A	ENSG00000185105
0	MYBPC3,intron_variant,,EN	-	ENSG00000134571
0	MYH11,missense_variant,,EN	T	ENSG00000133392
0	MYH15,intron_variant,,EN	C	ENSG00000144821
0	MYH7,synonymous_variant,,EN	T	ENSG00000092054
0	MYH7,intron_variant,,EN	T	ENSG00000092054
0	MYH7,intron_variant,,EN	C	ENSG00000092054
0	MYH9,intron_variant,,EN	T	ENSG00000100345
0	MYLK,synonymous_variant,,EN	A	ENSG00000065534
0	MYO15A,intron_variant,,EN	T	ENSG00000091536
0	MYO18B,intron_variant,,EN	C	ENSG00000133454
0	MYO19,intron_variant,,EN	T	ENSG00000141140
0	MYO1F,intron_variant,,EN	C	ENSG00000142347
0	MYO5A,intron_variant,,EN	T	ENSG00000197535
2	MYO9B,intron_variant,,EN	C	ENSG00000099331
0	MYOG,5_prime_UTR_variant,,EN	G	ENSG00000122180
0	MYPN,synonymous_variant,,EN	T	ENSG00000138347
1	MYRF,intron_variant,,EN	C	ENSG00000124920
0	MYSM1,intron_variant,,EN	G	ENSG00000162601

VEP annotated somatic variants

0	NAA35,intron_variant,,EN	A	ENSG00000135040
0	NACC2,synonymous_var	T	ENSG00000148411
0	ALG1,5_prime_UTR_vari	A	ENSG00000103174
0	NAPSA,missense_varian	T	ENSG00000131400
1	NAT9,intron_variant,,ENS	G	ENSG00000109065
0	NBAS,intron_variant,,EN	T	ENSG00000151779
0	NBR1,missense_variant,	G	ENSG00000188554
0	NBR1,intron_variant,,EN	T	ENSG00000188554
1	NBR1,splice_region_vari	C	ENSG00000188554
0	NBR1,intron_variant,,EN	A	ENSG00000188554
0	NCAN,missense_variant,	T	ENSG00000130287
0	NCAPD2,intron_variant,,I	T	ENSG00000010292
0	NCAPD3,intron_variant,,I	T	ENSG00000151503
0	NCAPH,intron_variant,,E	A	ENSG00000121152
0	NCOA6,intron_variant,,El	A	ENSG00000198646
0	NCOR1,intron_variant,,E	A	ENSG00000141027
1	NDUFS2,synonymous_va	T	ENSG00000158864
0	NEB,intron_variant,,ENS	A	ENSG00000183091
0	NEB,intron_variant,,ENS	C	ENSG00000183091
0	NEB,intron_variant,,ENS	C	ENSG00000183091
0	NELFA,synonymous_vari	T	ENSG00000185049
0	NENF,synonymous_varia	C	ENSG00000117691
0	NENF,intron_variant,,EN	G	ENSG00000117691
0	NEXN,missense_variant,	C	ENSG00000162614
0	NFKB1,intron_variant,,EM	T	ENSG00000109320
0	NFKB2,intron_variant,,EM	A	ENSG00000077150
0	NFKBIZ,intron_variant,,E	G	ENSG00000144802
0	NHLRC1,synonymous_va	G	ENSG00000187566
0	NHSL1,intron_variant,,EM	G	ENSG00000135540
0	NID1,intron_variant,,ENS	T	ENSG00000116962
0	NIN,intron_variant,,ENST	A	ENSG00000100503
0	NIPAL3,intron_variant,,El	A	ENSG00000001461
0	NIPAL4,missense_varian	G	ENSG00000172548
0	NIPBL,3_prime_UTR_va	A	ENSG00000164190
0	NIPSNAP1,intron_varian	T	ENSG00000184117
0	NISCH,synonymous_vari	A	ENSG00000010322
0	NKX2-8,missense_variar	G	ENSG00000136327
0	NLGN3,intron_variant,,El	G	ENSG00000196338
0	NLRC4,intron_variant,,EM	-	ENSG00000091106
0	NLRP5,intron_variant,,EM	C	ENSG00000171487
0	NLRP5,splice_region_var	T	ENSG00000171487
0	NLRP5,intron_variant,,EM	A	ENSG00000171487
0	NLRP9,intron_variant,,EM	A	ENSG00000185792
0	NOC4L,intron_variant,,El	G	ENSG00000184967
1	NOL6,intron_variant,,ENS	A	ENSG00000165271
1	NOP14,intron_variant,,EM	A	ENSG00000087269
0	NOP56,3_prime_UTR_va	G	ENSG00000101361
0	NOS1AP,5_prime_UTR_	T	ENSG00000198929
0	NOS3,missense_variant,	G	ENSG00000164867
0	NOS3,intron_variant,,EN	C	ENSG00000164867
0	NOTCH1,intron_variant,,	G	ENSG00000148400
0	NOTCH1,intron_variant,,	T	ENSG00000148400
0	NPC1L1,synonymous_va	G	ENSG00000015520
0	NPFFR1,missense_varia	G	ENSG00000148734
0	NPSR1,missense_varian	G	ENSG00000187258

VEP annotated somatic variants

0	NPTX2,intron_variant,,ENFGATCCGCCTGCCTTG/		ENSG00000106236
0	NR1D2,5_prime_UTR_v	G	ENSG00000174738
0	NR1I3,upstream_gene_v	-	ENSG00000143257
0	NRDE2,intron_variant,,EI	T	ENSG00000119720
0	NSD1,synonymous_varia	C	ENSG00000165671
0	NSUN2,intron_variant,,EI	A	ENSG00000037474
0	NT5DC2,intron_variant,,E	T	ENSG00000168268
0	NTF4,missense_variant,p	C	ENSG00000225950
0	NUDCD3,missense_varia	A	ENSG00000015676
0	NUFIP1,intron_variant,,E	A	ENSG00000083635
0	NUGGC,synonymous_va	T	ENSG00000189233
0	NUP107,intron_variant,,E	C	ENSG00000111581
0	NUP214,intron_variant,,E	A	ENSG00000126883
0	NUP43,missense_varian	G	ENSG00000120253
0	NUP50,3_prime_UTR_v	-	ENSG00000093000
0	NUP54,intron_variant,,EI	-	ENSG00000138750
0	NUP54,intron_variant,,EI	T	ENSG00000138750
0	NUP88,intron_variant,,EI	T	ENSG00000108559
0	NUP88,intron_variant,,EI	A	ENSG00000108559
0	NXF3,intron_variant,,ENS	C	ENSG00000147206
0	NXF5,intron_variant,,ENS	C	ENSG00000126952
0	NXF5,intron_variant,,ENS	T	ENSG00000126952
0	NXF5,intron_variant,,ENS	C	ENSG00000126952
0	NXN,intron_variant,,ENS	C	ENSG00000167693
0	OARD1,intron_variant,,EI	G	ENSG00000124596
0	OBSL1,synonymous_vari	A	ENSG00000124006
0	OGFOD3,synonymous_v	A	ENSG00000181396
0	OPA3,3_prime_UTR_var	T	ENSG00000125741
0	OR2AE1,3_prime_UTR_	G	ENSG00000244623
0	OR3A1,missense_varian	T	ENSG00000180090
0	OR4A16,synonymous_v	A	ENSG00000181961
0	OR4A5,missense_varian	T	ENSG00000221840
1	OR4C16,downstream_ge	T	ENSG00000181935
0	OR51B4,synonymous_v	A	ENSG00000183251
0	OR52N1,synonymous_v	G	ENSG00000181001
0	OR5AU1,missense_varia	C	ENSG00000169327
0	OR5H15,synonymous_v	A	ENSG00000233412
0	OR5I1,synonymous_vari	A	ENSG00000167825
0	OR5T1,5_prime_UTR_v	G	ENSG00000181698
0	OSBPL2,intron_variant,,E	T	ENSG00000130703
0	OSGIN1,splice_region_v	G	ENSG00000140961
2	OSGIN1,synonymous_v	G	ENSG00000140961
0	OSMR,intron_variant,,EN	-	ENSG00000145623
0	OTUD7A,intron_variant,,I	G	ENSG00000169918
0	OXA1L,inframe_insertion	AGC	ENSG00000155463
0	P2RY4,missense_variant	G	ENSG00000186912
0	P4HB,synonymous_varia	A	ENSG00000185624
0	PABPC4,missense_varia	C	ENSG00000090621
0	PACS1,intron_variant,,EI	T	ENSG00000175115
0	PAGE5,intron_variant,,EI	A	ENSG00000158639
0	PALM,intron_variant,,EN	A	ENSG00000099864
0	PANK1,intron_variant,,EI	A	ENSG00000152782
0	PANK1,synonymous_var	G	ENSG00000152782
0	PANK4,missense_varian	A	ENSG00000157881
1	PAPOLG,intron_variant,,I	A	ENSG00000115421

VEP annotated somatic variants

0	PARS2,missense_varian	A	ENSG00000162396
0	PARVA,synonymous_var	T	ENSG00000197702
0	PARVB,splice_region_va	G	ENSG00000188677
1	PAX8,intron_variant,,ENS	G	ENSG00000125618
0	PBOV1,missense_varian	G	ENSG00000254440
0	PCDH15,intron_variant,,E	G	ENSG00000150275
0	PCDH9,missense_varian	A	ENSG00000184226
0	PCLO,intron_variant,,EN	A	ENSG00000186472
0	PCMT1,missense_varian	A	ENSG00000120265
0	PCNT,intron_variant,,EN	A	ENSG00000160299
0	PDE12,missense_variant	T	ENSG00000174840
0	PDE1A,5_prime_UTR_va	G	ENSG00000115252
0	PDE2A,synonymous_var	A	ENSG00000186642
0	PDE6C,synonymous_var	A	ENSG00000095464
0	PDGFRA,intron_variant,,	T	ENSG00000134853
0	PDGFRB,synonymous_v	C	ENSG00000113721
1	PDGFRB,splice_region_\	C	ENSG00000113721
0	PDSS1,intron_variant,,E	C	ENSG00000148459
0	PDXDC1,intron_variant,,l	G	ENSG00000179889
0	PDXDC1,intron_variant,,l	G	ENSG00000179889
0	PDZD7,intron_variant,,E	-	ENSG00000186862
1	PEAK1,missense_varian	G	ENSG00000173517
0	PEAR1,intron_variant,,E	G	ENSG00000187800
0	PEAR1,synonymous_var	A	ENSG00000187800
0	PEAR1,synonymous_var	C	ENSG00000187800
0	PEPD,missense_variant,	A	ENSG00000124299
0	PEPD,3_prime_UTR_var	G	ENSG00000124299
0	PFKP,intron_variant,,ENS	G	ENSG00000067057
0	PFKP,intron_variant,,ENS	T	ENSG00000067057
0	PGAP1,intron_variant,,E	A	ENSG00000197121
0	PGK1,intron_variant,,EN	C	ENSG00000102144
0	PGLYRP2,missense_var	T	ENSG00000161031
0	PGLYRP3,5_prime_UTR	G	ENSG00000159527
0	PHF2,splice_region_vari	T	ENSG00000197724
0	PHIP,intron_variant,,ENS	TTCATCTCTGATGGGA	ENSG00000146247
0	PHKA1,intron_variant,,E	-	ENSG00000067177
0	PHLDB1,intron_variant,,E	A	ENSG00000019144
0	PHRF1,synonymous_var	A	ENSG00000070047
0	PIFO,3_prime_UTR_vari	G	ENSG00000173947
0	PIGK,intron_variant,,ENS	C	ENSG00000142892
0	PIGN,synonymous_varia	G	ENSG00000197563
0	PIGW,missense_variant,	G	ENSG00000184886
0	PIK3R5,intron_variant,,E	G	ENSG00000141506
0	PIKFYVE,intron_variant,,	A	ENSG00000115020
0	PIM3,synonymous_varia	A	ENSG00000198355
1	PIWIL3,5_prime_UTR_va	G	ENSG00000184571
0	PJA1,synonymous_varia	A	ENSG00000181191
0	PKD1L2,non_coding_trar	C	ENSG00000166473
1	PKHD1,intron_variant,,E	T	ENSG00000170927
1	PKP2,intron_variant,,ENS	C	ENSG00000057294
0	PLA2G7,intron_variant,,E	A	ENSG00000146070
0	PLAT,intron_variant,,ENS	T	ENSG00000104368
0	PLB1,intron_variant,,ENS	A	ENSG00000163803
0	PLCE1,intron_variant,,E	A	ENSG00000138193
0	PLCE1,intron_variant,,E	G	ENSG00000138193

VEP annotated somatic variants

0	PLCE1,intron_variant,,EN	T	ENSG00000138193
0	PLCE1,missense_variant	T	ENSG00000138193
0	PLCG2,intron_variant,,E	C	ENSG00000197943
0	PLCH2,intron_variant,,E	G	ENSG00000149527
0	PLCH2,intron_variant,,E	C	ENSG00000149527
0	PLEC,missense_variant,j	C	ENSG00000178209
0	PLEC,synonymous_varia	G	ENSG00000178209
0	PLEC,3_prime_UTR_var	A	ENSG00000178209
0	PLEC,synonymous_varia	A	ENSG00000178209
0	PLEC,synonymous_varia	G	ENSG00000178209
1	PLEC,synonymous_varia	G	ENSG00000178209
0	PLEKHG5,intron_variant,	T	ENSG00000171680
0	PLEKHH1,intron_variant,	T	ENSG00000054690
0	PLEKHH1,splice_region_	C	ENSG00000054690
0	PLEKHH1,missense_vari	G	ENSG00000054690
0	PLEKHN1,intron_variant,	A	ENSG00000187583
0	PLK5,intron_variant,,ENS	G GCGTGGGGTCCCT	ENSG00000185988
0	PLXDC1,intron_variant,,E	A	ENSG00000161381
0	PLXNB2,intron_variant,,E	T	ENSG00000196576
0	PNISR,intron_variant,,EN	TATAATTTTAAACTAT	ENSG00000132424
0	PNPLA1,missense_varia	T	ENSG00000180316
0	PNPLA3,intron_variant,,E	C	ENSG00000100344
0	PNPLA6,synonymous_va	A	ENSG00000032444
0	POC1B-GALNT4,intron_	-	ENSG00000259075
0	POLR2G,intron_variant,,l	A	ENSG00000168002
0	POLR3F,intron_variant,,E	T	ENSG00000132664
0	POLR3F,intron_variant,,E	G	ENSG00000132664
0	POSTN,intron_variant,,E	A	ENSG00000133110
0	POU5F1B,missense_vari	C	ENSG00000212993
0	PPARG,missense_variar	G	ENSG00000132170
0	PPARG,synonymous_val	T	ENSG00000132170
0	PPIL2,intron_variant,,EN	C	ENSG00000100023
0	PPM1E,inframe_insertior	GAACCC	ENSG00000175175
0	PPOX,intron_variant,,EN	G	ENSG00000143224
0	PPP1R27,3_prime_UTR_	A	ENSG00000182676
0	PPP2R2D,3_prime_UTR_	C	ENSG00000175470
0	PPP2R3A,intron_variant,	TGTTTTGTTT	ENSG00000073711
0	PQBP1,splice_region_va	T	ENSG00000102103
0	PRDM5,intron_variant,,E	A	ENSG00000138738
0	PRDM8,intron_variant,,E	A	ENSG00000152784
0	PRDX4,intron_variant,,E	C	ENSG00000123131
0	PRDX4,intron_variant,,E	T	ENSG00000123131
0	PRDX4,intron_variant,,E	C	ENSG00000123131
0	PREP,intron_variant,,EN	G	ENSG00000085377
0	PREX2,intron_variant,,E	G	ENSG00000046889
0	PRG2,intron_variant,,EN	G	ENSG00000186652
0	PRIMPOL,5_prime_UTR_	C	ENSG00000164306
0	PRKCD,intron_variant,,E	A	ENSG00000163932
1	PRKCD,intron_variant,,E	-	ENSG00000163932
0	PRKCZ,intron_variant,,E	A	ENSG00000067606
0	PRMT5,intron_variant,,E	A	ENSG00000100462
0	PRR22,missense_varian	A	ENSG00000212123
0	PRR5,intron_variant,,EN	T	ENSG00000186654
0	PRR5-ARHGAP8,intron_	A	ENSG00000248405
1	PRSS36,intron_variant,,E	AAACAAAC	ENSG00000178226

VEP annotated somatic variants

0	PRUNE2,intron_variant,,I	-	ENSG00000106772
1	PSG2,intron_variant,,EN	A	ENSG00000242221
0	PSG7,non_coding_transc	A	ENSG00000221878
0	PSG9,stop_gained,p.Tyr	C	ENSG00000183668
0	PSMD12,splice_region_v	G	ENSG00000197170
0	PSMG1,intron_variant,,E	C	ENSG00000183527
0	PSMG2,5_prime_UTR_v	G	ENSG00000128789
0	PTGR1,intron_variant,,E	A	ENSG00000106853
0	PTPRE,intron_variant,,E	G	ENSG00000132334
1	PTPRF,intron_variant,,E	A	ENSG00000142949
0	PTPRG,intron_variant,,E	C	ENSG00000144724
0	PTPRK,intron_variant,,E	G	ENSG00000152894
0	PTPRN2,synonymous_va	A	ENSG00000155093
0	PTX4,intron_variant,,EN	A	ENSG00000251692
0	PUM1,intron_variant,,EN	G	ENSG00000134644
0	PUM1,intron_variant,,EN	A	ENSG00000134644
0	PUM1,intron_variant,,EN	C	ENSG00000134644
0	PUM1,intron_variant,,EN	GC	ENSG00000134644
0	PYGO1,intron_variant,,E	A	ENSG00000171016
0	PYROXD1,5_prime_UTR	C	ENSG00000121350
0	RAB11FIP4,intron_variar	G	ENSG00000131242
0	RAB17,missense_variant	G	ENSG00000124839
0	RAB38,missense_variant	A	ENSG00000123892
0	RAB41,intron_variant,,E	G	ENSG00000147127
0	RABEP1,intron_variant,,E	A	ENSG00000029725
0	RABGGTA,synonymous_	A	ENSG00000100949
0	RAC3,intron_variant,,EN	TTCCACG	ENSG00000169750
0	RAD51B,intron_variant,,E	G	ENSG00000182185
0	RADIL,synonymous_vari	G	ENSG00000157927
0	RAF1,intron_variant,,EN	A	ENSG00000132155
0	RAI14,intron_variant,,EN	A	ENSG00000039560
0	RAP1GAP,intron_variant	A	ENSG00000076864
0	RAPGEF3,intron_variant	C	ENSG00000079337
0	RAPSN,intron_variant,,E	-	ENSG00000165917
0	RASSF1,missense_varia	T	ENSG00000068028
0	RBM10,synonymous_var	C	ENSG00000182872
1	RBM26,intron_variant,,E	A	ENSG00000139746
0	RBM27,intron_variant,,E	T	ENSG00000091009
0	RBPMS,5_prime_UTR_v	C	ENSG00000157110
1	RECK,synonymous_vari	G	ENSG00000122707
0	RELB,intron_variant,,EN	-	ENSG00000104856
0	REPS1,intron_variant,,E	G	ENSG00000135597
0	RETNLB,stop_gained,p.L	GGGGATTA	ENSG00000163515
0	RFPL1,5_prime_UTR_va	G	ENSG00000128250
0	RFT1,synonymous_varia	C	ENSG00000163933
0	RFT1,intron_variant,,EN	A	ENSG00000163933
0	RFTN1,intron_variant,,E	C	ENSG00000131378
0	RGL3,5_prime_UTR_var	T	ENSG00000205517
0	RGS7,splice_region_vari	C	ENSG00000182901
0	RIBC2,5_prime_UTR_va	A	ENSG00000128408
0	RIPK4,synonymous_vari	T	ENSG00000183421
0	RMND5A,intron_variant,,	AA	ENSG00000153561
0	RMND5A,5_prime_UTR_	T	ENSG00000153561
0	RNASEH2A,intron_variar	T	ENSG00000104889
0	RNASEL,synonymous_va	T	ENSG00000135828



VEP annotated somatic variants

0	RND2,3_prime_UTR_var	T	ENSG00000108830
0	RNF175,intron_variant,,E	-	ENSG00000145428
0	RNF19B,intron_variant,,E	A	ENSG00000116514
0	RNF222,3_prime_UTR_v	T	ENSG00000189051
0	ROBO1,intron_variant,,E	C	ENSG00000169855
0	ROBO1,intron_variant,,E	A	ENSG00000169855
0	ROCK2,missense_varian	T	ENSG00000134318
0	ROR1,3_prime_UTR_var	A	ENSG00000185483
0	ROS1,intron_variant,,EN	G	ENSG00000047936
0	RP1-130H16.18,intron_v	T	ENSG00000248751
0	LMO7,5_prime_UTR_var	C	ENSG00000228444
0	CC2D2B,5_prime_UTR_	A	ENSG00000269948
0	RP11-551L14.1,intron_v	C	ENSG00000177359
0	FHAD1,intron_variant,,E	A	ENSG00000233485
0	RPAP3,intron_variant,,E	T	ENSG00000005175
0	RPH3AL,intron_variant,,E	A	ENSG00000181031
0	RPL18A,intron_variant,,E	C	ENSG00000105640
0	RPL23A,5_prime_UTR_v	CC	ENSG00000198242
0	RPL23A,5_prime_UTR_vAAATGAGCAGGGATTT/		ENSG00000198242
0	RPL3,synonymous_varia	T	ENSG00000100316
0	RPS4X,synonymous_var	T	ENSG00000198034
0	RPS6KA2,intron_variant,	G	ENSG00000071242
0	RPTOR,missense_variar	T	ENSG00000141564
0	RPTOR,synonymous_val	T	ENSG00000141564
0	RRP1B,intron_variant,,E	A	ENSG00000160208
0	RRP1B,synonymous_var	A	ENSG00000160208
0	RSAD1,synonymous_var	G	ENSG00000136444
0	RSU1,intron_variant,,EN	C	ENSG00000148484
0	RTN3,missense_variant,	C	ENSG00000133318
0	RUFY1,5_prime_UTR_v	T	ENSG00000176783
2	RUFY1,synonymous_var	C	ENSG00000176783
0	RUFY2,5_prime_UTR_v	C	ENSG00000204130
1	RXRA,intron_variant,,EN	A	ENSG00000186350
0	RYR1,synonymous_varia	T	ENSG00000196218
0	RYR1,intron_variant,,EN	A	ENSG00000196218
0	RYR1,synonymous_varia	T	ENSG00000196218
0	RYR1,intron_variant,,EN	A	ENSG00000196218
0	RYR2,intron_variant,,EN	A	ENSG00000198626
0	RYR2,intron_variant,,EN	T	ENSG00000198626
0	RYR3,intron_variant,,EN	A	ENSG00000198838
0	SAP18,intron_variant,,E	G	ENSG00000150459
0	SARDH,intron_variant,,E	A	ENSG00000123453
0	SBDS,intron_variant,,EN	C	ENSG00000126524
0	SBF1,synonymous_varia	G	ENSG00000100241
0	SBF2,intron_variant,,EN	A	ENSG00000133812
0	SCAF1,intron_variant,,E	T	ENSG00000126461
0	SCAMP3,synonymous_v	T	ENSG00000116521
0	SCARF2,intron_variant,,E	T	ENSG00000244486
0	SCEL,intron_variant,,EN	C	ENSG00000136155
0	SCIN,missense_variant,p	G	ENSG00000006747
0	SCLT1,intron_variant,,EN	A	ENSG00000151466
0	SCLT1,intron_variant,,EN	A	ENSG00000151466
0	SCML4,3_prime_UTR_v	C	ENSG00000146285
0	SCN3A,intron_variant,,E	T	ENSG00000153253
0	SCN9A,missense_varian	G	ENSG00000169432

VEP annotated somatic variants

1	SCN9A,intron_variant,,E	T	ENSG00000169432
0	SDE2,upstream_gene_v	T	ENSG00000143751
0	SDK1,intron_variant,,E	C	ENSG00000146555
0	SEC13,intron_variant,,E	T	ENSG00000157020
0	SEC14L6,missense_vari	A	ENSG00000214491
0	SEC16B,intron_variant,,E	A	ENSG00000120341
0	SEC23B,missense_varia	G	ENSG00000101310
0	SEC24D,intron_variant,,E	A	ENSG00000150961
0	SEC31B,intron_variant,,E	-	ENSG00000075826
0	SEC31B,intron_variant,,E	G	ENSG00000075826
0	SEC31B,missense_varia	G	ENSG00000075826
0	SEC31B,intron_variant,,E	T	ENSG00000075826
0	SECISBP2,intron_variant	T	ENSG00000187742
0	SECTM1,missense_varia	C	ENSG00000141574
0	SELE,intron_variant,,E	G	ENSG00000007908
0	SELP,intron_variant,,E	A	ENSG00000174175
0	SEMA3A,intron_variant,,I	C	ENSG00000075213
0	SEMA3A,intron_variant,,I	G	ENSG00000075213
0	SEMA3F,intron_variant,,I	G	ENSG00000001617
0	SEPT3,3_prime_UTR_va	A	ENSG00000100167
0	SERPINA3,intron_variant	C	ENSG00000196136
0	SERTAD1,intron_variant,	C	ENSG00000197019
0	SETD1B,intron_variant,,E	A	ENSG00000139718
0	SETD1B,intron_variant,,E	A	ENSG00000139718
0	SETD5,intron_variant,,E	A	ENSG00000168137
0	SEZ6L,synonymous_vari	C	ENSG00000100095
0	SF3B3,intron_variant,,E	A	ENSG00000189091
0	SF3B5,5_prime_UTR_va	A	ENSG00000169976
0	SGPL1,intron_variant,,E	-	ENSG00000166224
0	SGSM2,intron_variant,,E	C	ENSG00000141258
0	SGSM2,intron_variant,,E	C	ENSG00000141258
1	SGSM3,intron_variant,,E	A	ENSG00000100359
0	SH3GLB1,3_prime_UTR	A	ENSG00000097033
0	SH3PXD2A,synonymous	C	ENSG00000107957
0	SHANK1,intron_variant,,I	T	ENSG00000161681
0	SHANK1,splice_region_v	T	ENSG00000161681
0	SHH,intron_variant,,E	T	ENSG00000164690
0	SHROOM2,missense_va	A	ENSG00000146950
0	SIGLEC12,intron_variant	T	ENSG00000254521
0	SIK1,intron_variant,,E	AACTATATCAAAGT	ENSG00000142178
0	SIM2,splice_region_varia	C	ENSG00000159263
0	SIPA1L2,intron_variant,,E	C	ENSG00000116991
0	SLAMF7,intron_variant,,E	T	ENSG00000026751
0	SLC10A4,synonymous_v	A	ENSG00000145248
0	SLC10A6,missense_vari	C	ENSG00000145283
0	SLC12A7,intron_variant,,	A	ENSG00000113504
0	SLC13A1,intron_variant,,	G	ENSG00000081800
0	SLC16A2,missense_vari	C	ENSG00000147100
0	SLC1A6,intron_variant,,E	T	ENSG00000105143
0	SLC1A6,intron_variant,,E	A	ENSG00000105143
0	SLC22A5,synonymous_v	C	ENSG00000197375
0	SLC23A1,intron_variant,,	T	ENSG00000170482
0	SLC24A4,synonymous_v	C	ENSG00000140090
0	SLC25A13,intron_variant	ATGATGTTGTC	ENSG00000004864
0	SLC25A39,intron_variant	T	ENSG00000013306

VEP annotated somatic variants

0	SLC25A39,intron_variant	T	ENSG00000013306
0	SLC26A11,intron_variant	T	ENSG00000181045
0	SLC28A1,intron_variant,,	C	ENSG00000156222
0	SLC28A2,intron_variant,,	-	ENSG00000137860
0	SLC2A8,intron_variant,,E	T	ENSG00000136856
0	SLC35B4,intron_variant,,	A	ENSG00000205060
0	SLC35F1,intron_variant,,	A	ENSG00000196376
0	SLC35F3,intron_variant,,	A	ENSG00000183780
0	SLC37A2,intron_variant,,	G	ENSG00000134955
0	SLC38A3,intron_variant,,	G	ENSG00000188338
0	SLC38A7,intron_variant,,	T	ENSG00000103042
0	SLC45A4,synonymous_v	A	ENSG00000022567
0	SLC4A2,intron_variant,,E	A	ENSG00000164889
0	SLC5A5,intron_variant,,E	G	ENSG00000105641
0	SLC6A14,intron_variant,,	G	ENSG00000087916
0	SLC6A16,intron_variant,,	T	ENSG00000063127
0	SLC6A4,5_prime_UTR_v	T	ENSG00000108576
0	SLC6A9,3_prime_UTR_v	A	ENSG00000196517
0	SLC7A8,intron_variant,,E	T	ENSG00000092068
0	SLC7A8,synonymous_va	A	ENSG00000092068
0	SLC9A7,synonymous_va	G	ENSG00000065923
0	SLCO2A1,intron_variant,	-	ENSG00000174640
0	SMARCA1,intron_variant	A	ENSG00000102038
0	SMARCA5,intron_variant	-	ENSG00000153147
0	SMC1B,intron_variant,,E	T	ENSG00000077935
0	SMOC1,synonymous_va	A	ENSG00000198732
0	SMTN,intron_variant,,EN	A	ENSG00000183963
0	SMYD3,splice_region_va	T	ENSG00000185420
0	SORBS1,intron_variant,,I	A	ENSG00000095637
0	SORCS2,splice_region_v	A	ENSG00000184985
2	SPAG17,synonymous_va	G	ENSG00000155761
0	SPAG17,synonymous_va	A	ENSG00000155761
0	SPANXN2,synonymous_v	T	ENSG00000203924
0	PARP10,5_prime_UTR_v	A	ENSG00000186583
2	SPEG,intron_variant,,EN	G	ENSG00000072195
0	SPEG,missense_variant,	G	ENSG00000072195
1	SPINT2,missense_variar	C	ENSG00000167642
0	SPOCK2,synonymous_va	T	ENSG00000107742
0	SPTBN5,intron_variant,,E	T	ENSG00000137877
0	SPTBN5,intron_variant,,E	A	ENSG00000137877
1	SRCAP,missense_varian	G	ENSG00000080603
0	SSPO,non_coding_trans	T	ENSG00000197558
0	SSPO,intron_variant,,EN	T	ENSG00000197558
0	SSPO,non_coding_trans	C	ENSG00000197558
0	SSUH2,intron_variant,,E	-	ENSG00000125046
0	ST3GAL2,3_prime_UTR_	T	ENSG00000157350
0	ST6GALNAC2,intron_var	A	ENSG00000070731
0	ST6GALNAC2,intron_var	G	ENSG00000070731
0	ST6GALNAC4,intron_var	-	ENSG00000136840
0	STAB2,synonymous_vari	C	ENSG00000136011
0	STAMPB,intron_variant,,I	-	ENSG00000124356
0	STAP1,synonymous_vari	T	ENSG00000035720
0	STARD9,intron_variant,,E	A	ENSG00000159433
0	STAT4,intron_variant,,EN	G	ENSG00000138378
0	STAT5B,intron_variant,,E	-	ENSG00000173757

VEP annotated somatic variants

0	STAU2,intron_variant,,E	G	ENSG00000040341
0	STOML1,synonymous_v	C	ENSG000000067221
0	STRA13,5_prime_UTR_	A	ENSG00000169689
0	STRA8,downstream_gen	T	ENSG00000146857
0	STRBP,intron_variant,,E	-	ENSG00000165209
0	STRIP1,intron_variant,,E	G	ENSG00000143093
0	STRIP2,intron_variant,,E	G	ENSG00000128578
0	STXBP5,intron_variant,,E	C	ENSG00000164506
0	STYK1,missense_variant	C	ENSG00000060140
0	STYXL1,downstream_ge	A	ENSG00000127952
0	SUCNR1,3_prime_UTR_	A	ENSG00000198829
0	SUMO3,missense_variar	C	ENSG00000184900
0	SUMO4,missense_variar	A	ENSG00000177688
0	SUPT5H,intron_variant,,E	A	ENSG00000196235
0	SUPT5H,intron_variant,,E	T	ENSG00000196235
0	SUSD3,intron_variant,,E	G	ENSG00000157303
0	SWAP70,intron_variant,,E	G	ENSG00000133789
0	SYMPK,synonymous_var	C	ENSG00000125755
0	SYN2,intron_variant,,E	T	ENSG00000157152
0	SYNE2,synonymous_var	C	ENSG00000054654
0	SYNE2,intron_variant,,E	C	ENSG00000054654
0	SYNJ2,synonymous_vari	T	ENSG00000078269
0	SYNM,missense_variant,	T	ENSG00000182253
0	SYNPO2,missense_varia	C	ENSG00000172403
0	TAB2,synonymous_varia	A	ENSG00000055208
0	TAB2,intron_variant,,E	T	ENSG00000055208
1	TACC3,missense_varian	A	ENSG00000013810
0	TAF7L,intron_variant,,E	C	ENSG00000102387
0	TAGAP,intron_variant,,E	T	ENSG00000164691
0	TAGAP,synonymous_var	A	ENSG00000164691
0	TARSL2,intron_variant,,E	T	ENSG00000185418
0	TARSL2,intron_variant,,E	C	ENSG00000185418
0	TATDN2,missense_varia	A	ENSG00000157014
0	TATDN2,intron_variant,,E	T	ENSG00000157014
0	TBC1D22A,missense_va	T	ENSG00000054611
0	TBC1D4,intron_variant,,E	T	ENSG00000136111
0	TBC1D5,missense_varia	C	ENSG00000131374
0	TBCK,intron_variant,,E	G	ENSG00000145348
0	TBX10,intron_variant,,E	A	ENSG00000167800
0	TCEAL2,missense_varia	C	ENSG00000184905
0	TCEB3,missense_varian	C	ENSG00000011007
1	TCERG1,intron_variant,,E	T	ENSG00000113649
0	TCN2,3_prime_UTR_var	T	ENSG00000185339
0	TDRD9,synonymous_var	T	ENSG00000156414
0	TENM1,intron_variant,,E	-	ENSG00000009694
0	TENM2,intron_variant,,E	T	ENSG00000145934
0	TERF2,intron_variant,,E	G	ENSG00000132604
0	TET3,intron_variant,,E	GACATGCCCCAC	ENSG00000187605
0	TEX14,intron_variant,,E	T	ENSG00000121101
0	TEX2,intron_variant,,E	C	ENSG00000136478
0	TEX26,splice_acceptor_	A	ENSG00000175664
0	TFB1M,synonymous_var	T	ENSG00000029639
0	TFDP3,missense_variant	T	ENSG00000183434
0	TFPT,intron_variant,,E	A	ENSG00000105619
0	TGFBR3,intron_variant,,E	G	ENSG00000069702

VEP annotated somatic variants

0	TGIF2LX,missense_varia	A	ENSG00000153779
0	TGM7,synonymous_varia	G	ENSG00000159495
0	THBS2,intron_variant,,E	A	ENSG00000186340
0	THEG,intron_variant,,EN	-	ENSG00000105549
0	THSD7A,synonymous_va	C	ENSG00000005108
0	THTPA,3_prime_UTR_va	C	ENSG00000259431
0	THUMPD2,intron_variant	-	ENSG00000138050
0	TIAM1,intron_variant,,EN	A	ENSG00000156299
0	TIAM2,intron_variant,,EN	A	ENSG00000146426
0	TICAM1,synonymous_va	A	ENSG00000127666
0	TIMM21,3_prime_UTR_v	C	ENSG00000075336
0	TKT,intron_variant,,ENS	C	ENSG00000163931
0	TKT,intron_variant,,ENS	T	ENSG00000163931
0	TLCD1,5_prime_UTR_va	A	ENSG00000160606
0	TLE3,synonymous_varia	T	ENSG00000140332
0	TLE3,intron_variant,,ENS	C	ENSG00000140332
0	TLK2,intron_variant,,ENS	A	ENSG00000146872
0	TLL1,missense_variant,p	G	ENSG00000038295
0	TLL2,intron_variant,,ENS	C	ENSG00000095587
0	TLL2,intron_variant,,ENS	G	ENSG00000095587
0	TLL2,synonymous_varia	A	ENSG00000095587
0	TLN2,intron_variant,,ENS	-	ENSG00000171914
0	TLX2,5_prime_UTR_vari	T	ENSG00000115297
0	TMED6,missense_varian	G	ENSG00000157315
0	TMEM131,intron_variant,	A	ENSG00000075568
0	TMEM140,missense_var	A	ENSG00000146859
0	TMEM150C,intron_variar	C	ENSG00000249242
0	TMEM185A,3_prime_UT	C	ENSG00000155984
0	TMEM216,intron_variant,	-	ENSG00000187049
0	TMEM220,synonymous_	G	ENSG00000187824
0	TMPRSS11A,3_prime_U	T	ENSG00000187054
0	TNFAIP3,intron_variant,,I	C	ENSG00000118503
0	TNFSF8,synonymous_va	T	ENSG00000106952
0	TNRC18,synonymous_va	G	ENSG00000182095
0	TNS4,intron_variant,,ENS	A	ENSG00000131746
0	TNS4,missense_variant,I	T	ENSG00000131746
0	TP53BP1,missense_varia	C	ENSG00000067369
0	TP53BP1,missense_varia	G	ENSG00000067369
0	TP53BP1,intron_variant,,	G	ENSG00000067369
0	TPGS2,synonymous_var	T	ENSG00000134779
0	TPM4,5_prime_UTR_variGAAGTACCCAGGGTAC		ENSG00000167460
0	TPPP,intron_variant,,ENS	G	ENSG00000171368
0	TPPP,synonymous_varia	C	ENSG00000171368
0	TPRG1,splice_region_va	A	ENSG00000188001
0	TRAPPC6A,intron_variar	T	ENSG00000007255
0	TRAPPC6B,intron_variar	T	ENSG00000182400
0	TRAPPC6B,intron_variar	C	ENSG00000182400
0	TRERF1,missense_varia	T	ENSG00000124496
0	TREX2,intron_variant,,E	C	ENSG00000183479
0	TRIM15,intron_variant,,E	T	ENSG00000204610
0	TRIM27,intron_variant,,E	A	ENSG00000204713
0	TRIM46,intron_variant,,E	A	ENSG00000163462
1	TRIM62,intron_variant,,E	T	ENSG00000116525
0	TRIM67,missense_variar	G	ENSG00000119283
1	TRIM9,splice_region_var	T	ENSG00000100505

VEP annotated somatic variants

0	TRIM9,intron_variant,,EN	CACACAGGTGTTTT	ENSG00000100505
0	TRIO,synonymous_varia	C	ENSG00000038382
0	TRIP6,missense_variant,	T	ENSG00000087077
0	TRMT1,synonymous_var	C	ENSG00000104907
0	TRMT2B,intron_variant,,I	C	ENSG00000188917
0	TRPC4AP,intron_variant,	T	ENSG00000100991
1	TRPM1,intron_variant,,El	C	ENSG00000134160
0	TRPM5,missense_varian	A	ENSG00000070985
0	TRPM7,intron_variant,,El	G	ENSG00000092439
0	TRPV4,intron_variant,,EM	A	ENSG00000111199
0	TSC1,missense_variant,,I	G	ENSG00000165699
0	TSC1,intron_variant,,ENS	A	ENSG00000165699
0	TSC2,intron_variant,,ENS	A	ENSG00000103197
1	TSPAN1,intron_variant,,E	G	ENSG00000117472
0	TSPAN6,missense_varia	T	ENSG00000000003
0	TSPAN7,intron_variant,,E	G	ENSG00000156298
0	TSSK2,synonymous_vari	A	ENSG00000206203
0	TTBK1,intron_variant,,EM	C	ENSG00000146216
0	TTBK1,missense_variant	C	ENSG00000146216
0	TTC18,intron_variant,,EM	T	ENSG00000156042
0	TTC19,3_prime_UTR_va	A	ENSG00000011295
0	TTC28,missense_variant	T	ENSG00000100154
0	TTC40,intron_variant,,EM	T	ENSG00000171811
0	TTC40,5_prime_UTR_va	C	ENSG00000171811
0	TTC40,intron_variant,,EM	C	ENSG00000171811
0	TTC40,synonymous_vari	G	ENSG00000171811
0	TTC40,intron_variant,,EM	C	ENSG00000171811
0	TTL1,splice_region_vari	T	ENSG00000100271
0	TTL6,synonymous_varia	G	ENSG00000170703
0	TUB,intron_variant,,ENS	G	ENSG00000166402
0	TUBGCP5,3_prime_UTR	G	ENSG00000153575
0	TUBGCP6,intron_variant	T	ENSG00000128159
0	TULP4,synonymous_vari	G	ENSG00000130338
0	TULP4,intron_variant,,EM	C	ENSG00000130338
0	TWF1,intron_variant,,EN	G	ENSG00000151239
0	TYMP,intron_variant,,EN	T	ENSG00000025708
0	UBASH3A,intron_variant,	G	ENSG00000160185
0	UBASH3B,intron_variant,	A	ENSG00000154127
0	UBE3C,synonymous_var	C	ENSG00000009335
0	UBR4,3_prime_UTR_var	A	ENSG00000127481
0	UBXN2B,intron_variant,,I	C	ENSG00000215114
0	UCP3,intron_variant,,EN	A	ENSG00000175564
0	UHRF1,non_coding_tran	T	ENSG00000034063
0	UHRF2,intron_variant,,El	A	ENSG00000147854
0	ULK4,splice_region_vari	G	ENSG00000168038
0	UMODL1,intron_variant,,	T	ENSG00000177398
1	UMODL1,missense_varia	A	ENSG00000177398
0	UMODL1,splice_region_v	T	ENSG00000177398
0	UNC45B,intron_variant,,E	A	ENSG00000141161
0	UNKL,intron_variant,,EN	G	ENSG00000059145
0		A	
0	UPB1,synonymous_varia	A	ENSG00000100024
0	UPRT,intron_variant,,EN	T	ENSG00000094841
0	USH2A,missense_varian	T	ENSG00000042781
1	USHBP1,synonymous_v	C	ENSG00000130307

VEP annotated somatic variants

0	USP10,stop_gained,p.Ph	AGCTCAGTTC	ENSG00000103194
0	USP11,synonymous_vari	T	ENSG00000102226
1	USP18,intron_variant,,E	G	ENSG00000184979
0	USP20,intron_variant,,E	G	ENSG00000136878
0	USP22,3_prime_UTR_va	T	ENSG00000124422
0	USP34,intron_variant,,E	T	ENSG00000115464
0	UTP15,intron_variant,,E	T	ENSG00000164338
0	UTP20,intron_variant,,E	C	ENSG00000120800
0	UTP20,intron_variant,,E	A	ENSG00000120800
0	UTY,intron_variant,,ENS	T	ENSG00000183878
0	VIM,intron_variant,,ENST	A	ENSG00000026025
0	VIPR2,missense_variant,	T	ENSG00000106018
0	VRK2,intron_variant,,ENS	G	ENSG00000028116
0	VTI1B,missense_variant,	T	ENSG00000100568
0	WBSCR22,intron_variant	-	ENSG00000071462
0	WBSCR22,intron_variant	G	ENSG00000071462
0	WBSCR27,missense_va	A	ENSG00000165171
0	WDFY4,intron_variant,,E	C	ENSG00000128815
0	WDR11,intron_variant,,E	T	ENSG00000120008
0	WDR11,synonymous_va	A	ENSG00000120008
0	WDR11,intron_variant,,E	T	ENSG00000120008
0	WDR11,synonymous_va	A	ENSG00000120008
0	WDR11,intron_variant,,E	T	ENSG00000120008
0	WDR17,intron_variant,,E	G	ENSG00000150627
0	WDR26,intron_variant,,E	A	ENSG00000162923
1	WDR43,intron_variant,,E	T	ENSG00000163811
0	WDR48,intron_variant,,E	A	ENSG00000114742
0	WDR60,intron_variant,,E	C	ENSG00000126870
0	WDR87,inframe_deletion	-	ENSG00000171804
0	WDR91,intron_variant,,E	C	ENSG00000105875
0	WIPI2,intron_variant,,EN	A	ENSG00000157954
0	WNK1,missense_variant	A	ENSG00000060237
0	WNT2B,synonymous_va	G	ENSG00000134245
0	WNT8B,missense_variar	C	ENSG00000075290
0	WRNIP1,intron_variant,,E	G	ENSG00000124535
0	WSB2,intron_variant,,EN	T	ENSG00000176871
1	WWC1,intron_variant,,E	C	ENSG00000113645
0	WWP2,synonymous_vari	T	ENSG00000198373
0	XAB2,intron_variant,,ENS	T	ENSG00000076924
0	XKR8,3_prime_UTR_var	A	ENSG00000158156
0	XPNPEP1,intron_variant,	C	ENSG00000108039
0	XPNPEP3,intron_variant,	A	ENSG00000196236
0	XPO5,splice_region_vari	C	ENSG00000124571
0	XRCC1,synonymous_var	C	ENSG00000073050
0	XRCC1,intron_variant,,E	T	ENSG00000073050
0	YBX2,intron_variant,,ENS	T	ENSG00000006047
0	YY1AP1,3_prime_UTR_\	G	ENSG00000163374
0	YY1AP1,synonymous_va	C	ENSG00000163374
0	ZBTB2,synonymous_vari	T	ENSG00000181472
0	ZC2HC1B,intron_variant,	G	ENSG00000118491
0	ZC3H12D,3_prime_UTR.	G	ENSG00000178199
0	ZC3H12D,intron_variant,	G	ENSG00000178199
0	ZC3H12D,5_prime_UTR.	A	ENSG00000178199
0	ZC3H3,intron_variant,,E	T	ENSG00000014164
0	ZC3H7B,intron_variant,,E	T	ENSG00000100403

VEP annotated somatic variants

0	ZCCHC18,synonymous_v	G	ENSG00000166707
0	ZDHC16,missense_var	T	ENSG00000171307
0	ZDHC6,synonymous_v	A	ENSG00000023041
0	ZDHC7,intron_variant,,l	T	ENSG00000153786
0	ZFAND2A,intron_variant,	C	ENSG00000178381
0	ZFH2,missense_varian	G	ENSG00000136367
0	ZFPM2,intron_variant,,E	T	ENSG00000169946
0	ZFYVE19,3_prime_UTR_	C	ENSG00000166140
0	ZKSCAN5,5_prime_UTR	T	ENSG00000196652
0	ZMYND10,intron_variant,	G	ENSG00000004838
0	ZMYND10,intron_variant,	A	ENSG00000004838
0	ZNF185,intron_variant,,E	A	ENSG00000147394
0	ZNF275,splice_region_va	T	ENSG00000063587
0	ZNF304,missense_variar	C	ENSG00000131845
0	ZNF324,intron_variant,,E	T	ENSG00000083812
0	ZNF365,intron_variant,,E	A	ENSG00000138311
0	ZNF414,3_prime_UTR_v	G	ENSG00000133250
0	ZNF420,intron_variant,,E	T	ENSG00000197050
0	ZNF432,synonymous_va	G	ENSG00000256087
0	ZNF441,intron_variant,,E	G	ENSG00000197044
0	ZNF449,intron_variant,,E	T	ENSG00000173275
0	ZNF493,intron_variant,,E	C	ENSG00000196268
0	ZNF512B,intron_variant,,	C	ENSG00000196700
1	ZNF592,missense_variar	A	ENSG00000166716
0	ZNF598,missense_variar	T	ENSG00000167962
0	ZNF614,missense_variar	A	ENSG00000142556
0	ZNF626,5_prime_UTR_v	AAGT	ENSG00000188171
2	ZNF676,missense_variar	T	ENSG00000196109
0	ZNF697,synonymous_va	A	ENSG00000143067
0	ZNF708,missense_variar	C	ENSG00000182141
0	ZNF717,5_prime_UTR_v	T	ENSG00000227124
0	ZNF75D,synonymous_va	T	ENSG00000186376
0	ZNF785,missense_variar	C	ENSG00000197162
0	ZNF816,synonymous_va	T	ENSG00000180257
0	ZNF839,synonymous_va	T	ENSG00000022976
1	ZP1,missense_varian,p.	T	ENSG00000149506
0	ZSCAN2,3_prime_UTR_	A	ENSG00000176371
0	ZSWIM4,intron_variant,,E	C	ENSG00000132003
0	ZZEF1,intron_variant,,E	T	ENSG00000074755



VEP annotated somatic variants

Feature	Feature_type	Consequence	cDNA_position
ENST00000356517	Transcript	intron_variant	-/1487
ENST00000375234	Transcript	intron_variant	-/2863
ENST00000393376	Transcript	intron_variant	-/3233
ENST00000269081	Transcript	synonymous_variant	1693/6362
ENST00000301732	Transcript	3_prime_UTR_variant	5851/6609
ENST00000284425	Transcript	intron_variant	-/5300
ENST00000284425	Transcript	intron_variant	-/5300
ENST00000340001	Transcript	intron_variant	-/6514
ENST00000399410	Transcript	synonymous_variant	4213/6552
ENST00000205557	Transcript	intron_variant	-/5747
ENST00000389817	Transcript	synonymous_variant	3888/4921
ENST00000289119	Transcript	5_prime_UTR_variant	89-90/2064
ENST00000302538	Transcript	3_prime_UTR_variant,intron_variant	-/5289
ENST00000436594	Transcript	upstream_gene_variant	-/588
ENST00000600805	Transcript	missense_variant	340/756
ENST00000281182	Transcript	intron_variant	-/2249
ENST00000420607	Transcript	intron_variant	-/1332
ENST00000358776	Transcript	intron_variant	-/5859
ENST00000366812	Transcript	intron_variant	-/3573
ENST00000301452	Transcript	5_prime_UTR_variant	37/1445
ENST00000256997	Transcript	intron_variant	-/2203
ENST00000286353	Transcript	3_prime_UTR_variant,intron_variant	-/3281
ENST00000258873	Transcript	intron_variant	-/6357
ENST00000317447	Transcript	intron_variant	-/3664
ENST00000399422	Transcript	intron_variant	-/2142
ENST00000352511	Transcript	3_prime_UTR_variant,intron_variant	-/11821
ENST00000356955	Transcript	missense_variant	2406/2949
ENST00000310823	Transcript	intron_variant	-/4349
ENST00000373208	Transcript	missense_variant	2818/5269
ENST00000251582	Transcript	intron_variant	-/6754
ENST00000389420	Transcript	intron_variant	-/6076
ENST00000367996	Transcript	intron_variant	-/9773
ENST00000381055	Transcript	intron_variant	-/7311
ENST00000380548	Transcript	intron_variant	-/8030
ENST00000367236	Transcript	intron_variant	-/3407
ENST00000369716	Transcript	upstream_gene_variant	-/1517
ENST00000304129	Transcript	synonymous_variant	651/3705
ENST00000395146	Transcript	intron_variant	-/9285
ENST00000370460	Transcript	intron_variant	-/13746
ENST00000397238	Transcript	intron_variant	-/3225
ENST00000436302	Transcript	intron_variant	-/3533
ENST00000542281	Transcript	synonymous_variant	1019/2412
ENST00000367800	Transcript	intron_variant	-/5921
ENST00000302312	Transcript	intron_variant	-/524
ENST00000357847	Transcript	synonymous_variant	98/1395
ENST00000527815	Transcript	intron_variant	-/2523
ENST00000527815	Transcript	intron_variant	-/2523
ENST00000381129	Transcript	missense_variant	367/2959
ENST00000291582	Transcript	synonymous_variant	715/2257
ENST00000291582	Transcript	intron_variant	-/2257
ENST00000356239	Transcript	3_prime_UTR_variant,intron_variant	-/12471
ENST00000356239	Transcript	intron_variant	-/12471
ENST00000359579	Transcript	intron_variant	-/1590
ENST00000295897	Transcript	intron_variant	-/2263

VEP annotated somatic variants

ENST00000293350	Transcript	intron_variant	-/3153
ENST00000329841	Transcript	intron_variant	-/3924
ENST00000374391	Transcript	intron_variant	-/2504
ENST00000258888	Transcript	5_prime_UTR_variant	94/10917
ENST00000258888	Transcript	intron_variant	-/10917
ENST00000356289	Transcript	intron_variant	-/1944
ENST00000356289	Transcript	intron_variant	-/1944
ENST00000341068	Transcript	synonymous_variant	5114/8259
ENST00000265709	Transcript	intron_variant	-/6379
ENST00000520309	Transcript	intron_variant	-/4410
ENST00000303941	Transcript	intron_variant	-/2543
ENST00000357997	Transcript	intron_variant	-/4481
ENST00000290943	Transcript	missense_variant	3121/3773
ENST00000376087	Transcript	intron_variant	-/6591
ENST00000399451	Transcript	3_prime_UTR_variant,intron_v	-/6564
ENST00000355594	Transcript	synonymous_variant	891/3342
ENST00000267116	Transcript	intron_variant	-/8688
ENST00000341048	Transcript	intron_variant	-/2500
ENST00000374700	Transcript	intron_variant	-/5070
ENST00000595053	Transcript	5_prime_UTR_variant	62/1130
ENST00000357586	Transcript	intron_variant	-/4176
ENST00000359032	Transcript	intron_variant	-/3286
ENST00000261842	Transcript	intron_variant	-/6758
ENST00000261842	Transcript	missense_variant,splice_region_	1172/6758
ENST00000376236	Transcript	intron_variant	-/2771
ENST00000373173	Transcript	intron_variant	-/1279
ENST00000337801	Transcript	missense_variant	152/1084
ENST00000337801	Transcript	5_prime_UTR_variant	6/1084
ENST00000383168	Transcript	intron_variant	-/5274
ENST00000357872	Transcript	missense_variant	2042/4581
ENST00000256682	Transcript	intron_variant	-/4105
ENST00000336498	Transcript	missense_variant	2289/3299
ENST00000453547	Transcript	intron_variant	-/8956
ENST00000276211	Transcript	intron_variant	-/3083
ENST00000370028	Transcript	synonymous_variant	1864/3372
ENST00000368194	Transcript	intron_variant	-/6889
ENST00000378378	Transcript	intron_variant	-/3061
ENST00000361247	Transcript	upstream_gene_variant	-/4149
ENST00000338458	Transcript	missense_variant	1209/3639
ENST00000375741	Transcript	synonymous_variant	793/5525
ENST00000378909	Transcript	intron_variant	-/1411
ENST00000377275	Transcript	3_prime_UTR_variant,synonymous	725/7196
ENST00000481646	Transcript	intron_variant	-/3043
ENST00000423738	Transcript	5_prime_UTR_variant	7/7420
ENST00000423738	Transcript	missense_variant	452/7420
ENST00000423738	Transcript	upstream_gene_variant	-/7420
ENST00000423738	Transcript	synonymous_variant	6211/7420
ENST00000412477	Transcript	intron_variant	-/1779
ENST00000222250	Transcript	intron_variant	-/2503
ENST00000222250	Transcript	3_prime_UTR_variant,intron_v	-/2503
ENST00000216124	Transcript	missense_variant	978/2050
ENST00000263207	Transcript	intron_variant	-/4041
ENST00000420175	Transcript	intron_variant	-/1694
ENST00000487349	Transcript	intron_variant	-/3179
ENST00000325885	Transcript	intron_variant	-/3825

VEP annotated somatic variants

ENST00000277458	Transcript	5_prime_UTR_variant	98/2330
ENST00000347842	Transcript	intron_variant	-/2684
ENST00000306729	Transcript	intron_variant	-/2123
ENST00000342380	Transcript	intron_variant	-/1296
ENST00000342380	Transcript	intron_variant	-/1296
ENST00000361209	Transcript	intron_variant	-/4622
ENST00000269197	Transcript	intron_variant	-/11344
ENST00000284629	Transcript	intron_variant	-/1865
ENST00000317868	Transcript	intron_variant	-/2938
ENST00000358385	Transcript	intron_variant	-/2647
ENST00000487903	Transcript	3_prime_UTR_variant	3843/8858
ENST00000326735	Transcript	synonymous_variant	1039/3840
ENST00000361216	Transcript	synonymous_variant	2348/5421
ENST00000368081	Transcript	intron_variant	-/3839
ENST00000262429	Transcript	intron_variant	-/3376
ENST00000356708	Transcript	intron_variant	-/1163
ENST00000341514	Transcript	intron_variant	-/8483
ENST00000536015	Transcript	intron_variant	-/5935
ENST00000338821	Transcript	intron_variant	-/8106
ENST00000338821	Transcript	intron_variant	-/8106
ENST00000320211	Transcript	intron_variant	-/2590
ENST00000395547	Transcript	intron_variant	-/3981
ENST00000374521	Transcript	intron_variant	-/1365
ENST00000276101	Transcript	3_prime_UTR_variant,intron_v	-/2124
ENST00000367618	Transcript	splice_region_variant,splice_region_	1951/3642
ENST00000262320	Transcript	intron_variant	-/3643
ENST00000318683	Transcript	missense_variant	1130/2226
ENST00000321300	Transcript	intron_variant	-/2879
ENST00000324385	Transcript	intron_variant	-/4678
ENST00000542236	Transcript	missense_variant	1538/3431
ENST00000269980	Transcript	5_prime_UTR_variant	335/2103
ENST00000223368	Transcript	intron_variant	-/1975
ENST00000540052	Transcript	intron_variant	-/7127
ENST00000449131	Transcript	intron_variant	-/4267
ENST00000281474	Transcript	splice_donor_variant	-/3281
ENST00000224337	Transcript	intron_variant	-/1784
ENST00000252677	Transcript	missense_variant	308/1179
ENST00000345382	Transcript	intron_variant	-/4610
ENST00000170150	Transcript	intron_variant	-/1898
ENST00000306378	Transcript	intron_variant	-/9688
ENST00000471181	Transcript	intron_variant	-/5936
ENST00000471181	Transcript	intron_variant	-/5936
ENST00000471181	Transcript	intron_variant	-/5936
ENST00000544455	Transcript	intron_variant	-/10984
ENST00000467963	Transcript	intron_variant	-/2156
ENST00000333229	Transcript	synonymous_variant	1192/10141
ENST00000446293	Transcript	intron_variant	-/1505
ENST00000333511	Transcript	intron_variant	-/1974
ENST00000333511	Transcript	intron_variant	-/1974
ENST00000260723	Transcript	intron_variant	-/1849
ENST00000260723	Transcript	missense_variant	1243/1849
ENST00000342818	Transcript	intron_variant	-/1408
ENST00000256015	Transcript	intron_variant	-/2448
ENST00000327705	Transcript	synonymous_variant	1224/3500
ENST00000343736	Transcript	intron_variant	-/5947

VEP annotated somatic variants

ENST00000441508	Transcript	upstream_gene_variant	-/4837
ENST00000374144	Transcript	synonymous_variant	4560/5230
ENST00000284694	Transcript	intron_variant	-/3076
ENST00000378615	Transcript	intron_variant	-/1651
ENST00000261318	Transcript	missense_variant	325/2801
ENST00000524981	Transcript	intron_variant	-/9766
ENST00000330828	Transcript	frameshift_variant	753-754/1684
ENST00000399910	Transcript	intron_variant	-/1670
ENST00000381365	Transcript	downstream_gene_variant	-/3199
ENST00000319977	Transcript	3_prime_UTR_variant	2230/2725
ENST00000590083	Transcript	missense_variant	1405/4261
ENST00000301246	Transcript	5_prime_UTR_variant	95/467
ENST00000304661	Transcript	missense_variant	632/1613
ENST00000366534	Transcript	synonymous_variant	1788/3333
ENST00000371007	Transcript	intron_variant	-/2153
ENST00000343433	Transcript	intron_variant	-/3135
ENST00000326665	Transcript	3_prime_UTR_variant,intron_variant	-/7159
ENST00000339142	Transcript	intron_variant	-/3100
ENST00000388934	Transcript	3_prime_UTR_variant	1513/1911
ENST00000290390	Transcript	intron_variant	-/2227
ENST00000245907	Transcript	intron_variant	-/5263
ENST00000398965	Transcript	intron_variant	-/2177
ENST00000223642	Transcript	intron_variant	-/5462
ENST00000223642	Transcript	intron_variant	-/5462
ENST00000380175	Transcript	5_prime_UTR_variant	433/1834
ENST00000313164	Transcript	intron_variant	-/4257
ENST00000451037	Transcript	intron_variant	-/3189
ENST00000309893	Transcript	synonymous_variant	711/1094
ENST00000398319	Transcript	missense_variant	2831/7480
ENST00000360228	Transcript	intron_variant	-/8392
ENST00000371372	Transcript	3_prime_UTR_variant,intron_variant	-/9790
ENST00000347598	Transcript	intron_variant	-/6655
ENST00000479441	Transcript	intron_variant	-/3453
ENST00000479441	Transcript	intron_variant	-/3453
ENST00000324631	Transcript	intron_variant	-/3446
ENST00000502583	Transcript	intron_variant	-/3284
ENST00000361675	Transcript	intron_variant	-/3612
ENST00000316448	Transcript	5_prime_UTR_variant	3/1903
ENST00000378847	Transcript	3_prime_UTR_variant	1536/8154
ENST00000342666	Transcript	intron_variant	-/1940
ENST00000378494	Transcript	intron_variant	-/1495
ENST00000446248	Transcript	synonymous_variant	950/4179
ENST00000398776	Transcript	intron_variant	-/2728
ENST00000271971	Transcript	intron_variant	-/2362
ENST00000222125	Transcript	intron_variant	-/1221
ENST00000403299	Transcript	intron_variant	-/4113
ENST00000391898	Transcript	intron_variant	-/5263
ENST00000427043	Transcript	3_prime_UTR_variant	1134/3241
ENST00000368078	Transcript	intron_variant	-/1897
ENST00000377022	Transcript	intron_variant	-/7936
ENST00000409235	Transcript	intron_variant	-/3746
ENST00000343849	Transcript	synonymous_variant	104/1431
ENST00000258214	Transcript	synonymous_variant	1540/2463
ENST00000349456	Transcript	intron_variant	-/2048
ENST00000292574	Transcript	missense_variant	815/1732

VEP annotated somatic variants

ENST00000398545	Transcript	intron_variant	-/1851
ENST00000422185	Transcript	3_prime_UTR_variant	2345/3593
ENST00000305866	Transcript	3_prime_UTR_variant	3046/3613
ENST00000329214	Transcript	intron_variant	-/2468
ENST00000369704	Transcript	synonymous_variant	704/3313
ENST00000388914	Transcript	missense_variant	2177/3663
ENST00000511166	Transcript	intron_variant	-/2051
ENST00000370276	Transcript	intron_variant	-/4779
ENST00000392343	Transcript	synonymous_variant	511/2896
ENST00000263102	Transcript	intron_variant	-/5811
ENST00000445632	Transcript	intron_variant	-/2528
ENST00000311925	Transcript	intron_variant	-/687
ENST00000292301	Transcript	intron_variant	-/2671
ENST00000287097	Transcript	missense_variant	2502/9130
ENST00000398214	Transcript	frameshift_variant	834/1296
ENST00000368033	Transcript	intron_variant	-/1360
ENST00000360141	Transcript	intron_variant	-/1856
ENST00000309424	Transcript	missense_variant	1264/3286
ENST00000322875	Transcript	intron_variant	-/3278
ENST00000312648	Transcript	inframe_deletion	622-648/1281
ENST00000394886	Transcript	upstream_gene_variant	-/3153
ENST00000342711	Transcript	intron_variant	-/5742
ENST00000437685	Transcript	intron_variant	-/2007
ENST00000296129	Transcript	missense_variant	1709/6006
ENST00000507958	Transcript	intron_variant	-/3542
ENST00000368911	Transcript	intron_variant	-/6246
ENST00000425876	Transcript	intron_variant	-/1582
ENST00000256443	Transcript	intron_variant	-/1432
ENST00000274695	Transcript	synonymous_variant	1394/3272
ENST00000379989	Transcript	intron_variant	-/3459
ENST00000460006	Transcript	intron_variant	-/9298
ENST00000376288	Transcript	intron_variant	-/2552
ENST00000376288	Transcript	5_prime_UTR_variant	22/2552
ENST00000401445	Transcript	intron_variant	-/1008
ENST00000357396	Transcript	intron_variant	-/1316
ENST00000399839	Transcript	intron_variant	-/3986
ENST00000262608	Transcript	intron_variant	-/5637
ENST00000262608	Transcript	missense_variant	755/5637
ENST00000336737	Transcript	intron_variant	-/1799
ENST00000331437	Transcript	synonymous_variant	678/4954
ENST00000372927	Transcript	intron_variant	-/3262
ENST00000368328	Transcript	missense_variant	183/750
ENST00000397527	Transcript	intron_variant	-/8398
ENST00000397527	Transcript	intron_variant	-/8398
ENST00000337090	Transcript	intron_variant	-/5778
ENST00000337090	Transcript	intron_variant	-/5778
ENST00000264982	Transcript	missense_variant	671/2732
ENST00000556440	Transcript	intron_variant	-/3139
ENST00000372838	Transcript	intron_variant	-/2685
ENST00000317091	Transcript	intron_variant	-/3927
ENST00000367429	Transcript	missense_variant	1444/4127
ENST00000003084	Transcript	synonymous_variant	4521/6128
ENST00000597853	Transcript	5_prime_UTR_variant	2838/3386
ENST00000369258	Transcript	synonymous_variant	59/2967
ENST00000432561	Transcript	intron_variant	-/2648

VEP annotated somatic variants

ENST00000432561	Transcript	intron_variant	-/2648
ENST00000445067	Transcript	missense_variant	1316/2169
ENST00000306071	Transcript	3_prime_UTR_variant	1641/2557
ENST00000306243	Transcript	3_prime_UTR_variant	1390/2194
ENST00000324288	Transcript	intron_variant	-/9438
ENST00000536961	Transcript	synonymous_variant	722/845
ENST00000392521	Transcript	intron_variant	-/8708
ENST00000453707	Transcript	missense_variant	619/998
ENST00000424301	Transcript	intron_variant	-/1637
ENST00000346436	Transcript	intron_variant	-/5583
ENST00000331433	Transcript	intron_variant	-/2475
ENST00000401528	Transcript	3_prime_UTR_variant	1906/2131
ENST00000299663	Transcript	5_prime_UTR_variant	142/2159
ENST00000369449	Transcript	3_prime_UTR_variant	982/2655
ENST00000374379	Transcript	splice_acceptor_variant	-/4346
ENST00000540338	Transcript	intron_variant	-/4400
ENST00000320081	Transcript	intron_variant	-/4293
ENST00000379510	Transcript	intron_variant	-/5315
ENST00000356713	Transcript	intron_variant	-/5959
ENST00000317147	Transcript	synonymous_variant	5049/8471
ENST00000289382	Transcript	intron_variant	-/2599
ENST00000537554	Transcript	synonymous_variant	4922/8974
ENST00000397461	Transcript	intron_variant	-/5198
ENST00000361727	Transcript	intron_variant	-/9894
ENST00000361727	Transcript	3_prime_UTR_variant,intron_v	-/9894
ENST00000373855	Transcript	intron_variant	-/7660
ENST00000265136	Transcript	synonymous_variant	3691/5291
ENST00000323786	Transcript	intron_variant	-/2833
ENST00000297135	Transcript	intron_variant	-/4060
ENST00000353479	Transcript	intron_variant	-/5734
ENST00000390654	Transcript	intron_variant	-/3061
ENST00000370571	Transcript	intron_variant	-/6825
ENST00000370571	Transcript	intron_variant	-/6825
ENST00000313669	Transcript	missense_variant	1432/3007
ENST00000372216	Transcript	intron_variant	-/6570
ENST00000264828	Transcript	intron_variant	-/6174
ENST00000361866	Transcript	intron_variant	-/4238
ENST00000295550	Transcript	intron_variant	-/10749
ENST00000361682	Transcript	synonymous_variant	790/2437
ENST00000411948	Transcript	intron_variant	-/2631
ENST00000264613	Transcript	intron_variant	-/4676
ENST00000568128	Transcript	intron_variant	-/2112
ENST00000265085	Transcript	3_prime_UTR_variant	3698/9483
ENST00000367057	Transcript	missense_variant	3343/4240
ENST00000373631	Transcript	intron_variant	-/5550
ENST00000348438	Transcript	intron_variant	-/1600
ENST00000280527	Transcript	intron_variant	-/5912
ENST00000280527	Transcript	intron_variant	-/5912
ENST00000433368	Transcript	synonymous_variant	847/2205
ENST00000377340	Transcript	intron_variant	-/4406
ENST00000268184	Transcript	intron_variant	-/2537
ENST00000182096	Transcript	intron_variant	-/4782
ENST00000419587	Transcript	5_prime_UTR_variant	135/4261
ENST00000370287	Transcript	5_prime_UTR_variant	314/875
ENST00000217244	Transcript	intron_variant	-/4416

VEP annotated somatic variants

ENST00000308508	Transcript	synonymous_variant	4005/8290
ENST00000423479	Transcript	intron_variant	-/2465
ENST00000598234	Transcript	synonymous_variant	4641/7627
ENST00000433211	Transcript	intron_variant	-/10675
ENST00000325551	Transcript	synonymous_variant	510/2490
ENST00000377833	Transcript	synonymous_variant	1977/11949
ENST00000537177	Transcript	intron_variant	-/2376
ENST00000535468	Transcript	missense_variant	4802/5504
ENST00000360264	Transcript	intron_variant	-/13762
ENST00000360264	Transcript	missense_variant	2952/13762
ENST00000410053	Transcript	intron_variant	-/3280
ENST00000410053	Transcript	synonymous_variant	2703/3280
ENST00000282251	Transcript	missense_variant	1355/3278
ENST00000373691	Transcript	5_prime_UTR_variant	110/1861
ENST00000426130	Transcript	intron_variant	-/3205
ENST00000533558	Transcript	intron_variant	-/1658
ENST00000330436	Transcript	intron_variant	-/1739
ENST00000330436	Transcript	intron_variant	-/1739
ENST00000336411	Transcript	intron_variant	-/2153
ENST00000550308	Transcript	missense_variant	418/2044
ENST00000003100	Transcript	intron_variant	-/3210
ENST00000257215	Transcript	synonymous_variant	179/5757
ENST00000264161	Transcript	intron_variant	-/2361
ENST00000260803	Transcript	intron_variant	-/2666
ENST00000254337	Transcript	intron_variant	-/2271
ENST00000254337	Transcript	synonymous_variant	255/2271
ENST00000254337	Transcript	intron_variant	-/2271
ENST00000442544	Transcript	intron_variant	-/5721
ENST00000378454	Transcript	synonymous_variant	1319/4707
ENST00000339452	Transcript	5_prime_UTR_variant	282/5055
ENST00000357067	Transcript	synonymous_variant	414/1931
ENST00000407793	Transcript	intron_variant	-/3922
ENST00000407793	Transcript	intron_variant	-/3922
ENST00000331314	Transcript	intron_variant	-/2289
ENST00000373624	Transcript	intron_variant	-/5010
ENST00000328194	Transcript	missense_variant	991/5031
ENST00000265036	Transcript	intron_variant	-/2499
ENST00000263196	Transcript	intron_variant	-/4480
ENST00000403951	Transcript	intron_variant	-/6917
ENST00000376223	Transcript	intron_variant	-/1723
ENST00000284690	Transcript	intron_variant	-/3070
ENST00000308736	Transcript	intron_variant	-/4548
ENST00000262415	Transcript	downstream_gene_variant	-/5558
ENST00000262415	Transcript	intron_variant	-/5558
ENST00000262415	Transcript	intron_variant	-/5558
ENST00000398557	Transcript	intron_variant	-/5789
ENST00000301180	Transcript	intron_variant	-/8593
ENST00000319212	Transcript	3_prime_UTR_variant	3290-3293/3647
ENST00000366636	Transcript	3_prime_UTR_variant	2158/2224
ENST00000366633	Transcript	intron_variant	-/2676
ENST00000220812	Transcript	intron_variant	-/894
ENST00000376104	Transcript	intron_variant	-/5139
ENST00000374360	Transcript	intron_variant	-/5905
ENST00000372391	Transcript	intron_variant	-/7415
ENST00000357338	Transcript	intron_variant	-/2038

VEP annotated somatic variants

ENST00000339686	Transcript	intron_variant	-/1927
ENST00000399180	Transcript	intron_variant	-/4416
ENST00000328843	Transcript	intron_variant	-/14188
ENST00000351747	Transcript	intron_variant	-/9542
ENST00000430092	Transcript	intron_variant	-/13788
ENST00000430092	Transcript	intron_variant	-/13788
ENST00000430092	Transcript	intron_variant	-/13788
ENST00000430092	Transcript	intron_variant	-/13788
ENST00000430092	Transcript	intron_variant	-/13788
ENST00000389840	Transcript	intron_variant	-/13792
ENST00000359357	Transcript	intron_variant	-/13860
ENST00000262442	Transcript	intron_variant	-/13750
ENST00000296218	Transcript	3_prime_UTR_variant,intron_v	-/2649
ENST00000370665	Transcript	intron_variant	-/1269
ENST00000324109	Transcript	intron_variant	-/6400
ENST00000256935	Transcript	intron_variant	-/6097
ENST00000266037	Transcript	intron_variant	-/8755
ENST00000398665	Transcript	synonymous_variant	3474/7436
ENST00000393092	Transcript	missense_variant	1342/1734
ENST00000355526	Transcript	intron_variant	-/1632
ENST00000370109	Transcript	intron_variant	-/1316
ENST00000324472	Transcript	3_prime_UTR_variant,intron_v	-/4060
ENST00000294485	Transcript	3_prime_UTR_variant,intron_v	-/7346
ENST00000395209	Transcript	intron_variant	-/7277
ENST00000395209	Transcript	intron_variant	-/7277
ENST00000395209	Transcript	intron_variant	-/7277
ENST00000321322	Transcript	intron_variant	-/6899
ENST00000257189	Transcript	intron_variant	-/5525
ENST00000359747	Transcript	synonymous_variant	3152/4526
ENST00000359747	Transcript	synonymous_variant	59/4526
ENST00000379802	Transcript	intron_variant	-/9796
ENST00000244364	Transcript	intron_variant	-/16742
ENST00000310850	Transcript	intron_variant	-/2717
ENST00000344537	Transcript	intron_variant	-/1403
ENST00000510708	Transcript	intron_variant	-/2307
ENST00000324432	Transcript	synonymous_variant	789/2769
ENST00000334679	Transcript	5_prime_UTR_variant	468/2479
ENST00000279488	Transcript	missense_variant	1662/4400
ENST00000324972	Transcript	intron_variant	-/2950
ENST00000398093	Transcript	intron_variant	-/12945
ENST00000431635	Transcript	5_prime_UTR_variant	57/1503
ENST00000495186	Transcript	missense_variant	900/1775
ENST00000374893	Transcript	5_prime_UTR_variant,splice_region_	1097/2484
ENST00000304546	Transcript	intron_variant	-/2865
ENST00000392692	Transcript	intron_variant	-/4158
ENST00000423192	Transcript	intron_variant	-/4319
ENST00000318130	Transcript	intron_variant	-/6898
ENST00000379375	Transcript	intron_variant	-/2033
ENST00000377211	Transcript	intron_variant	-/4471
ENST00000322349	Transcript	intron_variant	-/9875
ENST00000217182	Transcript	intron_variant	-/1843
ENST00000379715	Transcript	intron_variant	-/1077
ENST00000331493	Transcript	intron_variant	-/3931
ENST00000450662	Transcript	intron_variant	-/1691
ENST00000440314	Transcript	intron_variant	-/2697



VEP annotated somatic variants

ENST00000295824	Transcript	synonymous_variant	534/2823
ENST00000268206	Transcript	intron_variant	-/3675
ENST00000426333	Transcript	intron_variant	-/4548
ENST00000253039	Transcript	synonymous_variant	352/2858
ENST00000308167	Transcript	synonymous_variant	1889/4165
ENST00000402918	Transcript	synonymous_variant	1203/8361
ENST00000402918	Transcript	synonymous_variant	2295/8361
ENST00000402918	Transcript	synonymous_variant	2004/8361
ENST00000252034	Transcript	intron_variant	-/3781
ENST00000354666	Transcript	3_prime_UTR_variant,intron_v	-/3997
ENST00000477853	Transcript	missense_variant	1077/6664
ENST00000220853	Transcript	intron_variant	-/1243
ENST00000220853	Transcript	intron_variant	-/1243
ENST00000334192	Transcript	missense_variant	1857/4064
ENST00000334192	Transcript	intron_variant	-/4064
ENST00000334192	Transcript	intron_variant	-/4064
ENST00000295206	Transcript	synonymous_variant	1000/2457
ENST00000373203	Transcript	intron_variant	-/3048
ENST00000261488	Transcript	intron_variant	-/2982
ENST00000371207	Transcript	intron_variant	-/12515
ENST00000334696	Transcript	downstream_gene_variant	-/5842
ENST00000389561	Transcript	intron_variant	-/12268
ENST00000392957	Transcript	intron_variant	-/4043
ENST00000366837	Transcript	missense_variant	612/1776
ENST00000521400	Transcript	synonymous_variant	1666/3140
ENST00000433197	Transcript	intron_variant	-/7876
ENST00000257934	Transcript	intron_variant	-/6623
ENST00000389567	Transcript	missense_variant	1954/4407
ENST00000557943	Transcript	missense_variant	593/2287
ENST00000354232	Transcript	missense_variant	3202/3551
ENST00000292147	Transcript	synonymous_variant	73/963
ENST00000370331	Transcript	intron_variant	-/7403
ENST00000538904	Transcript	intron_variant	-/2418
ENST00000538904	Transcript	intron_variant	-/2418
ENST00000301607	Transcript	intron_variant	-/6614
ENST00000301607	Transcript	synonymous_variant	3404/6614
ENST00000409018	Transcript	intron_variant	-/3252
ENST00000366548	Transcript	missense_variant	2358/3473
ENST00000381295	Transcript	intron_variant	-/3551
ENST00000367075	Transcript	intron_variant	-/3096
ENST00000360256	Transcript	missense_variant	3981/9059
ENST00000360256	Transcript	intron_variant	-/9059
ENST00000218099	Transcript	missense_variant	1127/2780
ENST00000374900	Transcript	intron_variant	-/1983
ENST00000278840	Transcript	intron_variant	-/3630
ENST00000278829	Transcript	intron_variant	-/1779
ENST00000407106	Transcript	intron_variant	-/2152
ENST00000216214	Transcript	missense_variant	1550/3458
ENST00000370784	Transcript	intron_variant	-/1368
ENST00000370784	Transcript	intron_variant	-/1368
ENST00000391440	Transcript	3_prime_UTR_variant	439/2017
ENST00000391440	Transcript	3_prime_UTR_variant	656/2017
ENST00000395297	Transcript	intron_variant	-/6962
ENST00000368557	Transcript	synonymous_variant	495/1033
ENST00000356467	Transcript	intron_variant	-/1767

VEP annotated somatic variants

ENST00000329203	Transcript	3_prime_UTR_variant	1490/1854
ENST00000265018	Transcript	intron_variant	-/6622
ENST00000327337	Transcript	intron_variant	-/7127
ENST00000324675	Transcript	upstream_gene_variant	-/1184
ENST00000361361	Transcript	intron_variant	-/3082
ENST00000374362	Transcript	5_prime_UTR_variant	58/4623
ENST00000361738	Transcript	intron_variant	-/1961
ENST00000259698	Transcript	synonymous_variant	3176/5471
ENST00000283357	Transcript	missense_variant	606/1560
ENST00000389301	Transcript	intron_variant	-/5451
ENST00000229769	Transcript	intron_variant	-/2554
ENST00000229769	Transcript	intron_variant	-/2554
ENST00000229769	Transcript	synonymous_variant	572/2554
ENST00000536681	Transcript	3_prime_UTR_variant	1812/3616
ENST00000264042	Transcript	intron_variant	-/4051
ENST00000264042	Transcript	intron_variant	-/4051
ENST00000306749	Transcript	synonymous_variant	3870/8560
ENST00000306749	Transcript	intron_variant	-/8560
ENST00000306749	Transcript	intron_variant	-/8560
ENST00000306749	Transcript	upstream_gene_variant	-/8560
ENST00000404922	Transcript	missense_variant	583/4318
ENST00000600128	Transcript	missense_variant	6311/9362
ENST00000434748	Transcript	intron_variant	-/5568
ENST00000478939	Transcript	5_prime_UTR_variant,non_coding_exon_variant	926/1479
ENST00000432825	Transcript	intron_variant	-/4575
ENST00000432825	Transcript	intron_variant	-/4575
ENST00000292852	Transcript	intron_variant	-/2383
ENST00000296438	Transcript	intron_variant	-/1647
ENST00000331272	Transcript	intron_variant	-/2483
ENST00000324852	Transcript	intron_variant	-/2605
ENST00000594202	Transcript	synonymous_variant	1431/3214
ENST00000292408	Transcript	missense_variant	1407/3122
ENST00000336098	Transcript	3_prime_UTR_variant	1417/1659
ENST00000257209	Transcript	intron_variant	-/4967
ENST00000257209	Transcript	synonymous_variant	3074/4967
ENST00000257209	Transcript	intron_variant	-/4967
ENST00000333129	Transcript	intron_variant	-/9536
ENST00000337488	Transcript	intron_variant	-/2198
ENST00000252037	Transcript	synonymous_variant	663/1500
ENST00000424785	Transcript	intron_variant	-/2834
ENST00000369850	Transcript	missense_variant	1523/8382
ENST00000490882	Transcript	intron_variant	-/8079
ENST00000261937	Transcript	intron_variant	-/5857
ENST00000319653	Transcript	intron_variant	-/6434
ENST00000319653	Transcript	intron_variant	-/6434
ENST00000367755	Transcript	synonymous_variant	552/2087
ENST00000263773	Transcript	inframe_deletion	185-190/3969
ENST00000263773	Transcript	intron_variant	-/3969
ENST00000297267	Transcript	intron_variant	-/6552
ENST00000297267	Transcript	synonymous_variant	2291/6552
ENST00000259806	Transcript	synonymous_variant	1398/2187
ENST00000373060	Transcript	intron_variant	-/5948
ENST00000373247	Transcript	3_prime_UTR_variant	2006/2274
ENST00000264895	Transcript	synonymous_variant	2387/12479
ENST00000264895	Transcript	intron_variant	-/12479

VEP annotated somatic variants

ENST00000264895	Transcript	synonymous_variant	8879/12479
ENST00000264895	Transcript	intron_variant	-/12479
ENST00000264895	Transcript	intron_variant	-/12479
ENST00000329798	Transcript	synonymous_variant	3987/6729
ENST00000357447	Transcript	intron_variant	-/6815
ENST00000350221	Transcript	intron_variant	-/2805
ENST00000306100	Transcript	intron_variant	-/4831
ENST00000319725	Transcript	synonymous_variant	1662/3124
ENST00000310160	Transcript	intron_variant	-/4246
ENST00000318336	Transcript	gion_variant,5_prime_UTI	1185/3137
ENST00000292079	Transcript	intron_variant	-/571
ENST00000296137	Transcript	intron_variant	-/8504
ENST00000282538	Transcript	intron_variant	-/3759
ENST00000314167	Transcript	intron_variant	-/4442
ENST00000314167	Transcript	intron_variant	-/4442
ENST00000261304	Transcript	intron_variant	-/3883
ENST00000261304	Transcript	upstream_gene_variant	-/3883
ENST00000588479	Transcript	intron_variant	-/1866
ENST00000297107	Transcript	intron_variant	-/5961
ENST00000324589	Transcript	missense_variant	1481/2169
ENST00000252318	Transcript	missense_variant	494/2380
ENST00000252318	Transcript	missense_variant	1880/2380
ENST00000269209	Transcript	synonymous_variant	1060/3006
ENST00000269209	Transcript	missense_variant	1473/3006
ENST00000269209	Transcript	3_prime_UTR_variant	2729-2730/3006
ENST00000373387	Transcript	5_prime_UTR_variant	205/3800
ENST00000343435	Transcript	intron_variant	-/4047
ENST00000343435	Transcript	intron_variant	-/4047
ENST00000343435	Transcript	synonymous_variant	1197/4047
ENST00000400723	Transcript	synonymous_variant	1388/2051
ENST00000379597	Transcript	intron_variant	-/4525
ENST00000238018	Transcript	3_prime_UTR_variant,intron_v	-/1599
ENST00000342560	Transcript	intron_variant	-/2265
ENST00000249598	Transcript	intron_variant	-/1936
ENST00000308317	Transcript	intron_variant	-/1420
ENST00000486715	Transcript	intron_variant	-/3721
ENST00000233838	Transcript	intron_variant	-/7569
ENST00000334928	Transcript	missense_variant	1571/2239
ENST00000334928	Transcript	missense_variant	1683/2239
ENST00000301671	Transcript	missense_variant	1847/2650
ENST00000367419	Transcript	intron_variant	-/2024
ENST00000262460	Transcript	missense_variant	383/3249
ENST00000205061	Transcript	synonymous_variant	2672/3730
ENST00000205061	Transcript	intron_variant	-/3730
ENST00000262366	Transcript	intron_variant	-/4469
ENST00000373365	Transcript	5_prime_UTR_variant	81/2012
ENST00000372617	Transcript	missense_variant	674/1795
ENST00000372617	Transcript	intron_variant	-/1795
ENST00000360814	Transcript	intron_variant	-/1880
ENST00000287275	Transcript	intron_variant	-/1636
ENST00000282570	Transcript	intron_variant	-/4191
ENST00000248996	Transcript	synonymous_variant	975/3340
ENST00000329517	Transcript	missense_variant	347/6706
ENST00000226413	Transcript	synonymous_variant	478/2164
ENST00000204726	Transcript	synonymous_variant	3601/9252

### VEP annotated somatic variants

ENST00000329125	Transcript	gion_variant,5_prime_UTI	71/2501
ENST00000377047	Transcript	synonymous_variant	1863/6467
ENST00000230036	Transcript	intron_variant	-/3489
ENST00000316715	Transcript	intron_variant	-/3275
ENST00000264718	Transcript	synonymous_variant	42/2496
ENST00000298110	Transcript	missense_variant	370/1527
ENST00000607359	Transcript	missense_variant	652/6004
ENST00000392607	Transcript	5_prime_UTR_variant	276/4283
ENST00000392607	Transcript	intron_variant	-/4283
ENST00000392607	Transcript	intron_variant	-/4283
ENST00000561100	Transcript	intron_variant	-/2816
ENST00000529750	Transcript	synonymous_variant	1752/7723
ENST00000358160	Transcript	intron_variant	-/4177
ENST00000406902	Transcript	intron_variant	-/4484
ENST00000406902	Transcript	intron_variant	-/4484
ENST00000406902	Transcript	intron_variant	-/4484
ENST00000381486	Transcript	intron_variant	-/8484
ENST00000518783	Transcript	upstream_gene_variant	-/5233
ENST00000296526	Transcript	intron_variant	-/5621
ENST00000264357	Transcript	intron_variant	-/5172
ENST00000357716	Transcript	synonymous_variant	2063/4127
ENST00000253458	Transcript	intron_variant	-/7495
ENST00000373818	Transcript	missense_variant	1916/2657
ENST00000340438	Transcript	5_prime_UTR_variant	179/2844
ENST00000398606	Transcript	intron_variant	-/965
ENST00000216465	Transcript	intron_variant	-/1338
ENST00000360803	Transcript	intron_variant	-/4696
ENST00000360803	Transcript	3_prime_UTR_variant	4226/4696
ENST00000218006	Transcript	intron_variant	-/3714
ENST00000389617	Transcript	3_prime_UTR_variant	1533/3260
ENST00000261208	Transcript	intron_variant	-/3913
ENST00000598398	Transcript	intron_variant	-/652
ENST00000080059	Transcript	intron_variant	-/4095
ENST00000080059	Transcript	intron_variant	-/4095
ENST00000441542	Transcript	intron_variant	-/3210
ENST00000398153	Transcript	intron_variant	-/918
ENST00000424830	Transcript	synonymous_variant	570/1334
ENST00000366582	Transcript	intron_variant	-/8447
ENST00000366582	Transcript	intron_variant	-/8447
ENST00000366582	Transcript	synonymous_variant	1957/8447
ENST00000297440	Transcript	missense_variant	1915/3410
ENST00000399332	Transcript	intron_variant	-/9134
ENST00000399332	Transcript	intron_variant	-/9134
ENST00000348459	Transcript	intron_variant	-/3099
ENST00000348459	Transcript	intron_variant	-/3099
ENST00000232854	Transcript	intron_variant	-/6087
ENST00000443617	Transcript	intron_variant	-/15137
ENST00000357618	Transcript	missense_variant	309/5286
ENST00000222390	Transcript	synonymous_variant	1235/5989
ENST00000441594	Transcript	intron_variant	-/1865
ENST00000330710	Transcript	intron_variant	-/7390
ENST00000253410	Transcript	synonymous_variant	290/635
ENST00000304043	Transcript	intron_variant	-/1081
ENST00000359985	Transcript	3_prime_UTR_variant	509/1195
ENST00000377831	Transcript	intron_variant	-/865

VEP annotated somatic variants

ENST00000377364	Transcript	synonymous_variant	48/357
ENST00000354624	Transcript	intron_variant	-/3689
ENST00000418931	Transcript	missense_variant	735/1560
ENST00000399120	Transcript	intron_variant	-/6466
ENST00000310053	Transcript	intron_variant	-/5317
ENST00000278715	Transcript	synonymous_variant	757/1501
ENST00000216106	Transcript	intron_variant	-/4047
ENST00000216106	Transcript	missense_variant	622/4047
ENST00000257555	Transcript	intron_variant	-/3442
ENST00000392006	Transcript	intron_variant	-/3555
ENST00000397668	Transcript	synonymous_variant	1460/2513
ENST00000262626	Transcript	intron_variant	-/2363
ENST00000299238	Transcript	synonymous_variant	601/2646
ENST00000592984	Transcript	3_prime_UTR_variant,intron_v	-/1634
ENST00000287907	Transcript	synonymous_variant	588/2912
ENST00000342160	Transcript	synonymous_variant	2567/14796
ENST00000342160	Transcript	missense_variant	6445/14796
ENST00000407780	Transcript	missense_variant	510/7080
ENST00000407780	Transcript	intron_variant	-/7080
ENST00000407780	Transcript	3_prime_UTR_variant	6946/7080
ENST00000330062	Transcript	intron_variant	-/2694
ENST00000299518	Transcript	intron_variant	-/4128
ENST00000368131	Transcript	missense_variant	826/2734
ENST00000342136	Transcript	missense_variant	354/2899
ENST00000268035	Transcript	intron_variant	-/11803
ENST00000356956	Transcript	intron_variant	-/9091
ENST00000356956	Transcript	3_prime_UTR_variant,intron_v	-/9091
ENST00000356956	Transcript	intron_variant	-/9091
ENST00000270642	Transcript	intron_variant	-/2606
ENST00000370903	Transcript	synonymous_variant	1630/4594
ENST00000370903	Transcript	synonymous_variant	2854/4594
ENST00000370903	Transcript	intron_variant	-/4594
ENST00000393775	Transcript	intron_variant	-/3495
ENST00000393775	Transcript	missense_variant	1305/3495
ENST00000393775	Transcript	intron_variant	-/3495
ENST00000513874	Transcript	3_prime_UTR_variant,intron_v	-/4284
ENST00000533871	Transcript	intron_variant	-/5050
ENST00000374647	Transcript	synonymous_variant	3377/5905
ENST00000295981	Transcript	intron_variant	-/2621
ENST00000316649	Transcript	missense_variant	766/3485
ENST00000270800	Transcript	intron_variant	-/2798
ENST00000379959	Transcript	3_prime_UTR_variant	1063/3176
ENST00000563197	Transcript	3_prime_UTR_variant	1809/2103
ENST00000397262	Transcript	3_prime_UTR_variant	575/639
ENST00000397270	Transcript	intron_variant	-/828
ENST00000302850	Transcript	synonymous_variant	1793/4721
ENST00000302850	Transcript	intron_variant	-/4721
ENST00000404767	Transcript	intron_variant	-/6959
ENST00000404767	Transcript	intron_variant	-/6959
ENST00000311234	Transcript	intron_variant	-/3662
ENST00000274364	Transcript	intron_variant	-/5844
ENST00000361170	Transcript	intron_variant	-/5988
ENST00000538872	Transcript	intron_variant	-/7094
ENST00000357234	Transcript	intron_variant	-/1680
ENST00000244314	Transcript	synonymous_variant	1156/1662

VEP annotated somatic variants

ENST00000369304	Transcript	intron_variant	-/5269
ENST00000369304	Transcript	intron_variant	-/5269
ENST00000397033	Transcript	intron_variant	-/4189
ENST00000264741	Transcript	intron_variant	-/7889
ENST00000266041	Transcript	intron_variant	-/3336
ENST00000266041	Transcript	synonymous_variant	487/3336
ENST00000266041	Transcript	intron_variant	-/3336
ENST00000373298	Transcript	intron_variant	-/1641
ENST00000429204	Transcript	intron_variant	-/6150
ENST00000381340	Transcript	intron_variant	-/10511
ENST00000381340	Transcript	intron_variant	-/10511
ENST00000374316	Transcript	3_prime_UTR_variant,intron_v	-/9870
ENST00000278071	Transcript	synonymous_variant	1182/4362
ENST00000381318	Transcript	intron_variant	-/17015
ENST00000381318	Transcript	intron_variant	-/17015
ENST00000226319	Transcript	intron_variant	-/5771
ENST00000218343	Transcript	intron_variant	-/4931
ENST00000298622	Transcript	intron_variant	-/6626
ENST00000341776	Transcript	intron_variant	-/5755
ENST00000341776	Transcript	intron_variant	-/5755
ENST00000341776	Transcript	synonymous_variant	1450/5755
ENST00000458427	Transcript	3_prime_UTR_variant	2279-2280/3570
ENST00000382303	Transcript	3_prime_UTR_variant	4765/5581
ENST00000371153	Transcript	intron_variant	-/4665
ENST00000371153	Transcript	synonymous_variant	1957/4665
ENST00000371153	Transcript	synonymous_variant	3160/4665
ENST00000367411	Transcript	synonymous_variant	493/1894
ENST00000221444	Transcript	missense_variant	922/4372
ENST00000490337	Transcript	intron_variant	-/3122
ENST00000399881	Transcript	intron_variant	-/3695
ENST00000476647	Transcript	intron_variant,non_coding_transcrip	-/5108
ENST00000228495	Transcript	intron_variant	-/4163
ENST00000405872	Transcript	5_prime_UTR_variant	348/2115
ENST00000314358	Transcript	intron_variant	-/6813
ENST00000372396	Transcript	intron_variant	-/4474
ENST00000159111	Transcript	intron_variant	-/5593
ENST00000317961	Transcript	intron_variant	-/5472
ENST00000377967	Transcript	missense_variant	2218/5438
ENST00000397560	Transcript	intron_variant	-/9272
ENST00000397560	Transcript	synonymous_variant	1710/9272
ENST00000397560	Transcript	missense_variant	2028/9272
ENST00000251993	Transcript	synonymous_variant	178/2723
ENST00000264501	Transcript	intron_variant	-/15896
ENST00000251691	Transcript	missense_variant	2231/14877
ENST00000297591	Transcript	intron_variant	-/6528
ENST00000392413	Transcript	synonymous_variant	3702/4402
ENST00000368847	Transcript	intron_variant	-/5958
ENST00000367350	Transcript	intron_variant	-/7274
ENST00000247986	Transcript	synonymous_variant	581/3969
ENST00000389916	Transcript	intron_variant	-/3643
ENST00000498729	Transcript	intron_variant	-/9162
ENST00000320785	Transcript	intron_variant	-/7919
ENST00000260753	Transcript	intron_variant	-/6306
ENST00000361580	Transcript	intron_variant	-/2957
ENST00000379562	Transcript	intron_variant	-/6348

VEP annotated somatic variants

ENST00000285407	Transcript	synonymous_variant	949/3097
ENST00000514860	Transcript	splice_region_variant,synonymous_variant	289/2442
ENST00000273963	Transcript	intron_variant	-/5621
ENST00000356986	Transcript	intron_variant	-/1206
ENST00000262189	Transcript	intron_variant	-/16862
ENST00000304613	Transcript	intron_variant	-/6793
ENST00000333479	Transcript	splice_region_variant,intron_variant	-/6975
ENST00000327442	Transcript	synonymous_variant	976/1725
ENST00000290158	Transcript	intron_variant	-/6139
ENST00000327813	Transcript	intron_variant	-/2719
ENST00000269576	Transcript	intron_variant	-/2124
ENST00000225899	Transcript	intron_variant	-/1750
ENST00000328119	Transcript	3_prime_UTR_variant	1471/1644
ENST00000397911	Transcript	3_prime_UTR_variant	932/1255
ENST00000397907	Transcript	3_prime_UTR_variant	372/410
ENST00000391618	Transcript	synonymous_variant	375/447
ENST00000216237	Transcript	intron_variant	-/3296
ENST00000421865	Transcript	intron_variant	-/9640
ENST00000421865	Transcript	intron_variant	-/9640
ENST00000230538	Transcript	intron_variant	-/6547
ENST00000230538	Transcript	intron_variant	-/6547
ENST00000258341	Transcript	intron_variant	-/7889
ENST00000258341	Transcript	intron_variant	-/7889
ENST00000258341	Transcript	intron_variant	-/7889
ENST00000264144	Transcript	5_prime_UTR_variant	60/5147
ENST00000543571	Transcript	synonymous_variant	1994/7517
ENST00000333881	Transcript	5_prime_UTR_variant	25/425
ENST00000371688	Transcript	intron_variant	-/867
ENST00000344642	Transcript	intron_variant	-/4012
ENST00000308330	Transcript	intron_variant	-/4764
ENST00000222725	Transcript	intron_variant	-/2377
ENST00000291759	Transcript	intron_variant	-/1944
ENST00000336180	Transcript	intron_variant	-/3219
ENST00000585527	Transcript	missense_variant	1525/2241
ENST00000267102	Transcript	intron_variant	-/2349
ENST00000465261	Transcript	intron_variant	-/5580
ENST00000231368	Transcript	intron_variant	-/12752
ENST00000398246	Transcript	intron_variant	-/3594
ENST00000371628	Transcript	synonymous_variant	73/2550
ENST00000371628	Transcript	intron_variant	-/2550
ENST00000261921	Transcript	intron_variant	-/2351
ENST00000312675	Transcript	intron_variant	-/18278
ENST00000354454	Transcript	intron_variant	-/2504
ENST00000389484	Transcript	intron_variant	-/16535
ENST00000294304	Transcript	intron_variant	-/5159
ENST00000402859	Transcript	missense_variant	1086/1661
ENST00000402859	Transcript	intron_variant	-/1661
ENST00000500728	Transcript	intron_variant	-/7819
ENST00000298288	Transcript	intron_variant	-/1745
ENST00000374160	Transcript	missense_variant	97/1617
ENST00000360375	Transcript	3_prime_UTR_variant	3300/3813
ENST00000393217	Transcript	intron_variant	-/5394
ENST00000265245	Transcript	missense_variant	590/3572
ENST00000544216	Transcript	splice_region_variant,splice_region_variant	790/3596
ENST00000502781	Transcript	3_prime_UTR_variant	1045/1352

VEP annotated somatic variants

ENST00000397728	Transcript	intron_variant	-/4936
ENST00000389194	Transcript	intron_variant	-/7749
ENST00000336930	Transcript	intron_variant	-/3553
ENST00000330743	Transcript	intron_variant	-/2022
ENST00000368908	Transcript	5_prime_UTR_variant	603/2479
ENST00000370220	Transcript	downstream_gene_variant	-/5741
ENST00000370220	Transcript	5_prime_UTR_variant	3024/5741
ENST00000406869	Transcript	intron_variant	-/2991
ENST00000296509	Transcript	intron_variant	-/5468
ENST00000356661	Transcript	intron_variant	-/1708
ENST00000393900	Transcript	synonymous_variant	1242/1853
ENST00000378982	Transcript	5_prime_UTR_variant	161/2237
ENST00000285879	Transcript	intron_variant	-/4270
ENST00000247452	Transcript	synonymous_variant	1257/1991
ENST00000375068	Transcript	intron_variant	-/2189
ENST00000317446	Transcript	intron_variant	-/3658
ENST00000432680	Transcript	synonymous_variant	2368/3224
ENST00000368468	Transcript	intron_variant	-/5014
ENST00000261483	Transcript	synonymous_variant	2297/4667
ENST00000285599	Transcript	missense_variant	764/5143
ENST00000324096	Transcript	missense_variant	2745/3419
ENST00000338883	Transcript	missense_variant	574/4635
ENST00000361357	Transcript	intron_variant	-/4818
ENST00000591517	Transcript	synonymous_variant	974/2700
ENST00000347699	Transcript	intron_variant	-/3792
ENST00000446044	Transcript	intron_variant	-/2988
ENST00000251472	Transcript	intron_variant	-/4833
ENST00000251472	Transcript	region_variant,synonymous	1050/4833
ENST00000403625	Transcript	5_prime_UTR_variant	260/10711
ENST00000537548	Transcript	missense_variant	735/2282
ENST00000265594	Transcript	intron_variant	-/2545
ENST00000397708	Transcript	intron_variant	-/6333
ENST00000434837	Transcript	synonymous_variant	1608/8898
ENST00000369393	Transcript	intron_variant	-/18413
ENST00000369393	Transcript	intron_variant	-/18413
ENST00000453960	Transcript	synonymous_variant	1033/1685
ENST00000324817	Transcript	intron_variant	-/7984
ENST00000491289	Transcript	5_prime_UTR_variant	579/4380
ENST00000312865	Transcript	intron_variant	-/2332
ENST00000315588	Transcript	missense_variant	468/3653
ENST00000162023	Transcript	intron_variant	-/1623
ENST00000356575	Transcript	intron_variant	-/5455
ENST00000269202	Transcript	intron_variant	-/2312
ENST00000295408	Transcript	3_prime_UTR_variant	3339-3340/3954
ENST00000298717	Transcript	intron_variant	-/2015
ENST00000375258	Transcript	synonymous_variant	882/8203
ENST00000398558	Transcript	intron_variant	-/2104
ENST00000428789	Transcript	synonymous_variant	1807/4053
ENST00000428789	Transcript	intron_variant	-/4053
ENST00000428789	Transcript	synonymous_variant	1459/4053
ENST00000306010	Transcript	missense_variant	375/1759
ENST00000441493	Transcript	intron_variant	-/9445
ENST00000441493	Transcript	intron_variant	-/9445
ENST00000441493	Transcript	intron_variant	-/9445
ENST00000317552	Transcript	intron_variant	-/6463



VEP annotated somatic variants

ENST00000355280	Transcript	intron_variant	-/4961
ENST00000355280	Transcript	intron_variant	-/4961
ENST00000228506	Transcript	intron_variant	-/6626
ENST00000366624	Transcript	intron_variant	-/5809
ENST00000252674	Transcript	intron_variant	-/1931
ENST00000368808	Transcript	intron_variant	-/1919
ENST00000252971	Transcript	intron_variant	-/2174
ENST00000357066	Transcript	missense_variant	840/3391
ENST00000355610	Transcript	intron_variant	-/3834
ENST00000355610	Transcript	missense_variant	1693/3834
ENST00000379535	Transcript	intron_variant	-/2274
ENST00000278949	Transcript	intron_variant	-/3964
ENST00000323929	Transcript	intron_variant	-/2746
ENST00000421030	Transcript	missense_variant	1201/4329
ENST00000421030	Transcript	missense_variant	2138/4329
ENST00000421030	Transcript	missense_variant	1811/4329
ENST00000290208	Transcript	intron_variant	-/2013
ENST00000371443	Transcript	intron_variant	-/1262
ENST00000342071	Transcript	intron_variant	-/894
ENST00000053468	Transcript	intron_variant	-/2110
ENST00000423302	Transcript	3_prime_UTR_variant,intron_v	-/6126
ENST00000233146	Transcript	intron_variant	-/3307
ENST00000261507	Transcript	intron_variant	-/2269
ENST00000361445	Transcript	synonymous_variant	6986/8677
ENST00000366577	Transcript	synonymous_variant	3538/10529
ENST00000366577	Transcript	intron_variant	-/10529
ENST00000366577	Transcript	intron_variant	-/10529
ENST00000366577	Transcript	intron_variant	-/10529
ENST00000457717	Transcript	intron_variant	-/4092
ENST00000397910	Transcript	3_prime_UTR_variant,intron_v	-/43816
ENST00000397910	Transcript	synonymous_variant	7803/43816
ENST00000454784	Transcript	5_prime_UTR_variant	273/19628
ENST00000454784	Transcript	intron_variant	-/19628
ENST00000441003	Transcript	synonymous_variant	7689/8637
ENST00000301012	Transcript	intron_variant	-/1823
ENST00000217939	Transcript	synonymous_variant	7508/9793
ENST00000409745	Transcript	synonymous_variant	478/2452
ENST00000545968	Transcript	intron_variant	-/4217
ENST00000396324	Transcript	missense_variant	3809/6847
ENST00000273353	Transcript	intron_variant	-/7074
ENST00000355349	Transcript	synonymous_variant	1258/6087
ENST00000355349	Transcript	intron_variant	-/6087
ENST00000355349	Transcript	intron_variant	-/6087
ENST00000216181	Transcript	intron_variant	-/7501
ENST00000360304	Transcript	synonymous_variant	3840/7834
ENST00000205890	Transcript	intron_variant	-/11863
ENST00000335473	Transcript	intron_variant	-/8565
ENST00000431794	Transcript	intron_variant	-/4054
ENST00000338257	Transcript	intron_variant	-/4303
ENST00000399231	Transcript	intron_variant	-/12225
ENST00000595618	Transcript	intron_variant	-/7623
ENST00000241651	Transcript	5_prime_UTR_variant	64/1528
ENST00000358913	Transcript	synonymous_variant	1622/6013
ENST00000278836	Transcript	intron_variant	-/5927
ENST00000472487	Transcript	intron_variant	-/7785

VEP annotated somatic variants

ENST00000361671	Transcript	intron_variant	-/2649
ENST00000371753	Transcript	synonymous_variant	971/6802
ENST00000312251	Transcript	upstream_gene_variant	-/2202
ENST00000253719	Transcript	missense_variant	1137/1548
ENST00000357814	Transcript	intron_variant	-/1875
ENST00000281513	Transcript	intron_variant	-/7281
ENST00000422280	Transcript	missense_variant	3227/4973
ENST00000422280	Transcript	intron_variant	-/4973
ENST00000422280	Transcript	intron_variant	-/4973
ENST00000422280	Transcript	intron_variant	-/4973
ENST00000252575	Transcript	missense_variant	373/6387
ENST00000315579	Transcript	intron_variant	-/5548
ENST00000534548	Transcript	intron_variant	-/5061
ENST00000240423	Transcript	intron_variant	-/2763
ENST00000374796	Transcript	intron_variant	-/9311
ENST00000268712	Transcript	intron_variant	-/10720
ENST00000367993	Transcript	synonymous_variant	1738/2042
ENST00000397345	Transcript	intron_variant	-/26202
ENST00000397345	Transcript	intron_variant	-/26202
ENST00000397345	Transcript	intron_variant	-/26202
ENST00000382882	Transcript	synonymous_variant	2180/3343
ENST00000366988	Transcript	synonymous_variant	567/942
ENST00000366988	Transcript	intron_variant	-/942
ENST00000334785	Transcript	missense_variant	1179/2607
ENST00000226574	Transcript	intron_variant	-/4085
ENST00000369966	Transcript	intron_variant	-/3101
ENST00000326172	Transcript	intron_variant	-/3923
ENST00000340650	Transcript	synonymous_variant	326/2134
ENST00000427025	Transcript	intron_variant	-/7500
ENST00000264187	Transcript	intron_variant	-/5864
ENST00000382041	Transcript	intron_variant	-/6496
ENST00000374399	Transcript	intron_variant	-/1711
ENST00000311946	Transcript	missense_variant	753/3274
ENST00000282516	Transcript	intron_variant	-/10435
ENST00000216121	Transcript	intron_variant	-/2237
ENST00000345716	Transcript	intron_variant	-/5238
ENST00000258829	Transcript	missense_variant	403/1261
ENST00000358741	Transcript	intron_variant	-/3046
ENST00000404025	Transcript	intron_variant	-/3581
ENST00000390649	Transcript	intron_variant	-/3888
ENST00000390649	Transcript	region_variant,synonymous	2955/3888
ENST00000390649	Transcript	intron_variant	-/3888
ENST00000332836	Transcript	intron_variant	-/3484
ENST00000330579	Transcript	intron_variant	-/1632
ENST00000297990	Transcript	intron_variant	-/4741
ENST00000416614	Transcript	intron_variant	-/3538
ENST00000329276	Transcript	3_prime_UTR_variant	2343/2400
ENST00000361897	Transcript	intron_variant	-/4931
ENST00000297494	Transcript	missense_variant	1251/4388
ENST00000297494	Transcript	intron_variant	-/4388
ENST00000277541	Transcript	intron_variant	-/9371
ENST00000277541	Transcript	intron_variant	-/9371
ENST00000289547	Transcript	synonymous_variant	3944/5048
ENST00000277942	Transcript	missense_variant	433/8921
ENST00000359791	Transcript	missense_variant	851/1410

VEP annotated somatic variants

ENST00000265634	Transcript	intron_variant	-/2700
ENST00000312521	Transcript	5_prime_UTR_variant	233/5258
ENST00000367980	Transcript	upstream_gene_variant	-/1408
ENST00000354366	Transcript	intron_variant	-/5828
ENST00000439151	Transcript	synonymous_variant	3750/12892
ENST00000264670	Transcript	intron_variant	-/3303
ENST00000422318	Transcript	intron_variant	-/1795
ENST00000301411	Transcript	downstream_gene_variant	-/999
ENST00000355451	Transcript	missense_variant	983/8256
ENST00000379161	Transcript	intron_variant	-/3492
ENST00000413272	Transcript	synonymous_variant	560/3887
ENST00000229179	Transcript	intron_variant	-/3653
ENST00000359428	Transcript	intron_variant	-/7600
ENST00000340413	Transcript	5_prime_UTR_variant	34/3874
ENST00000347635	Transcript	3_prime_UTR_variant	1929-1934/5233
ENST00000264883	Transcript	intron_variant	-/2367
ENST00000264883	Transcript	intron_variant	-/2367
ENST00000573584	Transcript	intron_variant	-/2916
ENST00000573584	Transcript	intron_variant	-/2916
ENST00000395065	Transcript	intron_variant	-/1938
ENST00000537026	Transcript	intron_variant	-/1613
ENST00000537026	Transcript	intron_variant	-/1613
ENST00000537026	Transcript	intron_variant	-/1613
ENST00000336868	Transcript	intron_variant	-/3036
ENST00000479950	Transcript	intron_variant	-/3330
ENST00000404537	Transcript	synonymous_variant	1941/5841
ENST00000329197	Transcript	3_prime_UTR_variant	1207/1652
ENST00000323060	Transcript	intron_variant	-/2250
ENST00000316368	Transcript	3_prime_UTR_variant	1057/1071
ENST00000323404	Transcript	missense_variant	374/948
ENST00000314721	Transcript	synonymous_variant	596/1081
ENST00000319760	Transcript	missense_variant	96/1071
ENST00000314634	Transcript	downstream_gene_variant	-/933
ENST00000380224	Transcript	synonymous_variant	707/983
ENST00000317078	Transcript	synonymous_variant	570/963
ENST00000304418	Transcript	missense_variant	933/1197
ENST00000356526	Transcript	synonymous_variant	759/942
ENST00000301532	Transcript	synonymous_variant	630/945
ENST00000313033	Transcript	5_prime_UTR_variant	28/1118
ENST00000313733	Transcript	intron_variant	-/3970
ENST00000361711	Transcript	3_prime_UTR_variant,intron_variant	-/2230
ENST00000361711	Transcript	synonymous_variant	1327/2230
ENST00000274276	Transcript	intron_variant	-/5539
ENST00000307050	Transcript	intron_variant	-/3042
ENST00000285848	Transcript	inframe_insertion	1434-1435/1728
ENST00000374519	Transcript	missense_variant	713/1639
ENST00000331483	Transcript	synonymous_variant	937/2603
ENST00000372858	Transcript	missense_variant	1135/2753
ENST00000320580	Transcript	intron_variant	-/4392
ENST00000289619	Transcript	intron_variant	-/741
ENST00000338448	Transcript	intron_variant	-/2725
ENST00000307534	Transcript	intron_variant	-/3367
ENST00000307534	Transcript	synonymous_variant	768/3367
ENST00000378466	Transcript	missense_variant	1653/2649
ENST00000238714	Transcript	intron_variant	-/4263

VEP annotated somatic variants

ENST00000371279	Transcript	missense_variant	167/2347
ENST00000334956	Transcript	synonymous_variant	1069/4458
ENST00000406477	Transcript	3_prime_UTR_variant,intron_variant	-/1569
ENST00000429538	Transcript	intron_variant	-/4084
ENST00000527246	Transcript	missense_variant	313/2499
ENST00000361849	Transcript	intron_variant	-/6957
ENST00000544246	Transcript	missense_variant	4054/6226
ENST00000333891	Transcript	intron_variant	-/20329
ENST00000367384	Transcript	missense_variant	817/1938
ENST00000359568	Transcript	intron_variant	-/10560
ENST00000311180	Transcript	missense_variant	170/8773
ENST00000435564	Transcript	upstream_gene_variant	-/4885
ENST00000334456	Transcript	synonymous_variant	2451/4315
ENST00000371447	Transcript	synonymous_variant	390/3307
ENST00000257290	Transcript	intron_variant	-/6576
ENST00000261799	Transcript	synonymous_variant	3722/5717
ENST00000261799	Transcript	3_prime_UTR_variant,intron_variant	-/5717
ENST00000376215	Transcript	intron_variant	-/1626
ENST00000396410	Transcript	intron_variant	-/3884
ENST00000396410	Transcript	downstream_gene_variant	-/3884
ENST00000370215	Transcript	downstream_gene_variant	-/2032
ENST00000560626	Transcript	missense_variant	5101/11715
ENST00000338302	Transcript	intron_variant	-/4970
ENST00000338302	Transcript	synonymous_variant	234/4970
ENST00000338302	Transcript	synonymous_variant	1545/4970
ENST00000244137	Transcript	missense_variant	1337/1910
ENST00000244137	Transcript	3_prime_UTR_variant	1568/1910
ENST00000381125	Transcript	intron_variant	-/2645
ENST00000381125	Transcript	intron_variant	-/2645
ENST00000354764	Transcript	intron_variant	-/11114
ENST00000373316	Transcript	intron_variant	-/4887
ENST00000340880	Transcript	missense_variant	1662/2230
ENST00000290722	Transcript	5_prime_UTR_variant	16/1173
ENST00000359246	Transcript	3_prime_UTR_variant,intron_variant	-/5565
ENST00000275034	Transcript	intron_variant	-/10460
ENST00000373542	Transcript	intron_variant	-/6020
ENST00000361417	Transcript	intron_variant	-/5753
ENST00000416188	Transcript	synonymous_variant	474/5227
ENST00000369738	Transcript	3_prime_UTR_variant	950/2627
ENST00000370812	Transcript	intron_variant	-/4596
ENST00000357637	Transcript	synonymous_variant	2426/5501
ENST00000592983	Transcript	missense_variant	956/2333
ENST00000447110	Transcript	intron_variant	-/4488
ENST00000264380	Transcript	intron_variant	-/9901
ENST00000360612	Transcript	synonymous_variant	567/2369
ENST00000332271	Transcript	intron_variant	-/3504
ENST00000361478	Transcript	synonymous_variant	1548/2755
ENST00000529079	Transcript	5_prime_UTR_variant,non_coding_exon_variant	161/574
ENST00000371117	Transcript	intron_variant	-/16282
ENST00000070846	Transcript	intron_variant	-/4241
ENST00000274793	Transcript	intron_variant	-/1882
ENST00000220809	Transcript	intron_variant	-/2706
ENST00000327757	Transcript	intron_variant	-/5107
ENST00000371380	Transcript	intron_variant	-/12024
ENST00000371380	Transcript	intron_variant	-/12024

VEP annotated somatic variants

ENST00000371380	Transcript	intron_variant	-/12024
ENST00000371380	Transcript	missense_variant	5565/12024
ENST00000359376	Transcript	intron_variant	-/4308
ENST00000449969	Transcript	intron_variant	-/5450
ENST00000449969	Transcript	intron_variant	-/5450
ENST00000322810	Transcript	missense_variant	4546/15249
ENST00000322810	Transcript	synonymous_variant	959/15249
ENST00000322810	Transcript	3_prime_UTR_variant	14235/15249
ENST00000322810	Transcript	synonymous_variant	8834/15249
ENST00000322810	Transcript	synonymous_variant	14042/15249
ENST00000322810	Transcript	synonymous_variant	11708/15249
ENST00000537245	Transcript	intron_variant	-/3381
ENST00000329153	Transcript	intron_variant	-/6604
ENST00000329153	Transcript	3_prime_UTR_variant,intron_v	-/6604
ENST00000329153	Transcript	intron_variant	-/6604
ENST00000379410	Transcript	intron_variant	-/2404
ENST00000334770	Transcript	intron_variant	-/2106
ENST00000315392	Transcript	intron_variant	-/6252
ENST00000449103	Transcript	intron_variant	-/6383
ENST00000369239	Transcript	intron_variant	-/5112
ENST00000394571	Transcript	missense_variant,splice_region_	1469/2478
ENST00000216180	Transcript	intron_variant	-/2805
ENST00000414982	Transcript	synonymous_variant	2316/4522
ENST00000548729	Transcript	intron_variant	-/5436
ENST00000301788	Transcript	intron_variant	-/827
ENST00000377603	Transcript	intron_variant	-/2416
ENST00000377603	Transcript	intron_variant	-/2416
ENST00000379747	Transcript	intron_variant	-/3373
ENST00000465342	Transcript	missense_variant	1702/5357
ENST00000287820	Transcript	missense_variant	155/1850
ENST00000287820	Transcript	synonymous_variant	1552/1850
ENST00000412327	Transcript	intron_variant	-/2709
ENST00000308249	Transcript	inframe_insertion	228-229/2988
ENST00000367999	Transcript	intron_variant	-/1740
ENST00000330261	Transcript	intron_variant	-/782
ENST00000455566	Transcript	3_prime_UTR_variant	1284/5133
ENST00000264977	Transcript	intron_variant	-/6795
ENST00000218224	Transcript	3_prime_UTR_variant,intron_v	-/1110
ENST00000264808	Transcript	intron_variant	-/5330
ENST00000339711	Transcript	intron_variant	-/4095
ENST00000379341	Transcript	intron_variant	-/1005
ENST00000379341	Transcript	intron_variant	-/1005
ENST00000379341	Transcript	intron_variant	-/1005
ENST00000369110	Transcript	intron_variant	-/2905
ENST00000288368	Transcript	intron_variant	-/10750
ENST00000311862	Transcript	intron_variant	-/1424
ENST00000314970	Transcript	5_prime_UTR_variant	387/2289
ENST00000394729	Transcript	intron_variant	-/2810
ENST00000394729	Transcript	intron_variant	-/2810
ENST00000378567	Transcript	intron_variant	-/2326
ENST00000324366	Transcript	intron_variant	-/2531
ENST00000419421	Transcript	missense_variant	650/1392
ENST00000403581	Transcript	intron_variant	-/2279
ENST00000352766	Transcript	intron_variant	-/2043
ENST00000268281	Transcript	intron_variant	-/2840

VEP annotated somatic variants

ENST00000376718	Transcript	intron_variant	-/12584
ENST00000406487	Transcript	intron_variant	-/1538
ENST00000406070	Transcript	intron_variant	-/2025
ENST00000270077	Transcript	intron_variant	-/1705
ENST00000356126	Transcript	3_prime_UTR_variant,intron_v	-/4406
ENST00000331573	Transcript	intron_variant	-/2154
ENST00000317615	Transcript	5_prime_UTR_variant	643/1686
ENST00000407693	Transcript	intron_variant	-/1407
ENST00000254667	Transcript	intron_variant	-/5331
ENST00000359947	Transcript	intron_variant	-/7727
ENST00000474889	Transcript	intron_variant	-/9021
ENST00000368213	Transcript	intron_variant	-/5816
ENST00000389418	Transcript	synonymous_variant	2425/4706
ENST00000293922	Transcript	intron_variant	-/1422
ENST00000426105	Transcript	intron_variant	-/4043
ENST00000426105	Transcript	intron_variant	-/4043
ENST00000426105	Transcript	intron_variant	-/4043
ENST00000426105	Transcript	intron_variant	-/4043
ENST00000302000	Transcript	intron_variant	-/8488
ENST00000240651	Transcript	5_prime_UTR_variant	11/3169
ENST00000325874	Transcript	intron_variant	-/8629
ENST00000264601	Transcript	missense_variant	686/1966
ENST00000243662	Transcript	5_prime_UTR_variant	73/1465
ENST00000276066	Transcript	intron_variant	-/1071
ENST00000262477	Transcript	intron_variant	-/5387
ENST00000399409	Transcript	synonymous_variant	1906/2265
ENST00000306897	Transcript	intron_variant	-/1090
ENST00000487270	Transcript	intron_variant	-/2596
ENST00000399583	Transcript	synonymous_variant	2363/3689
ENST00000251849	Transcript	intron_variant	-/3300
ENST00000515799	Transcript	intron_variant	-/3486
ENST00000290101	Transcript	intron_variant	-/3301
ENST00000449771	Transcript	intron_variant	-/3370
ENST00000298854	Transcript	intron_variant	-/1671
ENST00000357043	Transcript	missense_variant	119/1864
ENST00000377604	Transcript	synonymous_variant	3121/3747
ENST00000267229	Transcript	intron_variant	-/3624
ENST00000265271	Transcript	intron_variant	-/6451
ENST00000339877	Transcript	intron_variant	-/1341
ENST00000377966	Transcript	synonymous_variant	2126/4888
ENST00000221452	Transcript	intron_variant	-/2294
ENST00000258062	Transcript	intron_variant	-/3161
ENST00000295755	Transcript	5_prime_UTR_variant,frameshift_vari	238-239/676
ENST00000354373	Transcript	5_prime_UTR_variant	195/1496
ENST00000296292	Transcript	synonymous_variant	1685/5108
ENST00000296292	Transcript	intron_variant	-/5108
ENST00000334133	Transcript	intron_variant	-/2982
ENST00000393423	Transcript	5_prime_UTR_variant	47/2278
ENST00000366565	Transcript	3_prime_UTR_variant,intron_v	-/2494
ENST00000538017	Transcript	5_prime_UTR_variant	125/1394
ENST00000332512	Transcript	synonymous_variant	2396/3889
ENST00000283632	Transcript	intron_variant	-/6301
ENST00000283632	Transcript	5_prime_UTR_variant	488/6301
ENST00000221486	Transcript	intron_variant	-/1165
ENST00000367559	Transcript	synonymous_variant	377/4238

VEP annotated somatic variants

ENST00000587250	Transcript	3_prime_UTR_variant	866/1339
ENST00000347063	Transcript	intron_variant	-/1604
ENST00000373456	Transcript	intron_variant	-/2560
ENST00000399398	Transcript	3_prime_UTR_variant	1009/3062
ENST00000464233	Transcript	intron_variant	-/6742
ENST00000464233	Transcript	intron_variant	-/6742
ENST00000315872	Transcript	missense_variant	1741/8292
ENST00000371079	Transcript	intron_variant	-/5832
ENST00000368508	Transcript	intron_variant	-/7435
ENST00000434291	Transcript	intron_variant	-/1818
ENST00000422931	Transcript	downstream_gene_variant	-/865
ENST00000472454	Transcript	downstream_gene_variant	-/1615
ENST00000518559	Transcript	variant,non_coding_transcript	-/4427
ENST00000428747	Transcript	upstream_gene_variant	-/3105
ENST00000005386	Transcript	intron_variant	-/2332
ENST00000331302	Transcript	intron_variant	-/2606
ENST00000222247	Transcript	intron_variant	-/665
ENST00000422514	Transcript	5_prime_UTR_variant	605-606/1562
ENST00000422514	Transcript	5_prime_UTR_variant	606-607/1562
ENST00000216146	Transcript	synonymous_variant	285/1442
ENST00000316084	Transcript	synonymous_variant	597/1526
ENST00000503859	Transcript	intron_variant	-/4137
ENST00000306801	Transcript	intron_variant	-/6408
ENST00000306801	Transcript	synonymous_variant	2888/6408
ENST00000340648	Transcript	intron_variant	-/5088
ENST00000340648	Transcript	synonymous_variant	720/5088
ENST00000258955	Transcript	synonymous_variant	667/2528
ENST00000377921	Transcript	intron_variant	-/3919
ENST00000377819	Transcript	missense_variant	1566/4937
ENST00000319449	Transcript	intron_variant	-/2646
ENST00000319449	Transcript	synonymous_variant	2076/2646
ENST00000388768	Transcript	upstream_gene_variant	-/4512
ENST00000481739	Transcript	intron_variant	-/1846
ENST00000359596	Transcript	synonymous_variant	3456/15117
ENST00000359596	Transcript	intron_variant	-/15117
ENST00000359596	Transcript	synonymous_variant	6384/15117
ENST00000359596	Transcript	intron_variant	-/15117
ENST00000366574	Transcript	intron_variant	-/16562
ENST00000366574	Transcript	intron_variant	-/16562
ENST00000389232	Transcript	intron_variant	-/15559
ENST00000382533	Transcript	intron_variant	-/2298
ENST00000371872	Transcript	intron_variant	-/3344
ENST00000246868	Transcript	intron_variant	-/1631
ENST00000380817	Transcript	synonymous_variant	5743/8008
ENST00000256190	Transcript	intron_variant	-/7439
ENST00000360565	Transcript	intron_variant	-/4306
ENST00000302631	Transcript	synonymous_variant	486/1446
ENST00000266214	Transcript	intron_variant	-/3278
ENST00000349847	Transcript	intron_variant	-/2386
ENST00000297029	Transcript	missense_variant	283/3137
ENST00000281142	Transcript	intron_variant	-/3055
ENST00000281142	Transcript	intron_variant	-/3055
ENST00000369020	Transcript	downstream_gene_variant	-/1491
ENST00000283254	Transcript	intron_variant	-/9091
ENST00000409672	Transcript	missense_variant	3795/9768

VEP annotated somatic variants

ENST00000409672	Transcript	intron_variant	-/9768
ENST00000272091	Transcript	upstream_gene_variant	-/3975
ENST00000404826	Transcript	intron_variant	-/10397
ENST00000350697	Transcript	intron_variant	-/1425
ENST00000402034	Transcript	missense_variant	58/3392
ENST00000308284	Transcript	intron_variant	-/3985
ENST00000336714	Transcript	missense_variant	1899/3411
ENST00000280551	Transcript	intron_variant	-/4030
ENST00000370345	Transcript	intron_variant	-/4612
ENST00000370345	Transcript	intron_variant	-/4612
ENST00000370345	Transcript	missense_variant	364/4612
ENST00000370345	Transcript	intron_variant	-/4612
ENST00000375807	Transcript	intron_variant	-/3454
ENST00000269389	Transcript	missense_variant	1081/2235
ENST00000333360	Transcript	intron_variant	-/3857
ENST00000263686	Transcript	intron_variant	-/3142
ENST00000265362	Transcript	intron_variant	-/8225
ENST00000265362	Transcript	intron_variant	-/8225
ENST00000002829	Transcript	intron_variant	-/3802
ENST00000396426	Transcript	intron_variant	-/2586
ENST00000467132	Transcript	intron_variant	-/2660
ENST00000357949	Transcript	intron_variant	-/2114
ENST00000267197	Transcript	intron_variant	-/8195
ENST00000267197	Transcript	intron_variant	-/8195
ENST00000402198	Transcript	intron_variant	-/6827
ENST00000248933	Transcript	synonymous_variant	206/3248
ENST00000302516	Transcript	intron_variant	-/6969
ENST00000367569	Transcript	5_prime_UTR_variant	70/737
ENST00000373202	Transcript	intron_variant	-/5745
ENST00000268989	Transcript	intron_variant	-/4863
ENST00000268989	Transcript	intron_variant	-/4863
ENST00000248929	Transcript	intron_variant	-/2969
ENST00000482504	Transcript	downstream_gene_varian	-/1199
ENST00000355946	Transcript	synonymous_variant	1742/11245
ENST00000293441	Transcript	intron_variant	-/6643
ENST00000293441	Transcript	3_prime_UTR_variant,intron_v	-/6643
ENST00000297261	Transcript	intron_variant	-/4454
ENST00000380913	Transcript	missense_variant	3046/7447
ENST00000291707	Transcript	intron_variant	-/2121
ENST00000270162	Transcript	intron_variant	-/4712
ENST00000290399	Transcript	intron_variant	-/4442
ENST00000366630	Transcript	intron_variant	-/6690
ENST00000368043	Transcript	intron_variant	-/2689
ENST00000273861	Transcript	synonymous_variant	315/1790
ENST00000273905	Transcript	missense_variant	488/1502
ENST00000264930	Transcript	intron_variant	-/5272
ENST00000194130	Transcript	intron_variant	-/3815
ENST00000587091	Transcript	missense_variant	274/4161
ENST00000221742	Transcript	intron_variant	-/1719
ENST00000221742	Transcript	intron_variant	-/1719
ENST00000245407	Transcript	synonymous_variant	506/3237
ENST00000353963	Transcript	intron_variant	-/2303
ENST00000532405	Transcript	synonymous_variant	721/4718
ENST00000416240	Transcript	intron_variant	-/3192
ENST00000377095	Transcript	intron_variant	-/1565



VEP annotated somatic variants

ENST00000377095	Transcript	intron_variant	-/1565
ENST00000361193	Transcript	intron_variant	-/2885
ENST00000394573	Transcript	intron_variant	-/2750
ENST00000347644	Transcript	intron_variant	-/2464
ENST00000373371	Transcript	intron_variant	-/2172
ENST00000378509	Transcript	intron_variant	-/6797
ENST00000360388	Transcript	intron_variant	-/4852
ENST00000366618	Transcript	intron_variant	-/2891
ENST00000308074	Transcript	intron_variant	-/2696
ENST00000420502	Transcript	intron_variant,non_coding_transcript	-/2470
ENST00000570101	Transcript	intron_variant	-/4549
ENST00000024061	Transcript	synonymous_variant	1964/3546
ENST00000485713	Transcript	intron_variant	-/4925
ENST00000222248	Transcript	intron_variant	-/3576
ENST00000371900	Transcript	intron_variant	-/4521
ENST00000335875	Transcript	intron_variant	-/2938
ENST00000401766	Transcript	intron_variant	-/6543
ENST00000360584	Transcript	downstream_gene_variant	-/2330
ENST00000316902	Transcript	intron_variant	-/4216
ENST00000316902	Transcript	synonymous_variant	1872/4216
ENST00000328306	Transcript	synonymous_variant	170/3838
ENST00000310926	Transcript	intron_variant	-/4223
ENST00000371122	Transcript	intron_variant	-/4099
ENST00000283131	Transcript	intron_variant	-/7923
ENST00000357450	Transcript	intron_variant	-/4201
ENST00000361956	Transcript	synonymous_variant	389/2040
ENST00000358743	Transcript	intron_variant	-/3198
ENST00000388985	Transcript	3_prime_UTR_variant,intron_variant	-/1287
ENST00000371247	Transcript	intron_variant	-/7354
ENST00000507866	Transcript	3_prime_UTR_variant,intron_variant	-/6152
ENST00000336338	Transcript	synonymous_variant	633/6924
ENST00000336338	Transcript	synonymous_variant	1458/6924
ENST00000370498	Transcript	synonymous_variant	994/1377
ENST00000377470	Transcript	intron_variant	-/1954
ENST00000312358	Transcript	intron_variant	-/10782
ENST00000312358	Transcript	missense_variant	7298/10782
ENST00000301244	Transcript	missense_variant	1033/1802
ENST00000373109	Transcript	synonymous_variant	457/5445
ENST00000320955	Transcript	intron_variant	-/11722
ENST00000320955	Transcript	intron_variant	-/11722
ENST00000262518	Transcript	missense_variant	4988/10474
ENST00000378016	Transcript	3_prime_UTR_variant,non_coding_transcript	12321/15583
ENST00000378016	Transcript	non_coding_transcript	-/15583
ENST00000378016	Transcript	3_prime_UTR_variant,non_coding_transcript	12765/15583
ENST00000544814	Transcript	intron_variant	-/1182
ENST00000393640	Transcript	3_prime_UTR_variant	3186/5345
ENST00000225276	Transcript	intron_variant	-/2170
ENST00000225276	Transcript	intron_variant	-/2170
ENST00000335791	Transcript	intron_variant	-/1691
ENST00000388887	Transcript	synonymous_variant	3909/8251
ENST00000394070	Transcript	intron_variant	-/6691
ENST00000265404	Transcript	synonymous_variant	463/1511
ENST00000290607	Transcript	intron_variant	-/15567
ENST00000392320	Transcript	intron_variant	-/2822
ENST00000293328	Transcript	intron_variant	-/5103

VEP annotated somatic variants

ENST00000524300	Transcript	intron_variant	-/3065
ENST00000316900	Transcript	synonymous_variant	779/2053
ENST00000392359	Transcript	5_prime_UTR_variant	39/805
ENST00000275764	Transcript	downstream_gene_variant	-/993
ENST00000447404	Transcript	intron_variant	-/6290
ENST00000369795	Transcript	intron_variant	-/3265
ENST00000249344	Transcript	intron_variant	-/5115
ENST00000321680	Transcript	intron_variant	-/3456
ENST00000075503	Transcript	missense_variant	1131/2995
ENST00000248600	Transcript	downstream_gene_variant	-/1415
ENST00000362032	Transcript	3_prime_UTR_variant	1153/4179
ENST00000332859	Transcript	intron_variant	-/1807
ENST00000326669	Transcript	missense_variant	196/683
ENST00000599117	Transcript	intron_variant	-/3902
ENST00000599117	Transcript	intron_variant	-/3902
ENST00000375472	Transcript	intron_variant	-/1195
ENST00000318950	Transcript	intron_variant	-/4882
ENST00000245934	Transcript	synonymous_variant	3626/4195
ENST00000432424	Transcript	variant,non_coding_transcript	-/3897
ENST00000358025	Transcript	synonymous_variant	629/21875
ENST00000358025	Transcript	intron_variant	-/21875
ENST00000355585	Transcript	synonymous_variant	2925/7378
ENST00000336292	Transcript	missense_variant	1817/7322
ENST00000307142	Transcript	missense_variant	657/7295
ENST00000367456	Transcript	synonymous_variant	2017/4553
ENST00000367456	Transcript	intron_variant	-/4553
ENST00000313288	Transcript	missense_variant	1647/2781
ENST00000372907	Transcript	intron_variant	-/2341
ENST00000367066	Transcript	intron_variant	-/3887
ENST00000367066	Transcript	synonymous_variant	536/3887
ENST00000335968	Transcript	intron_variant	-/3610
ENST00000335968	Transcript	intron_variant	-/3610
ENST00000287652	Transcript	missense_variant	1817/5342
ENST00000287652	Transcript	intron_variant	-/5342
ENST00000337137	Transcript	missense_variant	504/3787
ENST00000377636	Transcript	intron_variant	-/6364
ENST00000446818	Transcript	missense_variant	2416/3124
ENST00000273980	Transcript	intron_variant	-/8101
ENST00000335385	Transcript	intron_variant	-/1548
ENST00000372780	Transcript	missense_variant	422/1100
ENST00000418390	Transcript	missense_variant	1758/5154
ENST00000296702	Transcript	intron_variant	-/4654
ENST00000215838	Transcript	3_prime_UTR_variant	1860/2535
ENST00000409874	Transcript	synonymous_variant	867/4782
ENST00000422452	Transcript	intron_variant	-/12891
ENST00000518659	Transcript	intron_variant	-/8550
ENST00000603068	Transcript	intron_variant	-/2894
ENST00000409262	Transcript	intron_variant	-/10983
ENST00000240361	Transcript	intron_variant	-/4911
ENST00000258991	Transcript	intron_variant	-/5232
ENST00000380473	Transcript	splice_acceptor_variant	-/1478
ENST00000367166	Transcript	synonymous_variant	689/1424
ENST00000310125	Transcript	missense_variant	516/1680
ENST00000391759	Transcript	intron_variant	-/1205
ENST00000212355	Transcript	intron_variant	-/6416

VEP annotated somatic variants

ENST00000561129	Transcript	missense_variant	719/928
ENST00000452443	Transcript	synonymous_variant	782/2313
ENST00000366787	Transcript	intron_variant	-/5811
ENST00000342640	Transcript	intron_variant	-/1326
ENST00000423059	Transcript	synonymous_variant	1986/10663
ENST00000288014	Transcript	3_prime_UTR_variant	2720/2860
ENST00000505747	Transcript	intron_variant	-/1970
ENST00000286827	Transcript	intron_variant	-/7200
ENST00000461783	Transcript	intron_variant	-/6981
ENST00000248244	Transcript	synonymous_variant	1901/2676
ENST00000169551	Transcript	3_prime_UTR_variant	1061/1527
ENST00000423516	Transcript	intron_variant	-/2075
ENST00000423516	Transcript	intron_variant	-/2075
ENST00000292090	Transcript	5_prime_UTR_variant	79/1017
ENST00000558939	Transcript	synonymous_variant	3067/6004
ENST00000558939	Transcript	intron_variant	-/6004
ENST00000346027	Transcript	intron_variant	-/3449
ENST00000061240	Transcript	missense_variant	3519/6708
ENST00000357947	Transcript	intron_variant	-/6756
ENST00000357947	Transcript	intron_variant	-/6756
ENST00000357947	Transcript	synonymous_variant	2758/6756
ENST00000561311	Transcript	intron_variant	-/11880
ENST00000233638	Transcript	5_prime_UTR_variant	157/2136
ENST00000288025	Transcript	missense_variant	72/938
ENST00000186436	Transcript	intron_variant	-/6640
ENST00000275767	Transcript	missense_variant	243/1997
ENST00000515780	Transcript	intron_variant	-/3296
ENST00000316916	Transcript	intron_variant	-/2813
ENST00000515837	Transcript	intron_variant	-/1955
ENST00000341871	Transcript	synonymous_variant	838/3106
ENST00000334830	Transcript	3_prime_UTR_variant	2019/3054
ENST00000237289	Transcript	intron_variant	-/4432
ENST00000223795	Transcript	synonymous_variant	390/1906
ENST00000430969	Transcript	synonymous_variant	5167/10562
ENST00000254051	Transcript	intron_variant	-/4067
ENST00000254051	Transcript	missense_variant	1652/4067
ENST00000382044	Transcript	missense_variant	1202/6231
ENST00000382044	Transcript	missense_variant	3549/6231
ENST00000382044	Transcript	intron_variant	-/6231
ENST00000334295	Transcript	synonymous_variant	536/4030
ENST00000538887	Transcript	intron_variant	-/1542
ENST00000360578	Transcript	intron_variant	-/5116
ENST00000360578	Transcript	synonymous_variant	719/5116
ENST00000345063	Transcript	3_prime_UTR_variant,intron_v	-/5479
ENST00000006275	Transcript	intron_variant	-/805
ENST00000330149	Transcript	intron_variant	-/3242
ENST00000330149	Transcript	intron_variant	-/3242
ENST00000372922	Transcript	missense_variant	3063/7286
ENST00000330912	Transcript	intron_variant	-/2262
ENST00000376694	Transcript	intron_variant	-/2214
ENST00000377199	Transcript	intron_variant	-/2967
ENST00000334634	Transcript	intron_variant	-/3061
ENST00000291416	Transcript	intron_variant	-/3437
ENST00000366653	Transcript	missense_variant	2035/3936
ENST00000298355	Transcript	3_prime_UTR_variant,intron_v	-/5284

VEP annotated somatic variants

ENST00000298355	Transcript	intron_variant	-/5284
ENST00000344204	Transcript	synonymous_variant	4422/11100
ENST00000200457	Transcript	missense_variant	412/1942
ENST00000592062	Transcript	synonymous_variant	2125/2579
ENST00000372936	Transcript	intron_variant	-/3327
ENST00000252015	Transcript	intron_variant	-/3226
ENST00000542188	Transcript	intron_variant	-/5715
ENST00000155858	Transcript	missense_variant	1012/3929
ENST00000313478	Transcript	intron_variant	-/7263
ENST00000418703	Transcript	intron_variant	-/3247
ENST00000298552	Transcript	missense_variant	1187/8604
ENST00000298552	Transcript	intron_variant	-/8604
ENST00000219476	Transcript	intron_variant	-/6156
ENST00000372003	Transcript	intron_variant	-/1615
ENST00000373020	Transcript	missense_variant	434/2206
ENST00000378482	Transcript	intron_variant	-/1909
ENST00000399635	Transcript	synonymous_variant	1618/1814
ENST00000259750	Transcript	intron_variant	-/6932
ENST00000259750	Transcript	missense_variant	1951/6932
ENST00000310715	Transcript	intron_variant	-/3703
ENST00000261647	Transcript	intron_variant	-/3002
ENST00000397906	Transcript	missense_variant	320/11793
ENST00000368586	Transcript	intron_variant	-/8278
ENST00000368586	Transcript	5_prime_UTR_variant	77/8278
ENST00000368586	Transcript	intron_variant	-/8278
ENST00000368586	Transcript	synonymous_variant	2975/8278
ENST00000368586	Transcript	intron_variant	-/8278
ENST00000266254	Transcript	region_variant,synonymous	991/1645
ENST00000393382	Transcript	synonymous_variant	745/3551
ENST00000305253	Transcript	intron_variant	-/6420
ENST00000283645	Transcript	3_prime_UTR_variant	3282/3849
ENST00000248846	Transcript	intron_variant	-/5612
ENST00000367097	Transcript	synonymous_variant	1954/11123
ENST00000367097	Transcript	intron_variant	-/11123
ENST00000548315	Transcript	intron_variant	-/1170
ENST00000395681	Transcript	intron_variant	-/1604
ENST00000319294	Transcript	intron_variant	-/2504
ENST00000284273	Transcript	intron_variant	-/6912
ENST00000348165	Transcript	synonymous_variant	1863/5229
ENST00000375254	Transcript	3_prime_UTR_variant	15610/15906
ENST00000399598	Transcript	intron_variant	-/5068
ENST00000314032	Transcript	intron_variant	-/2623
ENST00000592666	Transcript	5_prime_UTR_variant,non_coding	2487/4308
ENST00000276893	Transcript	intron_variant	-/3452
ENST00000301831	Transcript	3_prime_UTR_variant,intron_v	-/4613
ENST00000408989	Transcript	intron_variant	-/5262
ENST00000408989	Transcript	missense_variant	4006/5262
ENST00000408989	Transcript	3_prime_UTR_variant,intron_v	-/5262
ENST00000268876	Transcript	intron_variant	-/5679
ENST00000389221	Transcript	intron_variant	-/5078
		intergenic_variant	
ENST00000326010	Transcript	synonymous_variant	1301/2290
ENST00000373383	Transcript	intron_variant	-/2186
ENST00000307340	Transcript	missense_variant	7262/18883
ENST00000252597	Transcript	synonymous_variant	1782/3335

VEP annotated somatic variants

ENST00000219473	Transcript	5p_gained,frameshift_variant	1608-1609/3009
ENST00000218348	Transcript	synonymous_variant	600/3289
ENST00000215794	Transcript	intron_variant	-/2129
ENST00000315480	Transcript	intron_variant	-/4458
ENST00000261497	Transcript	3_prime_UTR_variant	1853-1854/5216
ENST00000398571	Transcript	intron_variant	-/11357
ENST00000296792	Transcript	intron_variant	-/3687
ENST00000261637	Transcript	intron_variant	-/9025
ENST00000261637	Transcript	intron_variant	-/9025
ENST00000331397	Transcript	intron_variant	-/6529
ENST00000544301	Transcript	intron_variant	-/2128
ENST00000262178	Transcript	missense_variant	1435/3944
ENST00000435505	Transcript	intron_variant	-/2446
ENST00000554659	Transcript	synonymous_variant	1011/5351
ENST00000423497	Transcript	downstream_gene_variant	-/1219
ENST00000423497	Transcript	intron_variant	-/1219
ENST00000297873	Transcript	missense_variant	696/941
ENST00000325239	Transcript	intron_variant	-/9962
ENST00000263461	Transcript	intron_variant	-/4732
ENST00000263461	Transcript	synonymous_variant	1080/4732
ENST00000263461	Transcript	intron_variant	-/4732
ENST00000263461	Transcript	synonymous_variant	3204/4732
ENST00000263461	Transcript	intron_variant	-/4732
ENST00000280190	Transcript	intron_variant	-/4705
ENST00000414423	Transcript	intron_variant	-/6872
ENST00000407426	Transcript	intron_variant	-/3533
ENST00000302313	Transcript	intron_variant	-/3707
ENST00000407559	Transcript	intron_variant	-/3769
ENST00000303868	Transcript	inframe_deletion	7010-7027/8847
ENST00000354475	Transcript	intron_variant	-/4588
ENST00000288828	Transcript	intron_variant	-/4476
ENST00000315939	Transcript	missense_variant	1064/10452
ENST00000369684	Transcript	synonymous_variant	1655/3818
ENST00000343737	Transcript	missense_variant	160/2112
ENST00000380773	Transcript	intron_variant	-/2670
ENST00000315436	Transcript	intron_variant	-/2646
ENST00000521089	Transcript	intron_variant	-/3562
ENST00000359154	Transcript	synonymous_variant	2595/4515
ENST00000358368	Transcript	intron_variant	-/2667
ENST00000373884	Transcript	3_prime_UTR_variant	1803/2692
ENST00000502935	Transcript	intron_variant	-/2539
ENST00000357137	Transcript	intron_variant	-/7988
ENST00000265351	Transcript	region_variant,synonymous_variant	2890/5360
ENST00000262887	Transcript	synonymous_variant	1166/2802
ENST00000262887	Transcript	intron_variant	-/2802
ENST00000007699	Transcript	intron_variant	-/1590
ENST00000368339	Transcript	intron_variant	-/2874
ENST00000368339	Transcript	synonymous_variant	176/2874
ENST00000325144	Transcript	synonymous_variant	1437/3090
ENST00000237275	Transcript	intron_variant	-/992
ENST00000409806	Transcript	intron_variant	-/1930
ENST00000409806	Transcript	intron_variant	-/1930
ENST00000409806	Transcript	5_prime_UTR_variant	307/1930
ENST00000262577	Transcript	intron_variant	-/3280
ENST00000352645	Transcript	intron_variant	-/5909

VEP annotated somatic variants

ENST00000537356	Transcript	synonymous_variant	2035/2907
ENST00000393760	Transcript	missense_variant	570/1959
ENST00000369405	Transcript	synonymous_variant	1042/2170
ENST00000564466	Transcript	intron_variant	-/1488
ENST00000316495	Transcript	intron_variant	-/860
ENST00000419474	Transcript	missense_variant	4990/9180
ENST00000407775	Transcript	intron_variant	-/4700
ENST00000355341	Transcript	3_prime_UTR_variant	1978/2260
ENST00000394170	Transcript	intron_variant	-/4344
ENST00000231749	Transcript	intron_variant	-/2896
ENST00000231749	Transcript	intron_variant	-/2896
ENST00000535861	Transcript	intron_variant	-/4421
ENST00000370251	Transcript	region_variant,synonymous	1146/6320
ENST00000391705	Transcript	missense_variant	646/4313
ENST00000536459	Transcript	intron_variant	-/3795
ENST00000410046	Transcript	intron_variant	-/3379
ENST00000393927	Transcript	intron_variant	-/1400
ENST00000337995	Transcript	intron_variant	-/3535
ENST00000594154	Transcript	synonymous_variant	1569/4513
ENST00000357901	Transcript	intron_variant	-/4356
ENST00000339249	Transcript	intron_variant	-/3773
ENST00000392288	Transcript	intron_variant	-/5023
ENST00000450537	Transcript	intron_variant	-/5926
ENST00000299927	Transcript	missense_variant	2799/7861
ENST00000431526	Transcript	missense_variant	1373/3195
ENST00000270649	Transcript	missense_variant	748/4818
ENST00000601440	Transcript	5_prime_UTR_variant	59-60/5963
ENST00000397121	Transcript	missense_variant	398/2944
ENST00000421812	Transcript	synonymous_variant	405/5041
ENST00000356929	Transcript	missense_variant	535/4004
ENST00000422325	Transcript	intron_variant	-/3068
ENST00000370766	Transcript	synonymous_variant	4144/5592
ENST00000395216	Transcript	missense_variant	738/3282
ENST00000357666	Transcript	synonymous_variant	1552/2697
ENST00000442396	Transcript	synonymous_variant	2613/2987
ENST00000278853	Transcript	missense_variant	473/1954
ENST00000448803	Transcript	intron_variant	-/3813
ENST00000254323	Transcript	intron_variant	-/4339
ENST00000381638	Transcript	intron_variant	-/11456

VEP annotated somatic variants

CDS_position	Protein_position	Amino_acids	Codons
-/1206	-/401		
-/681	-/226		
-/2781	-/926		
783/4632	261/1543	Y	taT/taC
-/5115	-/1704		
-/4854	-/1617		
-/4854	-/1617		
-/4875	-/1624		
4038/4596	1346/1531	S	tcT/tcA
-/4512	-/1503		
3819/4746	1273/1581	R	agG/agA
-/1230	-/409		
-/2580	-/859		
340/756	114/251	A/T	Gcc/Acc
-/1248	-/415		
-/1278	-/425		
-/1299	-/432		
-/1587	-/528		
-/795	-/264		
-/1272	-/423		
-/1443	-/480		
-/2175	-/724		
-/1731	-/576		
-/1743	-/580		
-/1539	-/512		
2305/2592	769/863	P/S	Ccc/Tcc
-/2475	-/824		
2818/3681	940/1226	L/M	Ctg/Atg
-/3636	-/1211		
-/5733	-/1910		
-/2514	-/837		
-/3354	-/1117		
-/5289	-/1762		
-/981	-/326		
-/1044	-/347		
621/2457	207/818	K	aaA/aaG
-/3657	-/1218		
-/3936	-/1311		
-/2736	-/911		
-/2763	-/920		
573/1080	191/359	L	ctC/ctT
-/3591	-/1196		
-/309	-/102		
48/717	16/238	S	tcT/tcC
-/2364	-/787		
-/2364	-/787		
286/1155	96/384	V/I	Gtc/Atc
588/1638	196/545	S	tcC/tcT
-/1638	-/545		
-/11724	-/3907		
-/11724	-/3907		
-/951	-/316		
-/1830	-/609		

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VEP annotated somatic variants

-/2409	-/802		
-/1539	-/512		
-/2025	-/674		
-/5724	-/1907		
-/5724	-/1907		
-/1185	-/394		
-/1185	-/394		
4341/5835	1447/1944	P	ccG/ccA
-/5694	-/1897		
-/4305	-/1434		
-/2298	-/765		
-/2817	-/938		
3025/3036	1009/1011	F/L	Ttt/Ctt
-/5133	-/1710		
-/3162	-/1053		rs763064
804/3006	268/1001	Q	caG/caA
-/3231	-/1076		
-/1845	-/614		
-/4017	-/1338		
-/114	-/37		
-/2850	-/949		
-/2934	-/977		
-/3414	-/1137		
1066/3414	356/1137	G/R	Gga/Aga
-/2001	-/666		
-/807	-/268		
83/888	28/295	L/R	cTg/cGg
-/888	-/295		
-/972	-/323		
1918/2973	640/990	V/F	Gtt/Ttt
-/546	-/181		
2050/2361	684/786	M/V	Atg/Gtg
-/1554	-/517		
-/1644	-/547		
1806/2961	602/986	E	gaG/gaA
-/4689	-/1562		
-/2130	-/709		
-/2961	-/986		
1099/1677	367/558	L/V	Ttg/Gtg
543/2412	181/803	D	gaT/gaC
-/1239	-/412		
492/540	164/179	G	ggG/ggA
-/1980	-/659		
-/6873	-/2290		
250/6873	84/2290	R/G	Agg/Ggg
-/6873	-/2290		
6009/6873	2003/2290	H	caC/caT
-/1293	-/430		
-/1224	-/407		
-/1224	-/407		
585/1530	195/509	W/C	tgG/tgT
-/2889	-/962		
-/1404	-/467		
-/1764	-/587		
-/1281	-/426		



VEP annotated somatic variants

-/1266	-/421			
-/1944	-/647			
-/1944	-/647			
-/1296	-/431			
-/1296	-/431			
-/3867	-/1288			
-/6747	-/2248			
-/1428	-/475			
-/1377	-/458			
-/1677	-/558			
-/3405	-/1134			
1005/3543	335/1180	A	gcC/gcT	rs
2259/3063	753/1020	A	gcC/gcT	
-/3090	-/1029			
-/2841	-/946			
-/897	-/298			
-/4503	-/1500			
-/3756	-/1251			
-/3144	-/1047			
-/3144	-/1047			
-/2376	-/791			
-/3294	-/1097			
-/987	-/328			
-/1002	-/333			
1564/3039	522/1012	I/L	Atc/Ctc	
-/2589	-/862			
983/1119	328/372	R/H	cGc/cAc	
-/1659	-/552			
-/3564	-/1187			
1157/2133	386/710	R/Q	cGg/cAg	
-/1338	-/445			
-/609	-/202			
-/5136	-/1711			
-/1815	-/604			
2764/2928	922/975			
-/1371	-/456			
308/1179	103/392	N/S	aAt/aGt	
-/2985	-/994			
-/1377	-/458			
-/8763	-/2920			
-/5655	-/1884			
-/5655	-/1884			
-/5655	-/1884			
-/10257	-/3418			
-/1794	-/597			
864/6963	288/2320	Y	taC/taT	
-/1344	-/447			
-/1158	-/385			
-/1158	-/385			
-/1521	-/506			
992/1521	331/506	G/D	gGc/gAc	
-/1137	-/378			
-/516	-/171			
993/1608	331/535	T	acG/acT	
-/5574	-/1857			

VEP annotated somatic variants

-/402	-/133		
4272/4308	1424/1435	D	gaT/gaC
-/2100	-/699		
-/1014	-/337		
164/618	55/205	Q/R	cAg/cGg
-/9291	-/3096		
549-550/738	183-184/245	TM/TX	acTAtg/actg
-/903	-/300		
-/573	-/190		
-/1944	-/647		
1112/1362	371/453	H/R	cAc/cGc
-/321	-/106		
393/957	131/318	D/E	gaT/gaA
1734/2856	578/951	T	acA/acG
-/1203	-/400		
-/2187	-/728		
-/4593	-/1530		
-/846	-/281		
-/1344	-/447		
-/1767	-/588		
-/4992	-/1663		
-/1245	-/414		
-/5031	-/1676		
-/5031	-/1676		
-/423	-/140		
-/2532	-/843		
-/987	-/328		
645/918	215/305	F	ttC/ttT
2446/6663	816/2220	L/F	Ctt/Ttt
-/7521	-/2506		
-/7020	-/2339		
-/6561	-/2186		
-/3453	-/1150		
-/3453	-/1150		
-/1983	-/660		
-/2520	-/839		
-/2382	-/793		
-/1254	-/417		
-/1158	-/385		
-/1500	-/499		
-/972	-/323		
849/3831	283/1276	C	tgC/tgT
-/2220	-/739		
-/2073	-/690		
-/570	-/189		
-/3099	-/1032		
-/1614	-/537		
-/729	-/242		
-/1191	-/396		
-/5280	-/1759		
-/3480	-/1159		
27/456	9/151	L	ctC/ctT
1293/1653	431/550	Q	caG/caA
-/1029	-/342		
733/1500	245/499	V/M	Gtg/Atg

VEP annotated somatic variants

-/1545	-/514		
-/1986	-/661		
-/2895	-/964		
-/870	-/289		
570/2619	190/872	K	aaA/aaG
2024/3342	675/1113	E/V	gAg/gTg
-/1509	-/502		
-/4527	-/1508		
156/2256	52/751	C	tgC/tgT
-/1425	-/474		
-/1959	-/652		
-/297	-/98		
-/1125	-/374		
2390/4338	797/1445	N/S	aAt/aGt
608/816	203/271	H/X	cAc/cc
-/1113	-/370		
-/900	-/299		
776/1533	259/510	K/T	aAa/aCa
-/1200	-/399		
515-541/723	172-181/240	DPPAASALPA/A	AGCAGCCTCTGCCCTC
-/1794	-/597		
-/4656	-/1551		
-/1797	-/598		
1574/2511	525/836	Q/R	cAa/cGa
-/2373	-/790		
-/1509	-/502		
-/918	-/305		
-/1041	-/346		
1227/1740	409/579	P	ccA/ccG
-/3093	-/1030		
-/1338	-/445		
-/1590	-/529		
-/1590	-/529		
-/882	-/293		
-/759	-/252		
-/1536	-/511		
-/4332	-/1443		
755/4332	252/1443	R/H	cGt/cAt
-/1272	-/423		
552/1737	184/578	R	agA/agG
-/2271	-/756		
83/267	28/88	R/L	cGa/cTa
-/7329	-/2442		
-/7329	-/2442		
-/2112	-/703		
-/2112	-/703		
404/1794	135/597	S/N	aGt/aAt
-/2466	-/821		
-/1788	-/595		
-/1872	-/623		
1204/3696	402/1231	H/Y	Cat/Tat
4389/4443	1463/1480	Q	caG/caA
-/498	-/165		
39/2694	13/897	A	gcG/gcC
-/1995	-/664		

VEP annotated somatic variants

-/1995	-/664		
545/1173	182/390	A/V	gCg/gTg
-/1506	-/501		
-/1131	-/376		
-/3393	-/1130		
633/684	211/227	S	agC/agT
-/6210	-/2069		
366/660	122/219	H/Q	caC/caG
-/1260	-/419		
-/2610	-/869		
-/2064	-/687		
-/687	-/228		
-/660	-/219		
-/744	-/247		
309/762	103/253		
-/4317	-/1438		
-/2118	-/705		
-/3105	-/1034		
-/2856	-/951		
4716/7131	1572/2376	Y	taC/taT
-/1533	-/510		
1359/1419	453/472	T	acG/acA
-/3081	-/1026		
-/3996	-/1331		
-/3996	-/1331		
-/6978	-/2325		
3525/3786	1175/1261	E	gaG/gaA
-/2370	-/789		
-/2583	-/860		
-/4494	-/1497		
-/1623	-/540		
-/5145	-/1714		
-/5145	-/1714		
1240/1323	414/440	A/T	Gcc/Acc
-/5076	-/1691		
-/5238	-/1745		
-/3087	-/1028		
-/9534	-/3177		
408/816	136/271	L	ctC/ctG
-/357	-/118		
-/3198	-/1065		
-/1686	-/561		
-/2190	-/729		
3154/3279	1052/1092	I/V	Att/Gtt
-/3858	-/1285		
-/1317	-/438		
-/3111	-/1036		
-/3111	-/1036		
777/807	259/268	A	gcC/gcA
-/2547	-/848		
-/1860	-/619		
-/3069	-/1022		
-/4094	-/1364		
-/237	-/78		
-/1176	-/391		

VEP annotated somatic variants

3912/6969	1304/2322	P	ccT/ccC
-/2103	-/700		
4488/7474	1496/2491	P	ccG/ccA
-/2688	-/895		
423/2205	141/734	V	gtG/gtA
1911/10872	637/3623	L	ctC/ctT
-/2295	-/764		
4715/5349	1572/1782	L/P	cTg/cCg
-/4551	-/1516		
2932/4551	978/1516	G/R	Ggg/Agg
-/2727	-/908		
2403/2727	801/908	A	gcG/gcA
1327/2685	443/894	H/Y	Cac/Tac
-/1248	-/415		
-/780	-/259		
-/831	-/276		
-/1485	-/494		
-/1485	-/494		
-/1512	-/503		
38/1575	13/524	P/L	cCg/cTg
-/1530	-/509		
63/3129	21/1042	P	ccG/ccA
-/1506	-/501		
-/1635	-/544		
-/1803	-/600		
234/1803	78/600	H	caT/caC
-/1803	-/600		
-/4344	-/1447		
1017/1431	339/476	V	gtC/gtT
-/4110	-/1369		
348/570	116/189	V	gtT/gtC
-/2913	-/970		
-/2913	-/970		
-/1860	-/619		
-/3030	-/1009		
670/3864	224/1287	E/Q	Gag/Cag
-/1590	-/529		
-/1653	-/550		
-/2415	-/804		
-/909	-/302		
-/2232	-/743		
-/3474	-/1157		
-/3663	-/1220		
-/3663	-/1220		
-/3663	-/1220		
-/3819	-/1272		
-/4731	-/1576		
-/3165	-/1054		
-/2037	-/678		
-/2268	-/755		
-/675	-/224		
-/2928	-/975		
-/2454	-/817		
-/5760	-/1919		
-/1152	-/383		

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VEP annotated somatic variants

-/1431	-/476		
-/3441	-/1146		
-/13572	-/4523		
-/9279	-/3092		
-/13548	-/4515		
-/13548	-/4515		
-/13548	-/4515		
-/13548	-/4515		
-/13548	-/4515		
-/13458	-/4485		
-/13473	-/4490		
-/13461	-/4486		
-/843	-/280		
-/1086	-/361		
-/4734	-/1577		
-/5493	-/1830		
-/6093	-/2030		
3438/4614	1146/1537	P	ccG/ccA
1051/1236	351/411	E/Q	Gag/Cag
-/1245	-/414		
-/858	-/285		
-/2277	-/758		
-/1050	-/349		
-/2874	-/957		
-/2874	-/957		
-/2874	-/957		
-/6342	-/2113		
-/3000	-/999		
3123/3180	1041/1059	P	ccC/ccA
30/3180	10/1059	C	tgC/tgT
-/8616	-/2871		
-/15516	-/5171		
-/507	-/168		
-/1056	-/351		
-/897	-/298		
279/1869	93/622	R	cgG/cgA
-/567	-/188		
430/1146	144/381	S/A	Tcc/Gcc
-/1938	-/645		
-/12945	-/4314		
-/1086	-/361		
77/693	26/230	R/L	cGc/cTc
1022/2313	341/770	T/I	aCc/aTc
-/2328	-/775		
-/2745	-/914		
-/2715	-/904		
-/2799	-/932		
-/639	-/212		
-/1599	-/532		
-/4236	-/1411		
-/1392	-/463		
-/525	-/174		
-/2922	-/973		
-/1473	-/490		
-/2196	-/731		

VEP annotated somatic variants

372/2502	124/833	R	cgG/cgA
-/3363	-/1120		
-/2919	-/972		
99/1419	33/472	H	caC/caT
1509/1992	503/663	T	acG/acA
417/2463	139/820	I	atC/atT
1509/2463	503/820	I	atC/atA
1218/2463	406/820	F	ttT/ttC
-/2175	-/724		
-/891	-/296		
1034/2982	345/993	S/T	aGt/aCt
-/894	-/297		
-/894	-/297		
1723/2505	575/834	S/P	Tct/Cct
-/2505	-/834		
-/2505	-/834		
489/1179	163/392	A	gcG/gcA
-/1977	-/658		
-/1932	-/643		
-/1569	-/522		
-/1287	-/428		
-/9372	-/3123		
-/3066	-/1021		
416/1368	139/455	H/R	cAt/cGt
1236/1668	412/555	S	agC/agT
-/2934	-/977		
-/6363	-/2120		
1768/2661	590/886	G/R	Ggg/Agg
512/1002	171/333	T/I	aCa/aTa
734/1041	245/346	T/M	aCg/aTg
6/765	2/254	A	gcG/gcA
-/2433	-/810		
-/2418	-/805		
-/2418	-/805		
-/6102	-/2033		
3150/6102	1050/2033	S	tcG/tcA
-/1866	-/621		
1765/2541	589/846	E/K	Gag/Aag
-/2685	-/894		
-/1761	-/586		
3780/7056	1260/2351	D/E	gaC/gaG
-/7056	-/2351		
1120/1386	374/461	V/I	Gtt/Att
-/1599	-/532		
-/1335	-/444		
-/1338	-/445		
-/1260	-/419		
716/1074	239/357	R/H	cGt/cAt
-/588	-/195		
-/588	-/195		
-/342	-/113		
-/342	-/113		
-/4221	-/1406		
348/489	116/162	L	ctC/ctT
-/708	-/235		

VEP annotated somatic variants

-/1281	-/426			
-/3183	-/1060			
-/7056	-/2351			
-/1110	-/369			
-/2007	-/668			
-/3963	-/1320			
-/1554	-/517			
3000/3207	1000/1068	A	gcT/gcC	
560/1359	187/452	A/V	gCt/gTt	
-/4368	-/1455			
-/1611	-/536			
-/1611	-/536			
387/1611	129/536	P	ccA/ccC	rs3E
-/1548	-/515			
-/3165	-/1054			
-/3165	-/1054			
3651/7536	1217/2511	G	ggC/ggT	
-/7536	-/2511			
-/7536	-/2511			
-/7536	-/2511			
464/3696	155/1231	P/L	cCg/cTg	
5896/8430	1966/2809	H/D	Cac/Gac	
-/3138	-/1045			
-/2871	-/956			
-/2871	-/956			
-/837	-/278			
-/1395	-/464			
-/1239	-/412			
-/1734	-/577			
1152/2676	384/891	A	gcG/gcA	
1162/2409	388/802	G/R	Ggg/Agg	
-/1362	-/453			
-/4320	-/1439			
2952/4320	984/1439	N	aaC/aaT	
-/4320	-/1439			
-/2280	-/759			
-/1785	-/594			
594/984	198/327	L	ctG/ctA	
-/669	-/222			
1286/7944	429/2647	T/M	aCg/aTg	
-/7902	-/2633			
-/4092	-/1363			
-/5169	-/1722			
-/5169	-/1722			
441/1599	147/532	S	tcC/tcT	
172-177/3054	58-59/1017	TT/-	ACCACC/-	
-/3054	-/1017			
-/5685	-/1894			
2091/5685	697/1894	A	gcC/gcG	
1284/1335	428/444	Y	taT/taC	
-/2043	-/680			
-/1764	-/587			
1947/12039	649/4012	H	caT/caC	
-/12039	-/4012			



VEP annotated somatic variants

8439/12039	2813/4012	D	gaC/gaT
-/12039	-/4012		
-/12039	-/4012		
3987/6420	1329/2139	I	atC/atA
-/3120	-/1039		
-/1746	-/581		
-/2544	-/847		
1587/1719	529/572	H	caC/caT
-/1098	-/365		
-/1080	-/359		
-/201	-/66		
-/4437	-/1478		
-/1566	-/521		
-/3936	-/1311		
-/3936	-/1311		
-/2058	-/685		
-/2058	-/685		
-/1179	-/392		
-/1812	-/603		
1420/1674	474/557	Q/K	Cag/Aag
157/1914	53/637	Y/D	Tac/Gac
1543/1914	515/637	V/F	Gtt/Ttt
1056/2631	352/876	E	gaA/gaG
1469/2631	490/876	A/V	gCg/gTg
-/2631	-/876		
-/3042	-/1013		
-/1761	-/586		
-/1761	-/586		
660/1761	220/586	P	ccC/ccT
1095/1434	365/477	F	ttC/ttT
-/1209	-/402		
-/1416	-/471		
-/1104	-/367		
-/1290	-/429		
-/843	-/280		
-/2256	-/751		
-/2277	-/758		
1438/1959	480/652	A/P	Gca/Cca
1550/1959	517/652	A/V	gCg/gTg
1405/1593	469/530	R/C	Cgc/Tgc
-/993	-/330		
289/591	97/196	V/I	Gtc/Atc
2652/3612	884/1203	C	tgC/tgT
-/3612	-/1203		
-/1575	-/524		
-/555	-/184		
253/1254	85/417	I/V	Atc/Gtc
-/1254	-/417		
-/1050	-/349		
-/885	-/294		
-/1548	-/515		
309/1068	103/355	D	gaC/gaT
110/984	37/327	R/H	cGc/cAc
453/987	151/328	S	agC/agT
3042/4497	1014/1498	L	ctC/ctT

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VEP annotated somatic variants

-/1959	-/652		
1248/1668	416/555	T	acG/acA
-/2523	-/840		
-/987	-/328		
21/1167	7/388	R	cgG/cgT
370/1527	124/508	V/L	Gtg/Ttg
652/3840	218/1279	A/P	Gcc/Ccc
-/1683	-/560		
-/1683	-/560		
-/1683	-/560		
-/1548	-/515		
1425/2217	475/738	H	caT/caC
-/1989	-/662		
-/1737	-/578		
-/1737	-/578		
-/1737	-/578		
-/5850	-/1949		
-/2751	-/916		
-/2652	-/883		
-/2685	-/894		
1789/2748	597/915	L	Ctg/Ttg
-/3654	-/1217		
1847/2349	616/782	T/M	aCg/aTg
-/1887	-/628		
-/633	-/210		
-/651	-/216		
-/1905	-/634		
-/1905	-/634		
-/3327	-/1108		
-/1332	-/443		
-/1974	-/657		
-/255	-/84		
-/2976	-/991		
-/2976	-/991		
-/3210	-/1069		
-/615	-/204		
525/756	175/251	P	ccG/ccA
-/6435	-/2144		
-/6435	-/2144		
1842/6435	614/2144	T	acG/acA
1895/2568	632/855	V/A	gTg/gCg
-/7833	-/2610		
-/7833	-/2610		
-/2517	-/838		
-/2517	-/838		
-/1017	-/338		
-/14586	-/4861		
187/1047	63/348	H/D	Cat/Gat
1008/2187	336/728	E	gaG/gaA
-/1515	-/504		
-/2349	-/782		
39/300	13/99	D	gaC/gaT
-/381	-/126		
-/381	-/126		
-/411	-/136		

VEP annotated somatic variants

48/312	16/103	A	gcC/gcT
-/2754	-/917		
619/777	207/258	L/M	Ctg/Atg
-/2181	-/726		
-/3030	-/1009		
606/1086	202/361	V	gtG/gtT
-/1806	-/601		
494/1806	165/601	G/V	gGc/gTc
-/1896	-/631		
-/2571	-/856		
1386/2160	462/719	L	ctG/ctA
-/1254	-/417		
516/2328	172/775	G	ggG/ggA
-/483	-/160		
12/1074	4/357	P	ccT/ccA
2109/13125	703/4374	S	tcA/tcG
5987/13125	1996/4374	R/H	cGt/cAt
382/909	128/302	V/I	Gtt/Att
-/909	-/302		
-/909	-/302		
-/1359	-/452		
-/1101	-/366		
536/2190	179/729	S/T	aGt/aCt
28/1548	10/515	F/V	Ttc/Gtc
-/4104	-/1367		
-/7476	-/2491		
-/7476	-/2491		
-/7476	-/2491		
-/1011	-/336		
1347/4026	449/1341	E	gaA/gaG
2571/4026	857/1341	Y	taT/taC
-/4026	-/1341		
-/1296	-/431		
999/1296	333/431	E/D	gaG/gaT
-/1296	-/431		
-/3981	-/1326		
-/4314	-/1437		
3069/3999	1023/1332	L	ctG/ctC
-/2376	-/791		
530/1662	177/553	S/Y	tCc/tAc
-/1725	-/574		
-/819	-/272		
-/735	-/244		
-/333	-/110		
-/603	-/200		
1650/4149	550/1382	A	gcG/gcA
-/4149	-/1382		
-/6573	-/2190		
-/6573	-/2190		
-/2664	-/887		
-/4728	-/1575		
-/4896	-/1631		
-/3549	-/1182		
-/1545	-/514		
957/1392	319/463	V	gtG/gtC

VEP annotated somatic variants

-/3504	-/1167		
-/3504	-/1167		
-/3099	-/1032		
-/3108	-/1035		
-/2793	-/930		
390/2793	130/930	V	gtG/gtA
-/2793	-/930		
-/792	-/263		
-/2841	-/946		
-/8106	-/2701		
-/8106	-/2701		
-/8016	-/2671		
729/1644	243/547	I	atC/atT
-/5166	-/1721		
-/5166	-/1721		
-/2529	-/842		
-/2472	-/823		
-/2535	-/844		
-/3741	-/1246		
-/3741	-/1246		
1206/3741	402/1246	P	ccC/ccT
-/1575	-/524		
-/4059	-/1352		
-/2988	-/995		
1578/2988	526/995	S	agC/agT
2781/2988	927/995	H	caC/caT
234/1476	78/491	L	ctG/ctA
566/1371	189/456	P/R	cCg/cGg
-/1260	-/419		
-/3450	-/1149		
-/942	-/313		
-/780	-/259		
-/5286	-/1761		
-/3195	-/1064		
-/3291	-/1096		
-/4620	-/1539		
2177/4206	726/1401	T/K	aCg/aAg
-/2826	-/941		
1612/2826	538/941	R	Aga/Cga
1930/2826	644/941	R/S	Cgt/Agt
33/1230	11/409	N	aaC/aaT
-/15018	-/5005		
2065/6534	689/2177	S/A	Tct/Gct
-/5439	-/1812		
3486/4104	1162/1367	A	gcC/gcT
-/1557	-/518		
-/4947	-/1648		
270/3090	90/1029	Y	taC/taT
-/2997	-/998		
-/5376	-/1791		
-/3312	-/1103		
-/5343	-/1780		
-/2379	-/792		
-/1182	-/393		

VEP annotated somatic variants

648/1443	216/480	T	acA/acC
39/1794	13/597	V	gtA/gtG
-/1863	-/620		
-/570	-/189		
-/14736	-/4911		
-/5250	-/1749		
-/6630	-/2209		
936/1551	312/516	T	acG/acA
-/2631	-/876		
-/1479	-/492		
-/1755	-/584		
-/1347	-/448		
-/1404	-/467		
-/879	-/292		
-/291	-/96		
330/339	110/112	T	acT/acC
-/2118	-/705		
-/9369	-/3122		
-/9369	-/3122		rs7493
-/5472	-/1823		
-/5472	-/1823		
-/4830	-/1609		
-/4830	-/1609		
-/4830	-/1609		
-/3582	-/1193		
1446/3393	482/1130	S	tcT/tcC
-/285	-/94		
-/459	-/152		
-/819	-/272		
-/2736	-/911		
-/1140	-/379		
-/1500	-/499		
-/1944	-/647		
1277/1779	426/592	R/H	cGc/cAc
-/1470	-/489		
-/4158	-/1385		
-/3078	-/1025		
-/2322	-/773		
42/2280	14/759	A	gcT/gcC
-/2280	-/759		
-/1725	-/574		
-/1839	-/612		
-/1500	-/499		
-/13800	-/4599		
-/4848	-/1615		
562/759	188/252	R/W	Cgg/Tgg
-/759	-/252		
-/1074	-/357		
-/1245	-/414		
20/786	7/261	G/V	gGc/gTc
-/3099	-/1032		
-/5169	-/1722		
275/1977	92/658	L/P	cTg/cCg
713/1392	238/463	R/Q	cGa/cAa
-/243	-/80		

VEP annotated somatic variants

-/2199	-/732		
-/5439	-/1812		
-/1041	-/346		
-/741	-/246		
-/684	-/227		
-/2010	-/669		
-/2010	-/669		
-/2157	-/718		
-/618	-/205		
-/930	-/309		
888/945	296/314	G	ggA/ggG
-/1041	-/346		
-/3429	-/1142		
909/1122	303/373	P	ccG/ccA
-/1821	-/606		
-/3414	-/1137		
2193/2997	731/998	C	tgC/tgT
-/1962	-/653		
1245/3435	415/1144	R	cgT/cgA
728/3030	243/1009	Q/P	cAa/cCa
2594/3180	865/1059	P/L	cCc/cTc
574/3942	192/1313	A/T	Gct/Act
-/1974	-/657		
945/2502	315/833	P	ccT/ccG
-/3720	-/1239		
-/1149	-/382		
-/4713	-/1570		
1011/4713	337/1570	D	gaT/gaC
-/7872	-/2623		
490/1746	164/581	R/S	Cgc/Agc
-/2178	-/725		
-/5943	-/1980		
429/2868	143/955	V	gtG/gtA
-/16791	-/5596		
-/16791	-/5596		
978/1497	326/498	I	atC/atT
-/4365	-/1454		
-/603	-/200		
-/2244	-/747		
419/666	140/221	C/S	tGc/tCc
-/1107	-/368		
-/4626	-/1541		
-/2106	-/701		
-/3000	-/999		
-/1743	-/580		
666/1137	222/378	P	ccG/ccA
-/1617	-/538		
1704/2406	568/801	P	ccG/ccA
-/2406	-/801		
1356/2406	452/801	F	ttC/ttT
343/717	115/238	L/F	Ctt/Ttt
-/6009	-/2002		
-/6009	-/2002		
-/6009	-/2002		
-/2004	-/667		

VEP annotated somatic variants

-/3999	-/1332		
-/3999	-/1332		
-/879	-/292		
-/3111	-/1036		
-/1680	-/559		
-/1710	-/569		
-/1206	-/401		
460/654	154/217	K/Q	Aag/Cag
-/2814	-/937		
1418/2814	473/937	T/I	aCt/aTt
-/1047	-/348		
-/708	-/235		
-/2127	-/708		
916/3972	306/1323	Y/D	Tat/Gat
1853/3972	618/1323	H/R	cAc/cGc
1526/3972	509/1323	V/A	gTg/gCg
-/816	-/271		
-/414	-/137		
-/708	-/235		
-/606	-/201		
-/2739	-/912		
-/2805	-/934		
-/882	-/293		
6909/7650	2303/2549	L	ctG/ctA
3144/3798	1048/1265	A	gcA/gcG
-/3798	-/1265		
-/3798	-/1265		
-/3798	-/1265		
-/2685	-/894		
-/43524	-/14507		
7599/43524	2533/14507	A	gcA/gcG
-/10893	-/3630		
-/10893	-/3630		
7662/8454	2554/2817	P	ccT/ccC
-/1203	-/400		
7353/8487	2451/2828	T	acT/acC
123/924	41/307	A	gcC/gcT
-/3825	-/1274		
3721/5940	1241/1979	A/T	Gca/Aca
-/5841	-/1946		
1095/5808	365/1935	K	aaG/aaA
-/5808	-/1935		
-/5808	-/1935		
-/5883	-/1960		
3558/5745	1186/1914	T	acC/acT
-/10593	-/3530		
-/7704	-/2567		
-/2913	-/970		
-/3297	-/1098		
-/5568	-/1855		
-/6069	-/2022		
-/675	-/224		
1134/3963	378/1320	I	atC/atT
-/3456	-/1151		
-/2487	-/828		

VEP annotated somatic variants

-/2178	-/725		
912/1764	304/587	P	ccG/ccA
-/1548	-/515		
928/1263	310/420	A/T	Gct/Act
-/624	-/207		
-/7116	-/2371		
2768/2901	923/966	H/R	cAt/cGt
-/2901	-/966		
-/2901	-/966		
-/2901	-/966		
274/3966	92/1321	P/S	Ccc/Tcc
-/4206	-/1401		
-/4497	-/1498		
-/2226	-/741		
-/6192	-/2063		
-/7323	-/2440		
1290/1392	430/463	A	gcC/gcT
-/25578	-/8525		
-/25578	-/8525		
-/25578	-/8525		
1062/1620	354/539	T	acG/acA
510/519	170/172	D	gaT/gaC
-/519	-/172		
995/2028	332/675	E/A	gAa/gCa
-/2910	-/969		
-/2703	-/900		
-/2157	-/718		
312/1188	104/395	H	caT/caC
-/4833	-/1610		
-/3744	-/1247		
-/6273	-/2090		
-/1221	-/406		
637/1401	213/466	R/G	Agg/Ggg
-/8415	-/2804		
-/855	-/284		
-/4515	-/1504		
185/720	62/239	S/T	aGc/aCc
-/2547	-/848		
-/3075	-/1024		
-/3603	-/1200		
2955/3603	985/1200	L	ctG/ctT
-/3603	-/1200		
-/2976	-/991		
-/1551	-/516		
-/3441	-/1146		
-/2574	-/857		
-/1785	-/594		
-/1521	-/506		
894/3612	298/1203	D/E	gaT/gaG
-/3612	-/1203		
-/7668	-/2555		
-/7668	-/2555		
3888/4080	1296/1359	V	gtT/gtC
433/1293	145/430	I/L	Atc/Ctc
723/1134	241/377	S/R	agC/agG



VEP annotated somatic variants

-/1296	-/431		
-/1740	-/579		
-/1074	-/357		
-/3495	-/1164		
3705/8091	1235/2696	N	aaT/aaC
-/2304	-/767		
-/1674	-/557		
-/633	-/210		
703/1086	235/361	R/C	Cgc/Tgc
-/1488	-/495		
417/2391	139/796	I	atT/atA
-/2778	-/925		
-/6273	-/2090		
-/1143	-/380		r
-/1407	-/468		
-/1524	-/507		
-/1524	-/507		r
-/2226	-/741		
-/2226	-/741		
-/1596	-/531		
-/1098	-/365		
-/1098	-/365		
-/1098	-/365		
-/1308	-/435		
-/459	-/152		
1884/5691	628/1896	Y	taC/taT
-/996	-/331		
-/543	-/180		
-/972	-/323		
374/948	125/315	R/Q	cGa/cAa
546/987	182/328	L	ttG/ttA
43/948	15/315	F/I	Ttt/Att
-/933	-/310		
657/933	219/310	L	ctC/ctT
570/963	190/320	S	tcT/tcC
895/1089	299/362	I/V	Atc/Gtc
759/942	253/313	G	ggC/ggA
630/945	210/314	I	atC/atT
-/981	-/326		
-/1443	-/480		
-/1434	-/477		
855/1434	285/477	S	tcA/tcG
-/2940	-/979		
-/2781	-/926		
1434-1435/1488	478-479/495	-/S	-/AGC
533/1098	178/365	N/T	aAc/aCc
714/1527	238/508	I	atC/atT
685/1983	229/660	K/E	Aaa/Gaa
-/2892	-/963		
-/393	-/130		
-/1164	-/387		
-/1797	-/598		
612/1797	204/598	L	ctG/ctC
1640/2322	547/773	A/V	gCg/gTg
-/2211	-/736		

VEP annotated somatic variants

84/1428	28/475	R/S	agG/agT
726/1239	242/412	R	cgC/cgT
-/1194	-/397		
-/1353	-/450		
218/408	73/135	I/T	aTa/aCa
-/5874	-/1957		
3362/3714	1121/1237	G/V	gGa/gTa
-/15429	-/5142		
532/861	178/286	V/I	Gta/Ata
-/10011	-/3336		
67/1830	23/609	R/W	Cgg/Tgg
-/1638	-/545		
2205/2826	735/941	I	atC/atT
252/2577	84/858	L	ctG/ctA
-/3270	-/1089		
3252/3321	1084/1106	P	ccA/ccG
-/3321	-/1106		
-/1248	-/415		
-/2367	-/788		
-/2367	-/788		
-/1554	-/517		
4625/5241	1542/1746	S/T	aGc/aCc
-/3114	-/1037		
9/3114	3/1037	P	ccG/ccA
1320/3114	440/1037	P	ccT/ccC
1303/1482	435/493	L/F	Ctt/Ttt
-/1482	-/493		
-/2355	-/784		
-/2355	-/784		
-/2769	-/922		
-/1254	-/417		
1181/1731	394/576	R/Q	cGg/cAg
-/1026	-/341		
-/3291	-/1096		
-/5466	-/1821		
-/3672	-/1223		
-/4134	-/1377		
381/4947	127/1648	A	gcC/gcA
-/576	-/191		
-/1188	-/395		
2010/2796	670/931	T	acT/acC
376/1515	126/504	N/D	Aat/Gat
-/2643	-/880		
-/6297	-/2098		
132/981	44/326	A	gcC/gcA
-/2649	-/882		
1170/1932	390/643	G	ggC/ggT
-/12225	-/4074		
-/2646	-/881		
-/1326	-/441		
-/1689	-/562		
-/4377	-/1458		
-/6909	-/2302		
-/6909	-/2302		

VEP annotated somatic variants

-/6909	-/2302		
5330/6909	1777/2302	T/I	aCc/aTc
-/3798	-/1265		
-/3390	-/1129		
-/3390	-/1129		
4376/14055	1459/4684	H/R	cAc/cGc
789/14055	263/4684	A	gcT/gcC
-/14055	-/4684		
8664/14055	2888/4684	N	aaC/aaT
13872/14055	4624/4684	A	gcT/gcC
11538/14055	3846/4684	A	gcT/gcC
-/3258	-/1085		
-/4095	-/1364		
-/4095	-/1364		
-/4095	-/1364		
-/1836	-/611		
-/1011	-/336		
-/1503	-/500		
-/5517	-/1838		
-/2418	-/805		
1469/1599	490/532	T/M	aCg/aTg
-/1446	-/481		
2121/4128	707/1375	P	ccG/ccA TMP_ESP_
-/1728	-/575		
-/519	-/172		
-/951	-/316		
-/951	-/316		
-/2511	-/836		
545/1080	182/359	K/T	aAg/aCg
34/1518	12/505	P/A	Cca/Gca
1431/1518	477/505	H	caC/caT
-/1584	-/527		
99-100/2268	33-34/755	-/EP	-/GAACCC
-/1434	-/477		
-/465	-/154		
-/1269	-/422		
-/3453	-/1150		
-/798	-/265		
-/1893	-/630		
-/2070	-/689		
-/816	-/271		
-/816	-/271		
-/816	-/271		
-/2133	-/710		
-/4821	-/1606		
-/669	-/222		
-/1683	-/560		
-/2031	-/676		
-/2031	-/676		
-/1779	-/592		
-/1914	-/637		
545/1269	182/422	P/L	cCg/cTg
-/1236	-/411		
-/1932	-/643		
-/2568	-/855		

VEP annotated somatic variants

-/9267	-/3088		
-/1008	-/335		
-/1260	-/419		
-/1281	-/426		
-/1371	-/456		
-/867	-/288		
-/795	-/264		
-/990	-/329		
-/2103	-/700		
-/5724	-/1907		
-/4338	-/1445		
-/4341	-/1446		
2415/3048	805/1015	P	ccC/ccT
-/1422	-/473		
-/3567	-/1188		
-/3567	-/1188		
-/3567	-/1188		
-/3567	-/1188		
-/1260	-/419		
-/1503	-/500		
-/1914	-/637		
56/639	19/212	V/A	gTg/gCg
-/636	-/211		
-/666	-/221		
-/2589	-/862		
1422/1704	474/567	R	cgC/cgT
-/579	-/192		
-/1155	-/384		
2175/3228	725/1075	A	gcA/gcC
-/1947	-/648		
-/2952	-/983		
-/2184	-/727		
-/2772	-/923		
-/1239	-/412		
83/1035	28/344	R/H	cGt/cAt
2379/2793	793/930	R	cgA/cgC
-/2943	-/980		
-/3183	-/1060		
-/660	-/219		
1560/2916	520/971	P	ccA/ccG
-/1740	-/579		
-/2388	-/795		
39-40/336	13-14/111	-/*SX	-/TAATCCCC
-/954	-/317		
1623/1626	541/541	T	acA/acG
-/1626	-/541		
-/1737	-/578		
-/2151	-/716		
-/1464	-/487		
-/1134	-/377		
2331/2355	777/784	T	acG/acA
-/1176	-/391		
-/1176	-/391		
-/900	-/299		
123/2226	41/741	V	gtC/gtA

VEP annotated somatic variants

-/684	-/227			
-/987	-/328			
-/2199	-/732			
-/663	-/220			
-/4956	-/1651			
-/4956	-/1651			
1292/4167	431/1388	T/N		aCt/aAt
-/2814	-/937			
-/7044	-/2347			
-/1443	-/480			
-/1326	-/441			
-/1998	-/665			
-/948	-/315			
-/531	-/176			
-/471	-/156			
-/471	-/156			
111/1212	37/403	P		ccG/ccA
492/792	164/263	L		ttG/ttA
-/2226	-/741			
-/4008	-/1335			
2526/4008	842/1335	T		acC/acT
-/2277	-/758			
603/2277	201/758	A		gcG/gcA
582/1329	194/442	V		gtA/gtG
-/834	-/277			
1412/3099	471/1032	V/A		gTt/gCt
-/2127	-/708			
2064/2127	688/708	P		ccG/ccC
-/1926	-/641			
-/1389	-/462			
3456/15117	1152/5038	I		atC/atT
-/15117	-/5038			
6384/15117	2128/5038	Y		taC/taT
-/15117	-/5038			
-/14904	-/4967			
-/14904	-/4967			
-/14613	-/4870			
-/519	-/172			
-/2757	-/918			
-/753	-/250			
5559/5682	1853/1893	T		acT/acC
-/5550	-/1849			
-/3939	-/1312			
378/1044	126/347	G		ggG/ggA
-/2613	-/870			
-/2067	-/688			
182/2148	61/715	H/R		cAc/cGc
-/2067	-/688			
-/2067	-/688			
-/1245	-/414			
-/6003	-/2000			
3448/5934	1150/1977	W/R		Tgg/Cgg

rs3

VEP annotated somatic variants

-/5934	-/1977		
-/1356	-/451		
-/6642	-/2213		
-/969	-/322		
58/1194	20/397	R/W	Cgg/Tgg
-/3183	-/1060		
1467/2304	489/767	H/Q	caC/caG
-/3099	-/1032		
-/3540	-/1179		
-/3540	-/1179		
266/3540	89/1179	V/A	gTt/gCt
-/3540	-/1179		
-/2565	-/854		
730/747	244/248	Y/D	Tat/Gat
-/1833	-/610		
-/2493	-/830		
-/2316	-/771		
-/2316	-/771		
-/2358	-/785		
-/1077	-/358		
-/1272	-/423		
-/711	-/236		
-/5772	-/1923		
-/5772	-/1923		
-/4329	-/1442		
111/3075	37/1024	G	ggA/ggC
-/3654	-/1217		
-/261	-/86		
-/1707	-/568		
-/3156	-/1051		
-/3156	-/1051		
-/2250	-/749		
-/1161	-/386		
1602/3318	534/1105	A	gcA/gcG
-/6486	-/2161		
-/6486	-/2161		
-/1389	-/462		
2956/4851	986/1616	A/T	Gca/Aca
-/1788	-/595		
-/2352	-/783		
-/2004	-/667		
-/5169	-/1722		
-/1008	-/335		
96/1314	32/437	T	acG/acA
340/1134	114/377	I/V	Att/Gtt
-/3252	-/1083		
-/1788	-/595		
97/1620	33/539	S/P	Tct/Cct
-/1695	-/564		
-/1695	-/564		
285/1674	95/557	L	ctT/ctC
-/1809	-/602		
495/1869	165/622	H	caT/caC
-/2031	-/676		
-/1080	-/359		

VEP annotated somatic variants

-/1080	-/359		
-/1821	-/606		
-/1950	-/649		
-/1977	-/658		
-/1434	-/477		
-/996	-/331		
-/1227	-/408		
-/1473	-/490		
-/1518	-/505		
-/1389	-/462		
1656/2397	552/798	V	gtC/gtT
-/3726	-/1241		
-/1932	-/643		
-/1929	-/642		
-/2211	-/736		
-/1893	-/630		
-/2121	-/706		
-/1608	-/535		
1146/1608	382/535	S	agC/agT
144/2178	48/725	A	gcG/gcC
-/1932	-/643		
-/3165	-/1054		
-/3159	-/1052		
-/3708	-/1235		
126/1308	42/435	Q	caG/caA
-/2823	-/940		
-/1287	-/428		
-/3879	-/1292		
-/3480	-/1159		
567/6672	189/2223	N	aaT/aaC
1392/6672	464/2223	P	ccC/ccT
240/543	80/180	P	ccC/ccA
-/1776	-/591		
-/9804	-/3267		
7166/9804	2389/3267	E/G	gAg/gGg
598/759	200/252	V/L	Gtt/Ctt
12/1275	4/424	P	ccG/ccA
-/11025	-/3674		
-/11025	-/3674		
4603/9693	1535/3230	P/A	Cca/Gca
-/1128	-/375		
-/1053	-/350		
-/1125	-/374		
-/1125	-/374		
-/909	-/302		
3705/7656	1235/2551	H	caT/caC
-/1275	-/424		
381/888	127/295	N	aaC/aaT
-/14103	-/4700		
-/2247	-/748		
-/2364	-/787		

VEP annotated somatic variants

-/1713	-/570			
654/1197	218/398	A	gcA/gcG	
-/246	-/81			
-/993	-/330			
-/2019	-/672		rs746073071	
-/2514	-/837			
-/2505	-/834			
-/3456	-/1151			
610/1269	204/422	S/G	Agc/Ggc	
-/942	-/313			
-/1005	-/334			
-/312	-/103			rs
163/288	55/95	V/M	Gtg/Atg	
-/3264	-/1087			
-/3264	-/1087			
-/768	-/255			
-/1758	-/585			
3381/3825	1127/1274	A	gcC/gcG	
399/20724	133/6907	L	ctG/ctC	
-/20724	-/6907			
2850/4491	950/1496	D	gaC/gaT	
1697/4695	566/1564	P/L	cCg/cTg	
461/3786	154/1261	G/A	gGc/gCc	
1440/2082	480/693	V	gtG/gtA	
-/2082	-/693			
1541/2517	514/838	G/E	gGg/gAg	
-/1389	-/462			
-/2196	-/731			
204/2196	68/731	S	tcC/tcT	
-/2409	-/802			
-/2409	-/802			
766/2286	256/761	V/I	Gtc/Atc	
-/2286	-/761			
338/1554	113/517	T/M	aCg/aTg	
-/3897	-/1298			
2152/2454	718/817	I/V	Att/Gtt	
-/2682	-/893			
-/1158	-/385			
203/684	68/227	G/A	gGa/gCa	
1487/2397	496/798	L/S	tTa/tCa	
-/3297	-/1098			
-/1284	-/427			
819/4149	273/1382	L	ctC/ctT	
-/8199	-/2732			
-/8325	-/2774			
-/1503	-/500			
-/4983	-/1660			
-/4494	-/1497			
-/3405	-/1134			
313/870	105/289			rs
633/1041	211/346	T	acG/acA	
427/1218	143/405	A/T	Gct/Act	
-/762	-/253			
-/2556	-/851			



VEP annotated somatic variants

589/726	197/241	V/I	Gtc/Atc
777/2133	259/710	S	agT/agC
-/3519	-/1172		
-/1140	-/379		
1734/4974	578/1657	A	gcA/gcG
-/693	-/230		
-/1512	-/503		
-/4776	-/1591		
-/5106	-/1701		
1671/2139	557/712	D	gaC/gaT
-/747	-/248		
-/1896	-/631		
-/1896	-/631		
-/744	-/247		
1689/2319	563/772	S	tcG/tcA
-/2319	-/772		
-/2253	-/750		
2872/3042	958/1013	T/A	Aca/Gca
-/3048	-/1015		
-/3048	-/1015		
2532/3048	844/1015	A	gcC/gcT
-/7629	-/2542		
-/855	-/284		
16/723	6/240	F/L	Ttt/Ctt
-/5652	-/1883		
20/558	7/185	R/Q	cGg/cAg
-/750	-/249		
-/1053	-/350		
-/438	-/145		
373/483	125/160	L	Ttg/Ctg
-/1266	-/421		
-/2373	-/790		
276/705	92/234	R	agG/agA
4818/8907	1606/2968	S	tcG/tcC
-/2148	-/715		
1493/2148	498/715	S/N	aGt/aAt
1074/5934	358/1977	D/E	gaC/gaG
3421/5934	1141/1977	K/Q	Aag/Cag
-/5934	-/1977		
108/903	36/300	E	gaG/gaA
-/855	-/284		
-/660	-/219		
597/660	199/219	S	tcA/tcG
-/828	-/275		
-/522	-/173		
-/477	-/158		
-/477	-/158		
2500/3603	834/1200	C/S	Tgt/Agt
-/711	-/236		
-/1398	-/465		
-/1542	-/513		
-/2280	-/759		
-/1428	-/475		
2035/2352	679/783	M/V	Atg/Gtg
-/2133	-/710		

VEP annotated somatic variants

-/2133	-/710		
4398/9294	1466/3097	D	gaT/gaC
52/1431	18/476	P/S	Cct/Tct
1554/1980	518/659	P	ccA/ccG
-/1515	-/504		
-/2394	-/797		
-/4929	-/1642		
1003/3498	335/1165	V/L	Gtg/Ttg
-/5598	-/1865		
-/2616	-/871		
965/3495	322/1164	M/T	aTg/aCg
-/3495	-/1164		
-/5424	-/1807		
-/726	-/241		
322/738	108/245	A/T	Gcc/Acc
-/750	-/249		
1026/1077	342/358	R	agG/agA
-/3966	-/1321		
1868/3966	623/1321	G/A	gGc/gCc
-/3366	-/1121		
-/1143	-/380		
178/7446	60/2481	E/K	Gag/Aag
-/8148	-/2715		
-/8148	-/2715		
-/8148	-/2715		
2874/8148	958/2715	C	tgT/tgC
-/8148	-/2715		
750/1272	250/423	E	gaG/gaA
603/2676	201/891	L	ctT/ctC
-/1686	-/561		
-/3075	-/1024		
-/5460	-/1819		
597/4632	199/1543	R	agA/agG
-/4632	-/1543		
-/1074	-/357		
-/1464	-/487		
-/1986	-/661		
-/1950	-/649		
1503/3252	501/1083	Y	taT/taC
-/15552	-/5183		
-/996	-/331		
-/939	-/312		
-/2409	-/802		
-/3828	-/1275		
-/4341	-/1446		
4006/4341	1336/1446	D/N	Gac/Aac
-/4341	-/1446		
-/2796	-/931		
-/2043	-/680		
957/1155	319/384	V	gtG/gtA
-/930	-/309		
6875/15609	2292/5202	R/H	cGt/cAt
1608/2112	536/703	A	gcA/gcG

VEP annotated somatic variants

1495-1496/2397	499/798	F/*LSSX	ttt/tAGCTCAGTTCtt
600/2892	200/963	L	ctG/ctT
-/1119	-/372		
-/2745	-/914		
-/1578	-/525		
-/10641	-/3546		
-/1557	-/518		
-/8358	-/2785		
-/8358	-/2785		
-/4044	-/1347		
-/1401	-/466		
1249/1317	417/438	G/S	Ggc/Agc
-/1527	-/508		
669/699	223/232	L	ctG/ctA
-/897	-/298		
-/897	-/298		
646/738	216/245	R/W	Agg/Tgg
-/9555	-/3184		
-/3675	-/1224		
834/3675	278/1224	T	acG/acA
-/3675	-/1224		
2958/3675	986/1224	L	ctG/ctA
-/3675	-/1224		
-/3969	-/1322		
-/1986	-/661		
-/2034	-/677		
-/2034	-/677		
-/3201	-/1066		
6785-6802/8622	2262-2268/2873	VREEEEE/E	3GGAGGAGGAGGAGG:
-/2244	-/747		
-/1365	-/454		
421/7149	141/2382	A/T	Gcc/Acc
1170/1176	390/391	Q	caA/caG
32/1056	11/351	C/S	tGt/tCt
-/1998	-/665		
-/1215	-/404		
-/3360	-/1119		
2494/2613	832/870	L	Ctg/Ttg
-/2568	-/855		
-/1188	-/395		
-/2001	-/666		
-/1524	-/507		
2679/3615	893/1204	R	cgT/cgG
618/1902	206/633	P	ccA/ccG
-/1902	-/633		
-/1095	-/364		
-/2667	-/888		
171/2667	57/888	E	gaA/gaG
1296/1545	432/514	E	gaG/gaA
-/669	-/222		
-/1584	-/527		
-/1584	-/527		
-/1584	-/527		
-/2847	-/948		
-/2934	-/977		

VEP annotated somatic variants

621/1212	207/403	P	ccC/ccG
221/1134	74/377	N/I	aAc/aTc
618/1242	206/413	T	acC/acT
-/1038	-/345		
-/438	-/145		
4634/7719	1545/2572	V/A	gTt/gCt
-/3456	-/1151		
-/1416	-/471		
-/2520	-/839		
-/1323	-/440		
-/1323	-/440		
-/2166	-/721		
969/990	323/329	C	tgC/tgT
362/1980	121/659	L/P	cTg/cCg
-/1662	-/553		
-/1389	-/462		
-/1173	-/390		
-/2067	-/688		
1356/1959	452/652	T	acA/acC
-/2082	-/693		
-/1557	-/518		
-/2325	-/774		
-/2679	-/892		
2777/3804	926/1267	S/N	aGc/aAc
1358/2715	453/904	S/Y	tCc/tAc
203/1758	68/585	T/I	aCa/aTa
-/1587	-/528		
80/1767	27/588	G/E	gGa/gAa
285/1638	95/545	S	tcC/tcT
337/1692	113/563	K/E	Aaa/Gaa
-/2745	-/914		
1434/1533	478/510	T	acG/acA
578/1218	193/405	V/G	gTc/gGc
1251/1956	417/651	K	aaG/aaA
2598/2784	866/927	V	gtC/gtT
473/1917	158/638	T/I	aCc/aTc
-/1845	-/614		
-/2970	-/989		
-/8886	-/2961		

VEP annotated somatic variants

Existing_variation	ALLELE_NUM	DISTANCE	STRAND_VEP
	1		1
rs10978447	1		-1
rs279677	1		-1
s11077414,COSM400028	1		-1
	1		-1
rs2041171	1		-1
rs2364315	1		-1
rs6501947	1		-1
rs554012320	1		1
rs55685226	1		-1
1881,rs1799859,COSM37	1		-1
rs150746310	1		-1
rs12600864	1		-1
rs740250	1	339	1
144177905,COSM376016	1		-1
	1		1
rs1251075	1		1
rs41291346	1		1
rs41303309	1		-1
rs747166030	1		-1
rs11039146	1		-1
rs13087169	1		1
rs12915634	1		-1
rs61729367	1		1
rs7485573	1		1
	1		1
s41264285,COSM374756	1		1
rs35431407	1		-1
s12774070,COSM427846	1		1
rs2251105	1		-1
_ESP_12_43887065_4388	1		-1
rs3813622	1		-1
rs75553188	1		-1
rs56778727	1		1
rs67418568	1		1
rs41282522	1	87	-1
13751546,COSM3751547	1		-1
rs342467	1		1
rs34463921	1		1
rs200527701	1		1
rs12671813	1		1
rs5182,COSM4157351	1		1
rs13218824	1		-1
rs8050390	1		1
11,COSM4160250,COSM	1		1
rs7517559	1		-1
rs72649360	1		-1
,rs62619924,RISN_AIPL1	1		-1
rs878081,COSM4002050	1		1
rs1003854	1		1
rs733957	1		1
rs17164315	1		1
rs369069231,rs4732036	1		1
	1		1

VEP annotated somatic variants

rs62128062	1		1
rs4646686	1		1
rs1051713	1		1
rs55736017	1		1
rs2289140	1		1
rs1626649	1		-1
rs1793173	1		-1
rs56780932,COSM383657	1		-1
rs2304872	1		-1
rs3067424	1		1
rs4938014	1		1
rs35235926	1		-1
rs7853994,COSM455856	1		1
rs7096505	1		-1
rs42,COSM4002502,COSM	1		-1
rs11578772	1		1
rs871130	1		-1
rs115250350	1		-1
	1		1
	1		1
rs2301587	1		-1
rs140072315	1		1
rs755049876	1		1
	1		1
rs74869251	1		1
	1		1
rs71428454,COSM140684	1		1
rs71428453	1		1
rs455671	1		-1
rs17138632,COSM448467	1		1
	1		-1
rs2276932	1		1
rs793524	1		-1
rs10521763	1		1
rs62620965	1		-1
rs16837847	1		-1
rs7550948	1		1
rs74404550	1	120	-1
rs34,COSM4002790,COSM	1		-1
rs13753583,COSM3753584	1		1
rs10972173	1		-1
rs12359433	1		1
rs6778511	1		1
rs963618	1		1
rs5951332	1		1
rs2361298	1	480	1
rs3174476	1		1
rs28365160	1		1
rs2305738	1		1
rs28597966	1		1
rs390179,rs6151415,CM963	1		-1
	1		-1
rs2257090	1		-1
rs62251997	1		-1
rs143019035	1		1

VEP annotated somatic variants

	1	-1
rs1872858	1	1
rs9895872	1	1
rs1168966	1	-1
rs749457	1	-1
rs11790014	1	-1
rs8086318	1	1
	1	-1
rs12125325	1	1
rs45570436	1	1
rs36048052,COSM376567	1	1
rs56290406	1	-1
rs17846715	1	1
rs12131640	1	1
rs1891	1	1
rs2853759	1	1
rs113968994	1	1
	1	-1
rs6021355	1	-1
rs3827032	1	-1
rs6442124	1	1
rs35725751	1	1
rs1152194	1	1
rs2281933	1	-1
rs11577579,COSM146698	1	1
rs11374767	1	-1
rs86,CM076013,COSM413	1	1
rs7210438	1	1
	1	1
rs309370,COSM4002928	1	1
rs45500792	1	1
rs73137012	1	-1
rs12388749	1	1
rs741886	1	1
rs754125003	1	1
rs34233512	1	-1
rs41308602	1	1
rs536159058	1	-1
rs62207506	1	1
rs193243275	1	1
rs3092994,CS045209	1	-1
rs8176235	1	-1
rs273900734	1	-1
rs2126042	1	1
rs13153992	1	-1
rs30,COSM1616075,COSM	1	-1
rs2273376	1	-1
rs2283569	1	1
rs28992474	1	1
rs11200559	1	1
rs986178,COSM915571	1	1
	1	1
	1	-1
rs36,COSM3749919,COSM	1	1
rs11652816	1	-1

VEP annotated somatic variants

	1	4376	-1
43,COSM4144742,COSM	1		1
rs7079392	1		-1
rs3740694	1		1
rs10507274	1		-1
rs2111146	1		1
rs139293175	1		1
rs112580616	1		1
rs2302315	1	201	1
rs730228	1		1
18,COSM4140259,COSM	1		-1
rs2304176	1		1
572,BGMUT_792,COSM:	1		-1
267,COSM425808,COSM	1		1
rs148512971	1		-1
rs6688703	1		-1
rs41289218	1		-1
rs11077410	1		1
rs761967500	1		-1
	1		-1
rs366510	1		-1
	1		1
rs41260544	1		-1
rs2269067	1		-1
rs665728,COSM4161167	1		1
rs139255231	1		1
rs2286634	1		-1
rs149154082	1		-1
rs62231971	1		1
	1		-1
rs7034745,COSM150752	1		1
rs77802779	1		1
	1		-1
rs2239801	1		-1
rs11014511	1		1
rs187651793	1		-1
rs7797991	1		1
	1		1
rs41291299	1		1
rs734348	1		-1
rs343989	1		1
M3773923,COSM377392	1		1
rs6925778	1		1
rs2493145	1		1
rs181863983	1		1
rs738304	1		-1
rs2304134	1		-1
rs11574685	1		1
rs3747622	1		1
	1		-1
rs8106895	1		1
rs1974763,CAV3:c.27C>T	1		1
rs74901418	1		-1
rs11280083	1		1
rs35352238,COSM413129	1		1



VEP annotated somatic variants

rs920791	1	-1
	1	1
rs144266211	1	1
rs74002500	1	1
rs146524252	1	1
	1	-1
rs3762117	1	-1
rs670650	1	1
rs11653797	1	-1
	1	-1
rs11234627	1	1
rs3136658	1	-1
rs3092960	1	1
rs2351528,COSM1445871	1	1
rs3227,rs58161637,COSM	1	-1
rs11265493	1	-1
rs55682471	1	1
rs735482,COSM3756954	1	1
rs4844390	1	1
rs779696544,COSM156412	1	-1
rs545464360	1	-1
rs561895	1	-1
rs2073760	1	1
rs3749191	1	-1
rs368295466	1	-1
rs2272211	1	-1
rs2069529	1	1
	1	1
rs56087852,COSM150057	1	1
rs762173324	1	1
rs13043456	1	1
rs1265045	1	-1
rs2302399	1	-1
rs143775364	1	1
rs5828129	1	1
rs2231496	1	-1
rs2300687	1	1
rs5747211,COSM149250	1	1
rs2244682	1	-1
rs75243280,COSM413511	1	-1
rs56066672,rs68186132	1	1
rs41285260	1	1
rs117156562	1	1
	1	1
rs62269547	1	1
rs6766818	1	1
rs1673607	1	-1
	1	1
rs2270202	1	1
	1	1
rs1020,rs1061170,COSM41	1	1
rs2143,rs1800136,COSM37	1	1
rs111775228	1	-1
rs1890042,COSM4142541	1	1
rs2291254	1	-1

VEP annotated somatic variants

rs12832244	1	-1
rs11556868,COSM414213	1	1
rs2302764	1	1
rs582736	1	1
rs4781019	1	1
rs7012	1	-1
rs278126	1	-1
rs3012627	1	-1
rs34054011	1	1
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rs34398185	1	1
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rs11834597	1	-1
rs559165	1	-1
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rs3817012	1	-1
rs2305450	1	1
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rs3829211	1	1
rs11540994	1	-1
rs1660694	1	1
rs1353,CM074755,COSM37	1	-1
rs13068264	1	1
rs3779032	1	1
rs3779031,COSM150415	1	1
rs72760251	1	1
rs1129262,COSM131897	1	-1
rs2303793	1	-1
rs62482495	1	-1
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rs2973747	1	-1
rs7538391	1	-1
rs17128726	1	-1
rs17393069,COSM144684	1	1
rs2295915	1	-1
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rs2839077	1	1
	1	-1
rs18,CM970391,COSM375	1	1
rs10927335	1	1
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rs117188117	1	-1
rs1564823	1	1
rs17618,COSM3750835	1	1
rs10760282	1	1
rs8192494	1	-1
rs181484126	1	1
rs3821157	1	1
rs2,COSM3774265,COSM	1	-1
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rs147910113	1	1
rs1506441	1	1
rs974572	1	1
rs2515838	1	1
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VEP annotated somatic variants

rs62027240,COSM434326	1	-1
rs11699220	1	-1
rs4502229	1	-1
rs3750863	1	-1
rs2297581	1	-1
rs41289311,COSM414457	1	-1
rs12248333	1	-1
rs41274912	1	-1
rs10231075	1	1
rs782154947	1	1
rs2304858	1	-1
rs6433817,COSM4154717	1	-1
rs10,COSM4165632,COSM4165633	1	-1
rs10	1	-1
rs35206429	1	-1
rs1709082	1	1
rs1709081	1	1
rs16995376,COSM375639	1	-1
rs4729021	1	1
rs198430,COSM429407	1	-1
rs687670	1	1
rs2622733	1	-1
rs1056142	1	1
rs10409785	1	1
rs55681834	1	1
rs1431196	1	1
rs9467075	1	-1
rs4742,COSM3760499	1	-1
rs531346334	1	1
rs41313157	1	1
rs17416794	1	-1
rs10739633	1	-1
rs952374,COSM3752807	1	-1
rs9942410	1	-1
rs5993488	1	-1
rs374861176	1	-1
rs2275874	1	-1
rs146907010	1	-1
rs4072887	1	-1
rs9915640	1	1
rs55956367	1	1
rs2271958	1	1
rs72792311	1	-1
rs3082917	1	1
rs3082	1	1
rs11588937	1	1
rs10096210	1	-1
rs17146082	1	-1
rs2281868,COSM4156987	1	1
rs778081516,rs41274582	1	-1
rs72857275	1	-1

VEP annotated somatic variants

rs11084816	1	-1
rs12221039	1	-1
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rs4234394	1	-1
rs12034925	1	1
rs12042900	1	1
rs1995482	1	1
rs79984676	1	1
rs41304141	1	1
rs12951733	1	-1
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rs12948962	1	1
rs41267309	1	1
rs41298531	1	1
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rs6884561	1	1
rs2306431	1	1
rs2286329	1	1
rs1126464,COSM174983	1	1
rs2304175	1	-1
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rs61935050	1	-1
rs76390929	1	1
rs3213505	1	1
rs3747280	1	1
rs5967281	1	1
rs2276343	1	-1
rs140490580	1	1
rs7234288	1	1
rs375,COSM148419,COSM	1	1
rs56148603	1	1
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rs34278949	1	-1
rs369225897	1	-1
rs191289705	1	-1
rs4236506,COSM145211	1	1
rs1005887	1	-1
rs770087	1	-1
rs62467724	1	1
rs313407	1	1
rs1782383	1	-1
rs782358140	1	1
rs1076669	1	-1
rs6750085	1	-1
rs35443668	1	1
rs1919691	1	1
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rs2070699	1	1
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rs61933720	1	-1
rs310618	1	-1
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rs56380058	1	1
rs111797029	1	1
rs10848906	1	-1

VEP annotated somatic variants

71,COSM3760028,COSM	1		-1
rs188362092	1		-1
rs771999554,rs2120276	1		-1
72,COSM3759453,COSM	1		1
rs2181440	1		-1
rs2071857,COSM3759172	1		-1
rs8142615,COSM1416128	1		-1
rs7292751,COSM3759172	1		-1
rs2239691	1		1
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rs709683	1		-1
rs2252767	1		1
rs1871685	1		1
rs2250718,COSM3999148	1		1
rs2273707	1		1
rs2273706	1		1
rs79126103,COSM123878	1		-1
rs10760503	1		-1
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rs3176889	1		1
rs145747095	1	3021	-1
rs377295148	1		1
rs6971720	1		1
4366,rs2234922,COSM37	1		1
rs13439459,COSM376328	1		1
rs16947425	1		-1
rs2272313	1		1
rs10935282	1		1
CM920244,rs1801591	1		-1
426,COSM3721676,COSM	1		-1
rs3810381,COSM3749518	1		-1
rs41286811	1		-1
rs2307003	1		1
rs12975442	1		1
rs79643517	1		-1
rs1076871	1		-1
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rs5155,rs1047840,COSM10	1		1
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rs56194802	1		-1
800291,COSM3759433,C	1		-1
rs7058826	1		-1
40655,CM940656,rs13785	1		1
rs4030473	1		1
rs174589	1		1
rs174453	1		-1
rs733679	1		1
rs6007594,COSM149314	1		1
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rs2475853	1		-1
rs62599865	1		-1
rs61703386	1		-1
rs41305290	1		-1
rs1939383	1		-1

VEP annotated somatic variants

rs3780	1		-1
rs3733577	1		-1
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rs916668	1	12	-1
rs2075566	1		-1
rs10793625	1		1
rs771204	1		-1
rs9358802,COSM150059	1		-1
rs11555275	1		1
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rs7757405	1		1
rs300377,FANCE:c.855+58A>	1		1
rs4713867,FANCE:c.387A>	1		1
rs1052583	1		1
rs16843671	1		1
rs2240482	1		1
rs341283365,COSM413084	1		-1
rs17848937	1		-1
rs17848935	1		-1
rs1127678	1	3279	-1
rs190206480	1		1
rs34167077	1		-1
rs4883569	1		1
rs2066913	1		1
rs10973387	1		-1
rs28401636	1		-1
rs553196851	1		-1
rs7630741	1		1
	1		-1
rs11119925	1		-1
rs2287854,COSM4131434	1		1
rs855,CM023917,COSM150	1		1
rs1049636	1		-1
rs1893433	1		1
rs3744903	1		1
rs1893434	1		1
rs774914442,rs2231901	1		-1
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rs56301507	1		1
rs6704545	1		-1
rs36051194,CM065185	1		-1
rs2177153	1		1
rs3214903	1		-1
rs12122068	1		1
rs6686353	1		1
rs18529,rs1800822,COSM14	1		1
rs67450550,COSM244569	1		-1
rs7929014	1		-1
rs294883	1		1
rs381639,COSM4160337	1		1
rs2293783,COSM4003704	1		1
rs4714489	1		1
rs10106	1		1
rs9,COSM4159210,COSM4	1		1
rs35583270	1		1

VEP annotated somatic variants

94,COSM3760773,COSM	1		1
rs17457087	1		1
rs34505482	1		1
rs1545437	1		-1
rs74123100	1		-1
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rs57337277	1		-1
rs117877479	1		1
rs838137	1		-1
rs9807877	1		-1
rs529623	1		-1
rs1994490	1		-1
rs7617829	1		-1
rs1564281	1		-1
rs3830208	1		-1
rs12432149	1		-1
rs76999174	1	41	-1
rs76743658	1		-1
rs4958733	1		1
rs2288101	1		-1
rs10849133,COSM112858	1		1
rs1468556,COSM1179986	1		1
rs16962977	1		-1
rs16962974	1		-1
rs35950532	1		-1
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rs3806338	1		-1
rs76346754	1		-1
rs61729628,COSM375144	1		-1
rs5384	1		1
rs71548508,COSM150047	1		1
rs36,COSM3982916,COSM	1		1
rs2293	1		1
rs9971293	1		-1
rs10136536	1		1
rs181881694	1		1
rs1254898	1		-1
rs11083455,COSM413177	1		-1
rs56854837	1		-1
rs79309130	1		-1
rs147513433	1		1
rs6076347,COSM1410878	1		1
rs2303275,COSM3755068	1		-1
rs2303278	1		-1
rs764963799	1		1
rs1049346	1		-1
rs4907817	1		-1
rs12844618	1		-1
rs79806135	1		-1
rs11229655	1		-1
rs4852349	1		1
rs1805058,COSM1130492	1		1
rs49,COSM3759036,COSM	1		-1
rs4986942	1		-1
rs3M430787,COSM1628466	1		-1

VEP annotated somatic variants

CR022116,rs2243093	1		1
rs2274020,COSM147704	1		1
rs2793442	1		-1
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rs1190736,COSM415660	1		-1
rs4838684,COSM427276	1		1
rs147825070	1		1
rs11101914	1		1
rs12219529	1		1
rs77245879	1		-1
rs53,COSM3998282,COSM	1		1
rs62265406	1		1
rs2748338	1		1
rs34212133	1		1
rs116870369	1		1
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rs3828595	1	11	1
rs4475186	1		1
rs41312596	1		1
rs14002821,COSM400282	1		1
rs34108640	1		1
rs76463933	1		1
rs974285	1		1
rs757687772,rs1871042	1		1
rs72681249	1		1
rs12356612	1		1
rs41260144	1		1
rs616218	1		-1
rs1052278	1		1
rs17676826	1		-1
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rs34922454	1		-1
rs6580637	1		-1
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rs2243388	1		-1
rs14156991,COSM415698	1		-1
rs56351858	1		-1
rs16833972	1		-1
rs3738541	1		-1
rs4720951,COSM416247	1		1
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rs12220588	1		1
rs10882474	1		1
rs2232253	1		1
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rs1960827,COSM3761737,C	1		1
rs148714837	1		-1
rs74648342	1		-1
rs12436072	1		1
rs12164	1		1
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rs16891397	1		1
rs77463023	1		-1



VEP annotated somatic variants

rs3752419,COSM416043	1	-1
rs775476188	1	1
rs3761983,COSM3761984,	1	1
rs2073420	1	-1
rs546127026	1	-1
rs1131488,COSM375217	1	1
rs2272790	1	1
rs1053593	1	1
rs2071190	1	1
rs77856552	1	1
rs35337531	1	-1
rs3830343	1	1
rs3737243	1	1
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rs6320,COSM150432	1	1
rs6638360	1	-1
rs200650762	1	-1
rs319,COSM149242,COSM	1	-1
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rs1048710	1	-1
rs540557518	1	-1
rs12904700	1	1
rs866484	1	1
rs051393,COSM4002001,C	1	1
rs33982004	1	1
rs609207	1	1
rs2297370	1	1
rs2274849	1	1
rs34297802	1	1
rs1128617	1	-1
rs4830219,COSM146565	1	-1
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rs6782002	1	-1
rs36052974	1	-1
rs9848979	1	-1
rs61886896	1	-1
rs139927942	1	-1
rs1063110,COSM376350	1	-1
rs35444385,rs57179462	1	1
rs146644651	1	-1
rs41268137	1	-1
rs12722600	1	-1
rs143249661	1	1
CR032720,rs3842752	1	-1
rs3741211,CS012210	1	-1
rs2059806,COSM148469,C	1	-1
rs2860177	1	-1
rs11761394	1	-1
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rs3797390	1	1
rs768211373	1	-1
rs2291919	1	1
rs75282194	1	1
rs34051422	1	1

VEP annotated somatic variants

rs1109216	1	1
rs2274617	1	1
rs2305586	1	1
rs3821909	1	1
rs2239547,CR117967	1	-1
rs2276817	1	-1
rs2240917	1	-1
rs1751134	1	-1
rs41307668	1	-1
rs7957289	1	-1
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rs78399616	1	1
rs34043167	1	-1
rs2298681	1	1
rs2073366	1	1
rs11098988	1	1
rs5952987	1	1
rs9419380	1	1
rs13214720	1	1
rs2076056	1	1
rs742099,COSM3761611	1	1
rs10545425	1	1
rs17369029	1	1
rs41289438	1	-1
rs17855078	1	-1
rs10889315,COSM426544	1	-1
rs9800580,COSM3761529	1	-1
rs1611775	1	-1
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rs16885430	1	1
rs12706859	1	-1
rs80095910	1	-1
rs9534059	1	-1
rs41300795	1	1
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rs141093070	1	1
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rs13759496,COSM3759497	1	1
rs59225858	1	-1
rs1062277,COSM3762429	1	-1
rs6950119,COSM321080	1	-1
rs11913944,COSM400219	1	-1
rs68107102	1	1
rs111,COSM4003699,COSM	1	1
rs147073742	1	-1
rs138496842	1	-1
rs757731918	1	1
rs114902761	1	-1
rs12046928	1	-1
rs72852205	1	1
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rs16862956	1	-1
rs3736968	1	-1

VEP annotated somatic variants

rs11552577	1	-1
rs202185247	1	1
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rs149140699	1	-1
rs9418941	1	1
rs7307735	1	1
rs10953283,COSM376291	1	-1
rs190427523	1	1
rs34946378	1	1
rs543603727	1	-1
rs2604958	1	-1
rs2071602	1	-1
rs463217	1	1
rs9306112	1	1
rs9984726,COSM413503	1	-1
rs73176644	1	1
rs3841288	1	1
rs6600,LAMA2:c.284-85de	1	1
rs9374309	1	-1
rs6908219	1	-1
rs2296300	1	1
rs6672093	1	1
rs2296299	1	1
rs684527	1	1
rs13761532,COSM3761534	1	-1
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rs6695528	1	1
rs11610822	1	1
rs893239	1	1
rs36068997	1	-1
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rs7334674	1	1
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rs3813933	1	1
rs182548747	1	1
rs750695318,rs2304720	1	1
rs9877192	1	1
rs10771166	1	1
rs13387241	1	-1
rs2242339	1	1
rs138879160	1	-1
rs139839409	1	-1
rs1741547	1	-1
rs2354444	1	1
rs7094610	1	-1
rs78140568	1	1
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rs34423045,COSM375996	1	-1
rs36006556	1	1
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VEP annotated somatic variants

rs2839146	1		-1
rs2274800	1		-1
rs75340045	1		1
rs4130852	1		-1
rs41308397	1		-1
rs807023	1	2489	1
rs752974	1		1
rs73048940	1		-1
rs2908989	1		-1
rs2070945	1		-1
rs2233055	1		-1
rs770941569	1		1
rs5953637	1		1
rs3765272,COSM415663	1		-1
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rs113311895,COSM41566	1		1
rs2142887	1		-1
rs6894260	1		1
rs2301796,COSM448019	1		1
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rs5909299,COSM415676	1		-1
rs74430817	1		1
rs56072295	1		-1
rs55715763	1		1
rs72288687	1		1
rs2290689	1		1
rs34,COSM4131225,COSM	1		1
rs4502771	1		1
rs38,COSM3749709,COSM	1		-1
rs2270969	1		-1
rs2250213	1		-1
rs70,COSM4161135,COSM	1		-1
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rs751446,RettdBASE_c.942	1		-1
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rs616836	1		-1
rs3745480	1		1
rs147500056,COSM37361	1		1
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rs368622121	1		-1
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rs1263792	1		-1
rs13023973	1		-1
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VEP annotated somatic variants

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rs12012022	1	-1
rs6622126	1	-1
rs6495341	1	1
rs1793141	1	-1
rs496797	1	-1
rs13997590,COSM399759	1	1
rs13747021,COSM3747022	1	1
rs14144097,COSM4144099	1	1
rs3809869	1	-1
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rs181211282	1	-1
rs34547023	1	-1
rs11042902	1	-1
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rs12501541	1	1
rs11121691,COSM399674	1	-1
rs2229276,COSM3751028	1	1
rs3820571	1	1
rs3820568	1	1
rs2297965	1	1
rs34883891	1	1
rs111427194	1	-1
rs139,COSM4132886,COSM	1	-1
rs10878538,COSM160605	1	1
rs3751175	1	1
rs7480563,COSM428399	1	1
rs12935454	1	-1
rs135,COSM3759478,COSM	1	-1
rs4796854,COSM437809	1	-1
rs11570050,rs181840234	1	-1
rs94,COSM3999723,COSM	1	-1
rs3957557	1	-1
rs735711,COSM3753909	1	-1
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rs7159367	1	-1
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rs2072012	1	1
rs72818342	1	-1
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VEP annotated somatic variants

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rs11670727	1		-1
rs878907	1		-1
rs1318102	1		-1
rs11657883,COSM148287	1		1
rs35995789	1		1
rs11653231	1		1
rs228603,COSM439006,C	1		1
rs73044244	1		1
rs375430154	1		-1
rs114443303	1		1
rs6087625	1		-1
rs1079533	1		-1
rs1136207	1		1
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rs6433569	1		-1
rs4300824	1		-1
rs70,COSM4158999,COSM	1		-1
rs4804	1		1
rs2275712	1		1
rs201763096	1		1
rs4648073	1		1
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rs587555	1		1
rs115931931,COSM132919	1		-1
rs10457670	1		-1
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rs6860507	1		1
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rs456285	1		-1
rs149560096	1		1
rs61755040	1		-1
rs2233442	1		1
rs376045897	1		-1
rs17646552	1		1
rs61732213,COSM375729	1		1
rs74763333	1		1
rs117307800	1		-1
rs11246947	1		1
rs10813983	1		-1
rs1263337	1		-1
rs11553611	1		1
rs905721	1		1
CM981388,rs1799983	1		1
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rs12344155	1		-1
rs11574894	1		-1
rs217434	1		-1
rs34,COSM3765512,COSM	1		-1
rs727162,CM1110386	1		1

VEP annotated somatic variants

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rs7644275	1		1
rs773872527	1	255	-1
rs144139217	1		-1
rs28932181	1		1
rs2303707	1		-1
rs142803792	1		-1
rs79891871	1	4704	-1
rs11550029,COSM45311	1		-1
rs1175392	1		-1
rs10093400	1		-1
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rs11244329	1		1
rs10872646,COSM416027	1		-1
rs141363348	1		1
rs10567712	1		-1
rs7657846,COSM400314	1		-1
rs1806222	1		-1
rs748486	1		-1
rs1029305	1		-1
rs2027833	1		-1
rs202009336,rs2027831	1		-1
rs2027832	1		-1
rs2295478	1		-1
rs2294695	1		-1
rs510,COSM3718591,COSM3718591	1		-1
rs11903	1		-1
rs3826861	1		-1
rs1025576	1		-1
rs1025576,TMP_ESP_17_3195503_1025576	1		-1
rs7121804	1		1
rs61890335	1		-1
rs56352135	1	16	1
rs12283334,COSM399844	1		-1
rs10838637,COSM399848	1		-1
rs7145814,COSM375386	1		-1
rs115424559,COSM15670	1		1
rs4465383	1		-1
rs74782118	1		1
rs2297594	1		1
rs733728	1		1
rs173776,COSM4129428	1		1
	1		1
rs57131062	1		-1
rs148216086	1		1
rs1152187	1		-1
rs2070871,COSM400035	1		-1
	1		-1
rs55701638	1		1
rs5914274	1		1
rs10408458	1		1
rs62620049	1		-1
rs11185826,COSM375203	1		-1
rs7535528,COSM374688	1		-1
rs760781025	1		1

VEP annotated somatic variants

rs11577368	1		-1
M3752215,COSM375221	1		1
rs41302597	1		1
rs13007173	1		-1
36,COSM4003697,COSM	1		-1
rs3812657	1		-1
766854336,COSM346947	1		-1
rs12707531	1		-1
s4816,COSM3761539,CC	1		1
rs78561636	1		1
s2241988,COSM4158259	1		1
rs74436253	1	142	-1
13710427,COSM3710429	1		-1
s1131978,COSM3752059	1		1
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rs246388,COSM149993	1		-1
rs246391,COSM149994	1		-1
rs1780192	1		1
rs4985155	1		1
rs2740	1	556	1
rs34125357	1	1739	-1
30,COSM3999606,COSM	1		-1
rs6676171	1		1
rs12407843	1		1
s6671392,COSM3677414	1		1
rs17570,COSM3756628	1		-1
rs1061338	1		-1
rs2306304	1		1
rs2306301	1		1
	1		-1
rs17303413	1		1
47,COSM3756392,COSM	1		-1
rs3006473	1		-1
rs3750354	1		1
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	1		-1
	1		1
61,COSM3998492,COSM	1		1
rs1668	1		1
rs7531782	1		-1
rs17714063	1		-1
rs72818370	1		1
rs4791765	1		-1
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s11541025,COSM375928	1		1
rs5751975	1		-1
rs3761646	1		-1
rs734823	1		-1
rs9370067	1		-1
rs7967264	1		-1
	1		-1
rs2020923	1		-1
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rs3740365	1		1
rs10786156	1		1



VEP annotated somatic variants

rs3831084	1	1
CM105437,rs3765524	1	1
rs4072830	1	1
rs12727342	1	1
rs10752744	1	1
70,COSM3763171,COSM	1	-1
13,COSM3763186,COSM	1	-1
rs1065837	1	-1
33,COSM3763134,COSM	1	-1
09,COSM3763110,COSM	1	-1
35,COSM3763122,COSM	1	-1
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rs6573782	1	1
rs1555400	1	1
rs749271	1	1
rs28687780	1	1
rs139924905	1	1
rs3744078	1	-1
rs55709850	1	-1
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M3762011,COSM376201	1	1
rs2294917	1	1
38,COSM3749575,COSM	1	1
12_89919631_89919632,	1	-1
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rs2424213	1	1
rs7986347	1	-1
88,COSM3834038,COSM	1	1
rs1801282,CM981614	1	1
4587,rs3856806,COSM40	1	1
rs1669112	1	1
201186780,COSM174549	1	1
rs2301287	1	1
rs34856581	1	-1
rs7894	1	1
rs113986045	1	1
rs741932	1	1
rs2136998	1	-1
rs11099079	1	1
rs496067	1	1
rs201600914,rs513572	1	1
rs513573	1	1
rs880177	1	-1
rs12544121	1	1
rs3741089	1	-1
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rs45596236	1	1
rs67531107	1	1
rs384726	1	1
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rs141874203	1	-1
rs3761484	1	1
rs9626578	1	1
rs150305650	1	-1

VEP annotated somatic variants

rs550887876	1	-1
rs144556615	1	-1
rs59007873	1	-1
rs2072284	1	-1
rs62086002	1	-1
rs2142111	1	-1
rs3809916	1	1
rs2273786	1	-1
rs41282874	1	1
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rs3821880	1	1
rs4341027	1	-1
rs17853260,COSM452796	1	-1
rs12928073	1	-1
rs116992433	1	-1
rs117568247	1	-1
rs138666431	1	-1
rs201905426	1	-1
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rs765051702,rs2058464	1	1
rs3744619	1	1
rs3751112,COSM3736249	1	-1
rs3812730	1	-1
rs1626469	1	1
rs11871517	1	1
rs14193	1	-1
rs145796187	1	1
rs17783124	1	1
rs2306919,COSM3723307	1	-1
rs3729931	1	-1
rs533403212	1	1
rs1767443	1	-1
rs10875687	1	-1
rs776781597,rs34729771	1	-1
rs201983107	1	-1
rs367680909	1	1
rs9530901	1	-1
rs2963925	1	1
rs7813046	1	1
rs11788747,COSM376392	1	1
rs150557566	1	1
rs6899737	1	-1
rs5851607,COSM1318744	1	-1
rs465736	1	1
rs11242	1	-1
rs2581786	1	-1
rs1546650	1	-1
rs1549168	1	-1
rs2275742,COSM146839	1	-1
rs2272805	1	1
rs32,COSM1751658,COSM	1	-1
rs3840984	1	1
rs76239019	1	1
rs55668927	1	1
COSM3360533	1	-1

VEP annotated somatic variants

rs12944458	1		1
rs374247435,rs33952548	1		-1
rs144040326	1		-1
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rs9864412	1		-1
rs967454	1		-1
rs11208364	1		-1
rs1535330	1		-1
rs193084032	1		-1
rs2224797,rs111914364	1	4471	1
rs7900838	1	3588	1
rs7968684	1		-1
rs486089	1	1111	-1
rs7136561	1		-1
rs12947988	1		-1
rs73020697	1		1
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rs6509,COSM3759202	1		-1
rs7580,COSM1469302	1		-1
rs6932660	1		-1
rs7217786	1		1
rs2271603,COSM437758	1		1
rs2838344	1		1
rs2155722,COSM149238	1		1
rs7210579,COSM1384222	1		1
rs3765595	1		-1
rs542998	1		1
rs12658664	1		1
rs92,COSM1620146,COSM	1		1
rs7098448	1	58	-1
rs1805343	1		1
rs52,RYR1:c.3456C>T,COSM	1		1
rs745843,RYR1:c.270+27G	1		1
rs75181912	1		1
rs777579024	1		1
rs10754602	1		1
rs791541	1		1
rs41279198	1		1
rs11147974	1		1
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rs11763269,rs56059694	1		-1
rs1053744	1		-1
rs11042500	1		-1
rs776039654	1		1
rs1142287,COSM4142788	1		-1
rs882745	1		-1
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rs572,COSM452260,COSM	1		1
rs35006492	1		-1
rs167618	1		-1
rs1546961	1	2	-1
rs3731760	1		-1
rs1CM051623,rs6746030	1		-1

VEP annotated somatic variants

rs10180721	1		-1
rs73100512	1	97	-1
rs3801066	1		1
rs530168313	1		-1
rs9608973	1		-1
rs6695715	1		-1
rs2273526,COSM375846	1		1
rs2303513	1		-1
rs3830973	1		-1
rs3750630	1		-1
rs3763695,COSM414428	1		-1
rs9420792	1		-1
rs117852708	1		1
rs61738919,COSM376622	1		-1
rs5362	1		-1
rs17522707	1		-1
rs1990044	1		-1
rs17241389	1		-1
rs6446202	1		1
rs1062753	1		1
rs9323910	1		1
rs268686	1		-1
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rs35377445,COSM375909	1		1
rs7197262	1		1
rs147508693	1		-1
rs3998628	1		1
rs2429908	1		1
rs2447099	1		1
rs143734853	1		1
rs7805	1	2	1
rs3740471,COSM375151	1		-1
rs187882127	1		-1
rs41275786	1		-1
rs1233555	1		-1
rs199645557,COSM39740	1		1
rs3810108	1		-1
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rs9982519	1		1
rs12145798	1		-1
rs11581248	1		1
rs779111224	1		1
rs13106574,COSM376079	1		-1
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rs11976455	1		-1
rs6647476,COSM458039	1		1
rs2269914	1		-1
rs11668879	1		-1
rs35,COSM4005840,COSM	1		1
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rs941650	1		1
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rs12942600	1		-1

VEP annotated somatic variants

rs112153156	1	-1
rs145107782	1	1
rs4980349	1	1
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rs41302651	1	1
rs34664116	1	-1
rs205966	1	1
rs35870005	1	1
rs948270	1	1
rs78020607	1	1
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rs2288998	1	-1
rs12703112	1	1
rs4808709	1	1
rs10521578	1	1
rs2278405	1	-1
rs6354	1	-1
rs2248253	1	-1
rs1569951	1	-1
rs17183863,COSM399922	1	-1
rs1056846,COSM415685	1	-1
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rs11090629	1	-1
rs109,COSM3754066,COSM	1	1
rs917208	1	1
rs12065652	1	-1
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rs1544402	1	1
rs10754367	1	-1
rs12142616	1	-1
rs5908761	1	-1
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rs875097	1	1
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rs11548457,COSM375674	1	1
rs124,COSM3751948,COSM	1	-1
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rs58090119	1	-1
rs117804715	1	1
rs12536873	1	1
rs55776327	1	1
rs1008335	1	1
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rs139731922	1	-1
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rs7207173	1	-1
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rs697210	1	1
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rs11556615,COSM376069	1	1
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rs557622174	1	-1
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VEP annotated somatic variants

rs3780015	1		-1
rs10851866	1		-1
rs3934983	1		-1
rs58802664	1	84	1
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rs1834	1		1
rs34275118	1		1
rs41285881	1		1
rs3759259	1		-1
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s13050872,COSM376667	1		-1
.2118,rs237025,COSM40	1		1
rs4803244	1		1
rs1529733	1		1
rs4341217	1		1
rs1390679	1		1
rs1132645	1		-1
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s33976862,COSM14779	1		1
rs74413846	1		1
rs1744177	1		1
rs3743244	1		1
M3760355,COSM376035	1		1
rs3734296	1		1
rs237028	1		1
s17680881,COSM376048	1		1
rs3788764	1		-1
rs2073138	1		-1
rs35105682	1		-1
rs572705	1		-1
rs606511	1		-1
rs394558	1		1
rs3217211	1		1
rs146025212	1		1
rs9573565	1		-1
rs1138454	1		-1
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rs59223436	1		-1
s5944856,COSM375931	1		1
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rs10044956	1		1
rs12169610	1		1
s11851097,COSM14784	1		1
rs530289129	1		-1
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rs251796	1		-1
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rs302858	1		-1
rs118141221	1		-1
s12857479,COSM375363	1		1
rs324356,COSM3761619	1		-1
s199687528,COSM7295	1		-1
rs12609379	1		-1
rs11165376	1		-1

VEP annotated somatic variants

rs2290380,COSM375955	1	1
rs513970	1	-1
rs6605530	1	-1
rs3214576	1	-1
rs2074603	1	-1
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rs41284222	1	1
rs2292151,COSM3764756	1	-1
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rs200152166	1	-1
rs2279322	1	-1
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rs78,COSM3956876,COSM	1	-1
rs8036209	1	-1
	1	1
rs2291822,COSM4002988	1	1
rs77173980	1	-1
rs12252784	1	-1
rs61741039	1	-1
rs144703742	1	1
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rs76116020	1	-1
rs895438	1	-1
rs3800592	1	1
rs2276884	1	-1
rs5936308	1	-1
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rs147529920	1	-1
rs12646286	1	-1
rs661561	1	1
rs3181195,COSM4163270	1	-1
rs3762758,COSM376275	1	-1
rs34377860	1	-1
rs2290207,COSM3755468	1	-1
rs17475,rs560191,COSM37	1	-1
rs7476,rs2602141,COSM37	1	-1
rs16957730	1	-1
rs1045781	1	-1
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rs1697964	1	-1
rs1697963,COSM1438470	1	-1
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rs10410833	1	-1
rs9322994	1	-1
rs12147991	1	-1
rsCM065497,rs2295275	1	-1
rs3020967	1	-1
rs1029237	1	1
rs2269553	1	-1
rs4971059	1	1
rs35622844	1	-1
rs5891,COSM24030,COSM	1	1
rs2297889	1	-1

VEP annotated somatic variants

rs11268748	1	-1
rs30774,COSM449031	1	1
rs200889110	1	1
rs148858467	1	-1
rs7885599	1	-1
rs1885117	1	-1
rs12906081	1	-1
rs34350821	1	-1
rs2063010	1	-1
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s1073123,COSM376371	1	-1
rs10901220	1	-1
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rs12030928	1	1
s1802288,COSM375955	1	-1
rs4826996	1	1
rs1052773	1	1
rs12664472	1	1
s3800294,COSM374997	1	1
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rs35168566	1	1
rs182730993	1	-1
rs2001324	1	-1
rs7898115	1	-1
rs12254171	1	-1
77,COSM3997853,COSM	1	-1
rs3750580	1	-1
s1132079,COSM375923	1	-1
rs17634167	1	-1
rs12796222	1	1
rs1046860	1	1
rs56058201	1	-1
rs705956	1	1
rs827958	1	1
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rs753582974	1	-1
rs2839509	1	1
rs12575062	1	1
s2301914,COSM376253	1	1
rs781247113	1	-1
rs16923472	1	1
rs2734828	1	-1
rs2247238	1	1
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rs1716698	1	-1
rs220147	1	1
9,COSM1414248,COSM	1	1
rs220150	1	1
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rs373842487	1	-1
rs72836153	1	
rs62231899	1	1
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rs41277210	1	-1
s4430871,COSM413138	1	-1



VEP annotated somatic variants

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rs41279154	1		1
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rs1220622,rs112401077	1		1
rs17031260	1		1
rs55721648	1		1
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rs79238281	1		1
rs15493,COSM147800	1		-1
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rs11769825	1		1
rs13246460,COSM377429	1		-1
rs10857625	1		1
rs7079527	1		1
rs10886789,COSM147066	1		1
rs2289336	1		1
rs1652727,COSM3751576	1		1
rs1866516	1		1
rs4538426	1		1
rs41307688	1		-1
rs181113399	1		1
rs147562907	1		1
rs2527189	1		1
rs763153590,COSM43937	1		-1
rs2278128	1		-1
rs4720537	1		1
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rs910697	1		1
rs3793771,COSM367555	1		1
rs3734500	1		1
rs11068780	1		-1
rs3733979	1		1
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rs4134861	1		-1
rs114552728	1		1
rs2273739	1		-1
rs148023469	1		1
rs1106841,COSM1444742	1		-1
rs915927,COSM3756907	1		-1
rs25486	1		-1
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rs3738590	1		-1
rs2666826,COSM1472722	1		-1
rs11155787,COSM400373	1		-1
rs9484827	1		1
rs1001242	1		-1
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rs556775	1		-1
rs11774714	1		-1
rs574606000	1		1

VEP annotated somatic variants

rs139527148	1	1
rs537807113	1	1
rs2306159,COSM414434	1	-1
rs931713	1	-1
rs7781581	1	-1
rs4982766	1	-1
rs4734883	1	1
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rs1989839	1	-1
rs2301639	1	-1
rs2071258	1	1
rs95,COSM457009,COSM4	1	1
rs862708,COSM4001010	1	1
rs28444973	1	1
rs10822043	1	1
rs2910443	1	-1
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rs11666149,COSM148715	1	-1
rs384148	1	1
rs4829778	1	1
rs1055753	1	1
rs7273242	1	-1
rs8182086,COSM1375070	1	1
rs11556528	1	-1
rs9636139,COSM3757118	1	-1
rs3217340	1	-1
rs29,COSM3932977,COSM	1	-1
rs43,COSM3750292,COSM	1	-1
rs1781873,COSM4000602	1	-1
rs11710621,rs118003039	1	-1
rs1129093	1	-1
rs35215913	1	-1
rs8110062,COSM3757155	1	-1
rs12590618,COSM414783	1	1
rs489172	1	1
	1	1
rs10403445	1	1
rs781839	1	-1

VEP annotated somatic variants

<b>SYMBOL</b>	<b>SYMBOL_SOURCE</b>	<b>HGNC_ID</b>	<b>BIOTYPE</b>
AADAACL2	HGNC	24427	protein_coding
AAED1	HGNC	16881	protein_coding
AASS	HGNC	17366	protein_coding
ABCA10	HGNC	30	protein_coding
ABCA3	HGNC	33	protein_coding
ABCA6	HGNC	36	protein_coding
ABCA6	HGNC	36	protein_coding
ABCA9	HGNC	39	protein_coding
ABCC1	HGNC	51	protein_coding
ABCC6	HGNC	57	protein_coding
ABCC8	HGNC	59	protein_coding
ABHD3	HGNC	18718	protein_coding
ABR	HGNC	81	protein_coding
AC005013.5	Clone_based_vega_gene		lincRNA
AC026202.1	lone_based_ensembl_gene		protein_coding
ACAD8	HGNC	87	protein_coding
ACADM	HGNC	89	protein_coding
ACADSB	HGNC	91	protein_coding
ACBD3	HGNC	15453	protein_coding
ACER1	HGNC	18356	protein_coding
ACP2	HGNC	123	protein_coding
ACPL2	HGNC	26303	protein_coding
ACSBG1	HGNC	29567	protein_coding
ACSF3	HGNC	27288	protein_coding
ACSM4	HGNC	32016	protein_coding
ACVR2B	HGNC	174	protein_coding
ADAM15	HGNC	193	protein_coding
ADAM17	HGNC	195	protein_coding
ADAMTS14	HGNC	14899	protein_coding
ADAMTS2	HGNC	218	protein_coding
ADAMTS20	HGNC	17178	protein_coding
ADAMTS4	HGNC	220	protein_coding
ADAMTS6	HGNC	222	protein_coding
ADAMTSL1	HGNC	14632	protein_coding
ADORA1	HGNC	262	protein_coding
ADORA3	HGNC	268	protein_coding
AFAP1L2	HGNC	25901	protein_coding
AFF1	HGNC	7135	protein_coding
AFF2	HGNC	3776	protein_coding
AGAP3	HGNC	16923	protein_coding
AGBL3	HGNC	27981	protein_coding
AGTR1	HGNC	336	protein_coding
AHI1	HGNC	21575	protein_coding
AHSP	HGNC	18075	protein_coding
AIG1	HGNC	21607	protein_coding
AIM1L	HGNC	17295	protein_coding
AIM1L	HGNC	17295	protein_coding
AIPL1	HGNC	359	protein_coding
AIRE	HGNC	360	protein_coding
AIRE	HGNC	360	protein_coding
AKAP9	HGNC	379	protein_coding
AKAP9	HGNC	379	protein_coding
AKR1B10	HGNC	382	protein_coding
ALB	HGNC	399	protein_coding

VEP annotated somatic variants

ALDH16A1	HGNC	28114	protein_coding
ALDH1A3	HGNC	409	protein_coding
ALOX5	HGNC	435	protein_coding
ALPK3	HGNC	17574	protein_coding
ALPK3	HGNC	17574	protein_coding
AMICA1	HGNC	19084	protein_coding
AMICA1	HGNC	19084	protein_coding
ANAPC1	HGNC	19988	protein_coding
ANK1	HGNC	492	protein_coding
ANKAR	HGNC	26350	protein_coding
ANKK1	HGNC	21027	protein_coding
ANKLE2	HGNC	29101	protein_coding
ANKRD18B	HGNC	23644	protein_coding
ANKRD26	HGNC	29186	protein_coding
ANKRD28	HGNC	29024	protein_coding
ANKRD35	HGNC	26323	protein_coding
ANKRD52	HGNC	26614	protein_coding
ANKRD55	HGNC	25681	protein_coding
AOX1	HGNC	553	protein_coding
AP002884.2	lone_based_ensembl_gene		protein_coding
AP1B1	HGNC	554	protein_coding
AP2A1	HGNC	561	protein_coding
AP4E1	HGNC	573	protein_coding
AP4E1	HGNC	573	protein_coding
APBB1IP	HGNC	17379	protein_coding
APOOL	HGNC	24009	protein_coding
AQP12A	HGNC	19941	protein_coding
AQP12A	HGNC	19941	protein_coding
AQP4	HGNC	637	protein_coding
AQPEP	Uniprot_gn		protein_coding
ARF3	HGNC	654	protein_coding
ARHGAP10	HGNC	26099	protein_coding
ARHGAP19-SLIT1	HGNC	48348	protein_coding
ARHGAP36	HGNC	26388	protein_coding
ARHGAP4	HGNC	674	protein_coding
ARHGEF11	HGNC	14580	protein_coding
ARHGEF16	HGNC	15515	protein_coding
ARHGEF2	HGNC	682	protein_coding
ARHGEF3	HGNC	683	protein_coding
ARHGEF7	HGNC	15607	protein_coding
ARID3C	HGNC	21209	protein_coding
ARL5B	HGNC	23052	protein_coding
ARMC8	HGNC	24999	protein_coding
ARMCX4	HGNC	28615	protein_coding
ARMCX4	HGNC	28615	protein_coding
ARMCX4	HGNC	28615	protein_coding
ARMCX4	HGNC	28615	protein_coding
ARRB2	HGNC	712	protein_coding
ARRDC2	HGNC	25225	protein_coding
ARRDC2	HGNC	25225	protein_coding
ARSA	HGNC	713	protein_coding
ARVCF	HGNC	728	protein_coding
ASB10	HGNC	17185	protein_coding
ASB14	HGNC	19766	protein_coding
ASB4	HGNC	16009	protein_coding

VEP annotated somatic variants

ASB6	HGNC	17181	protein_coding
ASIC4	HGNC	21263	protein_coding
ASPSCR1	HGNC	13825	protein_coding
ASTL	HGNC	31704	protein_coding
ASTL	HGNC	31704	protein_coding
ASTN2	HGNC	17021	protein_coding
ASXL3	HGNC	29357	protein_coding
ASZ1	HGNC	1350	protein_coding
ATG4C	HGNC	16040	protein_coding
ATL1	HGNC	11231	protein_coding
ATP11A	HGNC	13552	protein_coding
ATP13A2	HGNC	30213	protein_coding
ATP1A2	HGNC	800	protein_coding
ATP1A4	HGNC	14073	protein_coding
ATP2C2	HGNC	29103	protein_coding
ATP5C1	HGNC	833	protein_coding
ATP7A	HGNC	869	protein_coding
ATP8B1	HGNC	3706	protein_coding
ATP9A	HGNC	13540	protein_coding
ATP9A	HGNC	13540	protein_coding
ATRIP	HGNC	33499	protein_coding
ATXN2L	HGNC	31326	protein_coding
AWAT1	HGNC	23252	protein_coding
AWAT2	HGNC	23251	protein_coding
AXDND1	HGNC	26564	protein_coding
AXIN1	HGNC	903	protein_coding
B3GNT3	HGNC	13528	protein_coding
BAIAP2	HGNC	947	protein_coding
BAIAP3	HGNC	948	protein_coding
BBS12	HGNC	26648	protein_coding
BCKDHA	HGNC	986	protein_coding
BCL7B	HGNC	1005	protein_coding
BCORL1	HGNC	25657	protein_coding
BEST1	HGNC	12703	protein_coding
BICD1	HGNC	1049	protein_coding
BLNK	HGNC	14211	protein_coding
BMP15	HGNC	1068	protein_coding
BNC1	HGNC	1081	protein_coding
BPIFB2	HGNC	16177	protein_coding
BPTF	HGNC	3581	protein_coding
BRCA1	HGNC	1100	protein_coding
BRCA1	HGNC	1100	protein_coding
BRCA1	HGNC	1100	protein_coding
BRCA2	HGNC	1101	protein_coding
BRD9	HGNC	25818	protein_coding
BRWD1	HGNC	12760	protein_coding
BSDC1	HGNC	25501	protein_coding
BSG	HGNC	1116	protein_coding
BSG	HGNC	1116	protein_coding
BTBD16	HGNC	26340	protein_coding
BTBD16	HGNC	26340	protein_coding
BTBD8	HGNC	21019	protein_coding
BTG1	HGNC	1130	protein_coding
BTNL9	HGNC	24176	protein_coding
BZRAP1	HGNC	16831	protein_coding

VEP annotated somatic variants

C10orf105	HGNC	20304	protein_coding
C10orf71	HGNC	26973	protein_coding
C10orf90	HGNC	26563	protein_coding
C11orf49	HGNC	28720	protein_coding
C12orf49	HGNC	26128	protein_coding
C12orf55	HGNC	26456	protein_coding
C12orf60	HGNC	28726	protein_coding
C14orf164	HGNC	20438	protein_coding
C17orf107	HGNC	37238	protein_coding
C17orf53	HGNC	28460	protein_coding
C19orf26	HGNC	28617	protein_coding
C19orf33	HGNC	16668	protein_coding
C1GALT1C1	HGNC	24338	protein_coding
C1orf101	HGNC	28491	protein_coding
C1orf141	HGNC	32044	protein_coding
C1orf168	HGNC	27295	protein_coding
C1orf173	HGNC	25346	protein_coding
C1QTNF1	HGNC	14324	protein_coding
C2orf54	HGNC	26216	protein_coding
C2orf81	HGNC	34350	protein_coding
C3	HGNC	1318	protein_coding
C4orf29	HGNC	26111	protein_coding
C5	HGNC	1331	protein_coding
C5	HGNC	1331	protein_coding
C6orf201	HGNC	21620	protein_coding
C7	HGNC	1346	protein_coding
CA10	HGNC	1369	protein_coding
CA5A	HGNC	1377	protein_coding
CABIN1	HGNC	24187	protein_coding
CACNA1A	HGNC	1388	protein_coding
CACNA1B	HGNC	1389	protein_coding
CACNA1C	HGNC	1390	protein_coding
CACNA2D2	HGNC	1400	protein_coding
CACNA2D2	HGNC	1400	protein_coding
CACNB2	HGNC	1402	protein_coding
CAGE1	HGNC	21622	protein_coding
CALD1	HGNC	1441	protein_coding
CALR	HGNC	1455	protein_coding
CAMK1D	HGNC	19341	protein_coding
CAMK2D	HGNC	1462	protein_coding
CAMKMT	HGNC	26276	protein_coding
CAMSAP3	HGNC	29307	protein_coding
CAPN11	HGNC	1478	protein_coding
CAPN9	HGNC	1486	protein_coding
CAPS	HGNC	1487	protein_coding
CARD10	HGNC	16422	protein_coding
CARD8	HGNC	17057	protein_coding
CASP14	HGNC	1502	protein_coding
CASQ1	HGNC	1512	protein_coding
CASZ1	HGNC	26002	protein_coding
CATSPERG	HGNC	25243	protein_coding
CAV3	HGNC	1529	protein_coding
CCDC102A	HGNC	28097	protein_coding
CCDC104	HGNC	30540	protein_coding
CCDC105	HGNC	26866	protein_coding

VEP annotated somatic variants

CCDC11	HGNC	26530	protein_coding
CCDC120	HGNC	28910	protein_coding
CCDC132	HGNC	25956	protein_coding
CCDC137	HGNC	33451	protein_coding
CCDC147	HGNC	26676	protein_coding
CCDC158	HGNC	26374	protein_coding
CCDC169-SOHLH2	HGNC	38866	protein_coding
CCDC18	HGNC	30370	protein_coding
CCDC57	HGNC	27564	protein_coding
CCDC6	HGNC	18782	protein_coding
CCDC81	HGNC	26281	protein_coding
CCL19	HGNC	10617	protein_coding
CCR2	HGNC	1603	protein_coding
CD109	HGNC	21685	protein_coding
CD200R1L	HGNC	24665	protein_coding
CD244	HGNC	18171	protein_coding
CD300A	HGNC	19319	protein_coding
CD3EAP	HGNC	24219	protein_coding
CD46	HGNC	6953	protein_coding
CD7	HGNC	1695	protein_coding
CDC23	HGNC	1724	protein_coding
CDC42BPG	HGNC	29829	protein_coding
CDC45	HGNC	1739	protein_coding
CDCP1	HGNC	24357	protein_coding
CDH18	HGNC	1757	protein_coding
CDK19	HGNC	19338	protein_coding
CDK3	HGNC	1772	protein_coding
CDK7	HGNC	1778	protein_coding
CDKAL1	HGNC	21050	protein_coding
CDKL5	HGNC	11411	protein_coding
CDS2	HGNC	1801	protein_coding
CDSN	HGNC	1802	protein_coding
CDSN	HGNC	1802	protein_coding
CEACAM21	HGNC	28834	protein_coding
CEACAM3	HGNC	1815	protein_coding
CECR1	HGNC	1839	protein_coding
CECR2	HGNC	1840	protein_coding
CECR2	HGNC	1840	protein_coding
CECR5	HGNC	1843	protein_coding
CECR6	HGNC	1844	protein_coding
CENPI	HGNC	3968	protein_coding
CENPW	HGNC	21488	protein_coding
CEP250	HGNC	1859	protein_coding
CEP250	HGNC	1859	protein_coding
CEP63	HGNC	25815	protein_coding
CEP63	HGNC	25815	protein_coding
CEP70	HGNC	29972	protein_coding
CEP95	HGNC	25141	protein_coding
CERCAM	HGNC	23723	protein_coding
CES2	HGNC	1864	protein_coding
CFH	HGNC	4883	protein_coding
CFTR	HGNC	1884	protein_coding
CGB7	HGNC	16451	protein_coding
CHD1L	HGNC	1916	protein_coding
CHFR	HGNC	20455	protein_coding

VEP annotated somatic variants

CHFR	HGNC	20455	protein_coding
CHI3L2	HGNC	1933	protein_coding
CHRNA1	HGNC	1961	protein_coding
CHST14	HGNC	24464	protein_coding
CIITA	HGNC	7067	protein_coding
CINP	HGNC	23789	protein_coding
CIT	HGNC	1985	protein_coding
CITED1	HGNC	1986	protein_coding
CKMT2	HGNC	1996	protein_coding
CLCN6	HGNC	2024	protein_coding
CLCNKA	HGNC	2026	protein_coding
CLDN15	HGNC	2036	protein_coding
CLEC4E	HGNC	14555	protein_coding
CLIC2	HGNC	2063	protein_coding
CLIC4	HGNC	13518	protein_coding
CLIP1	HGNC	10461	protein_coding
CLIP4	HGNC	26108	protein_coding
CNKSR2	HGNC	19701	protein_coding
CNNM1	HGNC	102	protein_coding
CNOT1	HGNC	7877	protein_coding
CNOT11	HGNC	25217	protein_coding
CNR1	HGNC	2159	protein_coding
CNTN4	HGNC	2174	protein_coding
CNTNAP2	HGNC	13830	protein_coding
CNTNAP2	HGNC	13830	protein_coding
CNTRL	HGNC	1858	protein_coding
COBL	HGNC	22199	protein_coding
COG4	HGNC	18620	protein_coding
COG5	HGNC	14857	protein_coding
COL17A1	HGNC	2194	protein_coding
COL23A1	HGNC	22990	protein_coding
COL24A1	HGNC	20821	protein_coding
COL24A1	HGNC	20821	protein_coding
COL26A1	HGNC	18038	protein_coding
COL4A6	HGNC	2208	protein_coding
COL5A3	HGNC	14864	protein_coding
COL6A1	HGNC	2211	protein_coding
COL6A3	HGNC	2213	protein_coding
COMT	HGNC	2228	protein_coding
COX20	HGNC	26970	protein_coding
CP	HGNC	2295	protein_coding
CPEB1	HGNC	21744	protein_coding
CPEB4	HGNC	21747	protein_coding
CR2	HGNC	2336	protein_coding
CRB2	HGNC	18688	protein_coding
CRHR2	HGNC	2358	protein_coding
CRIM1	HGNC	2359	protein_coding
CRIM1	HGNC	2359	protein_coding
CRISP3	HGNC	16904	protein_coding
CRNKL1	HGNC	15762	protein_coding
CRTC3	HGNC	26148	protein_coding
CRYBG3	HGNC	34427	protein_coding
CRYBG3	Uniprot_gn	34427	protein_coding
CSAG1	HGNC	24294	protein_coding
CSNK2A1	HGNC	2457	protein_coding



VEP annotated somatic variants

CSPG4	HGNC	2466	protein_coding
CTCF	HGNC	16234	protein_coding
CTD-3088G3.8	Clone_based_vega_gene		protein_coding
CTNNA3	HGNC	2511	protein_coding
CTNNAL1	HGNC	2512	protein_coding
CUBN	HGNC	2548	protein_coding
CUL2	HGNC	2552	protein_coding
CUL7	HGNC	21024	protein_coding
CUX1	HGNC	2557	protein_coding
CUX1	HGNC	2557	protein_coding
CWC22	HGNC	29322	protein_coding
CWC22	HGNC	29322	protein_coding
CWF19L2	HGNC	26508	protein_coding
CXCR3	HGNC	4540	protein_coding
CYB561A3	HGNC	23014	protein_coding
CYB5R2	HGNC	24376	protein_coding
CYP2A13	HGNC	2608	protein_coding
CYP2A13	HGNC	2608	protein_coding
CYP3A4	HGNC	2637	protein_coding
CYP4F12	HGNC	18857	protein_coding
CYP51A1	HGNC	2649	protein_coding
DAGLA	HGNC	1165	protein_coding
DARS	HGNC	2678	protein_coding
DBR1	HGNC	15594	protein_coding
DCAF15	HGNC	25095	protein_coding
DCAF15	HGNC	25095	protein_coding
DCAF15	HGNC	25095	protein_coding
DCC	HGNC	2701	protein_coding
DCDC2	HGNC	18141	protein_coding
DCHS2	HGNC	23111	protein_coding
DCTD	HGNC	2710	protein_coding
DDX11	HGNC	2736	protein_coding
DDX11	HGNC	2736	protein_coding
DDX59	HGNC	25360	protein_coding
DENND1A	HGNC	29324	protein_coding
DENND5A	HGNC	19344	protein_coding
DEPDC1B	HGNC	24902	protein_coding
DGCR2	HGNC	2845	protein_coding
DGKB	HGNC	2850	protein_coding
DHRS3	HGNC	17693	protein_coding
DHX32	HGNC	16717	protein_coding
DHX37	HGNC	17210	protein_coding
DHX8	HGNC	2749	protein_coding
DHX8	HGNC	2749	protein_coding
DHX8	HGNC	2749	protein_coding
DIAPH1	HGNC	2876	protein_coding
DIP2B	HGNC	29284	protein_coding
DIS3L	HGNC	28698	protein_coding
DISC1	HGNC	2888	protein_coding
DISC1	HGNC	2888	protein_coding
DKK4	HGNC	2894	protein_coding
DLG2	HGNC	2901	protein_coding
DLG3	HGNC	2902	protein_coding
DLG5	HGNC	2904	protein_coding
DLK2	HGNC	21113	protein_coding

VEP annotated somatic variants

DMKN	HGNC	25063	protein_coding
DNA2	HGNC	2939	protein_coding
DNAH11	HGNC	2942	protein_coding
DNAH12	HGNC	2943	protein_coding
DNAH14	HGNC	2945	protein_coding
DNAH14	HGNC	2945	protein_coding
DNAH14	HGNC	2945	protein_coding
DNAH14	HGNC	2945	protein_coding
DNAH14	HGNC	2945	protein_coding
DNAH17	HGNC	2946	protein_coding
DNAH8	HGNC	2952	protein_coding
DNAH9	HGNC	2953	protein_coding
DNALI1	HGNC	14353	protein_coding
DNASE2B	HGNC	28875	protein_coding
DNMBP	HGNC	30373	protein_coding
DOCK2	HGNC	2988	protein_coding
DOCK3	HGNC	2989	protein_coding
DOT1L	HGNC	24948	protein_coding
DPEP1	HGNC	3002	protein_coding
DPF1	HGNC	20225	protein_coding
DPH5	HGNC	24270	protein_coding
DPY19L2	HGNC	19414	protein_coding
DRAXIN	HGNC	25054	protein_coding
DRP2	HGNC	3032	protein_coding
DRP2	HGNC	3032	protein_coding
DRP2	HGNC	3032	protein_coding
DSCAML1	HGNC	14656	protein_coding
DSG3	HGNC	3050	protein_coding
DSG4	HGNC	21307	protein_coding
DSG4	HGNC	21307	protein_coding
DSP	HGNC	3052	protein_coding
DST	HGNC	1090	protein_coding
DTD2	HGNC	20277	protein_coding
DTNBP1	HGNC	17328	protein_coding
DTWD2	HGNC	19334	protein_coding
DTX2	HGNC	15973	protein_coding
DUSP18	HGNC	18484	protein_coding
DUSP6	HGNC	3072	protein_coding
DYNC111	HGNC	2963	protein_coding
DYNC2H1	HGNC	2962	protein_coding
EBNA1BP2	HGNC	15531	protein_coding
EBP	HGNC	3133	protein_coding
ECE1	HGNC	3146	protein_coding
ECEL1	HGNC	3147	protein_coding
ECT2	HGNC	3155	protein_coding
ECT2L	HGNC	21118	protein_coding
EDEM3	HGNC	16787	protein_coding
EDN1	HGNC	3176	protein_coding
EDNRB	HGNC	3180	protein_coding
EEA1	HGNC	3185	protein_coding
EEF1A2	HGNC	3192	protein_coding
EEF1E1	HGNC	3212	protein_coding
EFCAB13	HGNC	26864	protein_coding
EFCAB3	HGNC	26379	protein_coding
EFCAB4B	HGNC	28657	protein_coding

VEP annotated somatic variants

EFHB	HGNC	26330	protein_coding
EFTUD1	HGNC	25789	protein_coding
EFTUD2	HGNC	30858	protein_coding
EIF2S3	HGNC	3267	protein_coding
ELF4	HGNC	3319	protein_coding
ELFN2	HGNC	29396	protein_coding
ELFN2	HGNC	29396	protein_coding
ELFN2	HGNC	29396	protein_coding
ELN	HGNC	3327	protein_coding
ELOVL2	HGNC	14416	protein_coding
EMC1	HGNC	28957	protein_coding
EMC2	HGNC	28963	protein_coding
EMC2	HGNC	28963	protein_coding
EML1	HGNC	3330	protein_coding
EML1	HGNC	3330	protein_coding
EML1	HGNC	3330	protein_coding
EN1	HGNC	3342	protein_coding
ENG	HGNC	3349	protein_coding
ENOX1	HGNC	25474	protein_coding
ENTPD1	HGNC	3363	protein_coding
ENTPD5	HGNC	3367	protein_coding
EP400	HGNC	11958	protein_coding
EPHB6	HGNC	3396	protein_coding
EPHX1	HGNC	3401	protein_coding
EPHX2	HGNC	3402	protein_coding
ERN1	HGNC	3449	protein_coding
ESPL1	HGNC	16856	protein_coding
ESYT3	HGNC	24295	protein_coding
ETFA	HGNC	3481	protein_coding
ETFB	HGNC	3482	protein_coding
ETHE1	HGNC	23287	protein_coding
EVI5	HGNC	3501	protein_coding
EVI5L	HGNC	30464	protein_coding
EVI5L	HGNC	30464	protein_coding
EVPL	HGNC	3503	protein_coding
EVPL	HGNC	3503	protein_coding
EXD2	HGNC	20217	protein_coding
EXO1	HGNC	3511	protein_coding
EXOC1	HGNC	30380	protein_coding
EZR	HGNC	12691	protein_coding
F8	HGNC	3546	protein_coding
F8	HGNC	3546	protein_coding
F9	HGNC	3551	protein_coding
FAAH2	HGNC	26440	protein_coding
FADS2	HGNC	3575	protein_coding
FADS3	HGNC	3576	protein_coding
FAH	HGNC	3579	protein_coding
FAM118A	HGNC	1313	protein_coding
FAM122C	HGNC	25202	protein_coding
FAM122C	HGNC	25202	protein_coding
FAM127C	HGNC	33156	protein_coding
FAM127C	HGNC	33156	protein_coding
FAM135B	HGNC	28029	protein_coding
FAM162B	HGNC	21549	protein_coding
FAM168A	HGNC	28999	protein_coding

VEP annotated somatic variants

FAM181B	HGNC	28512	protein_coding
FAM184B	HGNC	29235	protein_coding
FAM186A	HGNC	26980	protein_coding
FAM187B	HGNC	26366	protein_coding
FAM189B	HGNC	1233	protein_coding
FAM21C	HGNC	23414	protein_coding
FAM63A	HGNC	25648	protein_coding
FAM65B	HGNC	13872	protein_coding
FAM81B	HGNC	26335	protein_coding
FANCA	HGNC	3582	protein_coding
FANCE	HGNC	3586	protein_coding
FANCE	HGNC	3586	protein_coding
FANCE	HGNC	3586	protein_coding
FAR2	HGNC	25531	protein_coding
FARP2	HGNC	16460	protein_coding
FARP2	HGNC	16460	protein_coding
FASN	HGNC	3594	protein_coding
FASN	HGNC	3594	protein_coding
FASN	HGNC	3594	protein_coding
FASN	HGNC	3594	protein_coding
FBLN2	HGNC	3601	protein_coding
FBN3	HGNC	18794	protein_coding
FBRSL1	HGNC	29308	protein_coding
FBXL21	HGNC	13600	retained_intron
FBXO10	HGNC	13589	protein_coding
FBXO10	HGNC	13589	protein_coding
FBXO17	HGNC	18754	protein_coding
FBXW12	HGNC	20729	protein_coding
FBXW4	HGNC	10847	protein_coding
FCAMR	HGNC	24692	protein_coding
FCHO1	HGNC	29002	protein_coding
FGFR4	HGNC	3691	protein_coding
FGG	HGNC	3694	protein_coding
FHOD3	HGNC	26178	protein_coding
FHOD3	HGNC	26178	protein_coding
FHOD3	HGNC	26178	protein_coding
FIGN	HGNC	13285	protein_coding
FIP1L1	HGNC	19124	protein_coding
FKBP6	HGNC	3722	protein_coding
FKBP7	HGNC	3723	protein_coding
FLNA	HGNC	3754	protein_coding
FLNB	HGNC	3755	protein_coding
FLT4	HGNC	3767	protein_coding
FMN2	HGNC	14074	protein_coding
FMN2	HGNC	14074	protein_coding
FMO3	HGNC	3771	protein_coding
FNBP4	HGNC	19752	protein_coding
FNBP4	HGNC	19752	protein_coding
FNDC1	HGNC	21184	protein_coding
FNDC1	HGNC	21184	protein_coding
FOXF2	HGNC	3810	protein_coding
FOXP4	HGNC	20842	protein_coding
FPGS	HGNC	3824	protein_coding
FRAS1	HGNC	19185	protein_coding
FRAS1	HGNC	19185	protein_coding

## VEP annotated somatic variants

FRAS1	HGNC	19185	protein_coding
FRAS1	HGNC	19185	protein_coding
FRAS1	HGNC	19185	protein_coding
FREM3	HGNC	25172	protein_coding
FRMD4A	HGNC	25491	protein_coding
FSIP1	HGNC	21674	protein_coding
FSTL5	HGNC	21386	protein_coding
FUBP3	HGNC	4005	protein_coding
FUT1	HGNC	4012	protein_coding
FUT6	HGNC	4017	protein_coding
FXYD2	HGNC	4026	protein_coding
FYCO1	HGNC	14673	protein_coding
GADL1	HGNC	27949	protein_coding
GAK	HGNC	4113	protein_coding
GAK	HGNC	4113	protein_coding
GALC	HGNC	4115	protein_coding
GALC	HGNC	4115	protein_coding
GALK1	HGNC	4118	protein_coding
GALNT10	HGNC	19873	protein_coding
GALNT14	HGNC	22946	protein_coding
GALNT8	HGNC	4130	protein_coding
GALNT8	HGNC	4130	protein_coding
GAREM	HGNC	26136	protein_coding
GAREM	HGNC	26136	protein_coding
GAREM	HGNC	26136	protein_coding
GARNL3	HGNC	25425	protein_coding
GBP5	HGNC	19895	protein_coding
GBP5	HGNC	19895	protein_coding
GBP5	HGNC	19895	protein_coding
GCGR	HGNC	4192	protein_coding
GCNT2	HGNC	4204	protein_coding
GDA	HGNC	4212	protein_coding
GDAP1L1	HGNC	4213	protein_coding
GDF2	HGNC	4217	protein_coding
GEMIN2	HGNC	10884	protein_coding
GFM1	HGNC	13780	protein_coding
GGCX	HGNC	4247	protein_coding
GGN	HGNC	18869	protein_coding
GGN	HGNC	18869	protein_coding
GHDC	HGNC	24438	protein_coding
GINM1	HGNC	21074	protein_coding
GINS1	HGNC	28980	protein_coding
GLG1	HGNC	4316	protein_coding
GLG1	HGNC	4316	protein_coding
GLIS2	HGNC	29450	protein_coding
GLO1	HGNC	4323	protein_coding
GLRA4	HGNC	31715	protein_coding
GLRA4	HGNC	31715	protein_coding
GLT8D2	HGNC	24890	protein_coding
GLYATL2	HGNC	24178	protein_coding
GMCL1	HGNC	23843	protein_coding
GNAZ	HGNC	4395	protein_coding
GNB1L	HGNC	4397	protein_coding
GNRHR	HGNC	4421	protein_coding
GOLGA3	HGNC	4426	protein_coding

VEP annotated somatic variants

GP1BA	HGNC	4439	protein_coding
GPC6	HGNC	4454	protein_coding
GPLD1	HGNC	4459	protein_coding
GPM6B	HGNC	4461	protein_coding
GPN1	HGNC	17030	protein_coding
GPR101	HGNC	14963	protein_coding
GPR123	HGNC	13838	protein_coding
GPR123	HGNC	13838	protein_coding
GPR123	HGNC	13838	protein_coding
GPR123	HGNC	13838	protein_coding
GPR176	HGNC	32370	protein_coding
GRAMD1B	HGNC	29214	protein_coding
GRAMD1C	HGNC	25252	protein_coding
GRAMD4	HGNC	29113	protein_coding
GRAMD4	HGNC	29113	protein_coding
GRAMD4	HGNC	29113	protein_coding
GREB1	HGNC	24885	protein_coding
GRIA1	HGNC	4571	protein_coding
GRIA2	HGNC	4572	protein_coding
GRIA3	HGNC	4573	protein_coding
GRM7	HGNC	4599	protein_coding
GSE1	HGNC	28979	protein_coding
GSN	HGNC	4620	protein_coding
GSPT2	HGNC	4622	protein_coding
GSTP1	HGNC	4638	protein_coding
GSTZ1	HGNC	4643	protein_coding
GTPBP4	HGNC	21535	protein_coding
GTPBP4	HGNC	21535	protein_coding
GUCY2F	HGNC	4691	protein_coding
GXYLT2	HGNC	33383	protein_coding
HAL	HGNC	4806	protein_coding
HAMP	HGNC	15598	protein_coding
HDAC7	HGNC	14067	protein_coding
HDAC7	HGNC	14067	protein_coding
HDAC9	HGNC	14065	protein_coding
HDDC2	HGNC	21078	protein_coding
HDHD1	HGNC	16818	protein_coding
HEATR1	HGNC	25517	protein_coding
HEATR1	HGNC	25517	protein_coding
HEATR1	HGNC	25517	protein_coding
HEATR2	HGNC	26013	protein_coding
HECTD1	HGNC	20157	protein_coding
HECTD1	HGNC	20157	protein_coding
HELLS	HGNC	4861	protein_coding
HELLS	HGNC	4861	protein_coding
HEMK1	HGNC	24923	protein_coding
HERC1	HGNC	4867	protein_coding
HFE	HGNC	4886	protein_coding
HGF	HGNC	4893	protein_coding
HHATL	HGNC	13242	protein_coding
HHIPL1	HGNC	19710	protein_coding
HIGD1B	HGNC	24318	protein_coding
HINT1	HGNC	4912	protein_coding
HIST1H2BF	HGNC	4752	protein_coding
HIST1H3D	HGNC	4767	protein_coding

VEP annotated somatic variants

HIST1H4B	HGNC	4789	protein_coding
HKDC1	HGNC	23302	protein_coding
HLA-DPB1	HGNC	4940	protein_coding
HLCS	HGNC	4976	protein_coding
HLTF	HGNC	11099	protein_coding
HMBS	HGNC	4982	protein_coding
HMGXB4	HGNC	5003	protein_coding
HMGXB4	HGNC	5003	protein_coding
HNF1A	HGNC	11621	protein_coding
HNRNPUL1	HGNC	17011	protein_coding
HOOK2	HGNC	19885	protein_coding
HPN	HGNC	5155	protein_coding
HPS6	HGNC	18817	protein_coding
HSPB6	HGNC	26511	protein_coding
HTR5A	HGNC	5300	protein_coding
HUWE1	HGNC	30892	protein_coding
HUWE1	HGNC	30892	protein_coding
ICOSLG	HGNC	17087	protein_coding
ICOSLG	HGNC	17087	protein_coding
ICOSLG	HGNC	17087	protein_coding
IDH2	HGNC	5383	protein_coding
IDH3A	HGNC	5384	protein_coding
IFI16	HGNC	5395	protein_coding
IFNAR2	HGNC	5433	protein_coding
IGF1R	HGNC	5465	protein_coding
IGF2R	HGNC	5467	protein_coding
IGF2R	HGNC	5467	protein_coding
IGF2R	HGNC	5467	protein_coding
IGLON5	HGNC	34550	protein_coding
IGSF1	HGNC	5948	protein_coding
IGSF1	HGNC	5948	protein_coding
IGSF1	HGNC	5948	protein_coding
IGSF11	HGNC	16669	protein_coding
IGSF11	HGNC	16669	protein_coding
IGSF11	HGNC	16669	protein_coding
IGSF22	HGNC	26750	protein_coding
IGSF9B	HGNC	32326	protein_coding
IKBKAP	HGNC	5959	protein_coding
IL17RC	HGNC	18358	protein_coding
IL20RA	HGNC	6003	protein_coding
IL22RA1	HGNC	13700	protein_coding
IL2RA	HGNC	6008	protein_coding
INO80E	HGNC	26905	protein_coding
INS	HGNC	6081	protein_coding
INS-IGF2	HGNC	33527	protein_coding
INSR	HGNC	6091	protein_coding
INSR	HGNC	6091	protein_coding
INTS1	HGNC	24555	protein_coding
INTS1	HGNC	24555	protein_coding
INTS6	HGNC	14879	protein_coding
IQGAP2	HGNC	6111	protein_coding
IQGAP3	HGNC	20669	protein_coding
IQSEC3	HGNC	29193	protein_coding
IRF5	HGNC	6120	protein_coding
IRGC	HGNC	28835	protein_coding

VEP annotated somatic variants

ITGA10	HGNC	6135	protein_coding
ITGA10	HGNC	6135	protein_coding
ITGA4	HGNC	6140	protein_coding
ITGA9	HGNC	6145	protein_coding
ITIH4	HGNC	6169	protein_coding
ITIH4	HGNC	6169	protein_coding
ITIH4	HGNC	6169	protein_coding
ITM2A	HGNC	6173	protein_coding
ITPKB	HGNC	6179	protein_coding
ITPR2	HGNC	6181	protein_coding
ITPR2	HGNC	6181	protein_coding
ITPR3	HGNC	6182	protein_coding
ITPRIP	HGNC	29370	protein_coding
ITSN1	HGNC	6183	protein_coding
ITSN1	HGNC	6183	protein_coding
JADE1	HGNC	30027	protein_coding
JADE3	HGNC	22982	protein_coding
JAKMIP3	HGNC	23523	protein_coding
JARID2	HGNC	6196	protein_coding
JARID2	HGNC	6196	protein_coding
JARID2	HGNC	6196	protein_coding
JRKL	HGNC	6200	protein_coding
KANK1	HGNC	19309	protein_coding
KANK4	HGNC	27263	protein_coding
KANK4	HGNC	27263	protein_coding
KANK4	HGNC	27263	protein_coding
KATNA1	HGNC	6216	protein_coding
KCNA7	HGNC	6226	protein_coding
KCNAB1	HGNC	6228	protein_coding
KCNU1	HGNC	18867	protein_coding
KCP	HGNC	17585	processed_transcript
KCTD10	HGNC	23236	protein_coding
KCTD4	HGNC	23227	protein_coding
KDM3B	HGNC	1337	protein_coding
KDM4A	HGNC	22978	protein_coding
KDM4B	HGNC	29136	protein_coding
KDM5D	HGNC	11115	protein_coding
KDM6A	HGNC	12637	protein_coding
KDM7A	HGNC	22224	protein_coding
KDM7A	HGNC	22224	protein_coding
KDM7A	HGNC	22224	protein_coding
KIAA0930	HGNC	1314	protein_coding
KIAA1109	HGNC	26953	protein_coding
KIAA1244	HGNC	21213	protein_coding
KIAA1429	HGNC	24500	protein_coding
KIAA1683	HGNC	29350	protein_coding
KIAA1919	HGNC	21053	protein_coding
KIF14	HGNC	19181	protein_coding
KIF17	HGNC	19167	protein_coding
KIF19	HGNC	26735	protein_coding
KIF1A	HGNC	888	protein_coding
KIF1C	HGNC	6317	protein_coding
KIF20B	HGNC	7212	protein_coding
KIFAP3	HGNC	17060	protein_coding
KIN	HGNC	6327	protein_coding



VEP annotated somatic variants

KLF10	HGNC	11810	protein_coding
KLHL2	HGNC	6353	protein_coding
KLHL8	HGNC	18644	protein_coding
KLRG1	HGNC	6380	protein_coding
KMT2C	HGNC	13726	protein_coding
KNDC1	HGNC	29374	protein_coding
KNTC1	HGNC	17255	protein_coding
KPNA7	HGNC	21839	protein_coding
KPNB1	HGNC	6400	protein_coding
KREMEN1	HGNC	17550	protein_coding
KRT10	HGNC	6413	protein_coding
KRT32	HGNC	6449	protein_coding
KRT36	HGNC	6454	protein_coding
KRTAP10-9	HGNC	22971	protein_coding
KRTAP12-3	HGNC	20531	protein_coding
KRTAP12-4	HGNC	20532	protein_coding
L3MBTL2	HGNC	18594	protein_coding
LAMA2	HGNC	6482	protein_coding
LAMA2	HGNC	6482	protein_coding
LAMA4	HGNC	6484	protein_coding
LAMA4	HGNC	6484	protein_coding
LAMC1	HGNC	6492	protein_coding
LAMC1	HGNC	6492	protein_coding
LAMC1	HGNC	6492	protein_coding
LAMC2	HGNC	6493	protein_coding
LATS1	HGNC	6514	protein_coding
LCE3C	HGNC	16612	protein_coding
LCN8	HGNC	27038	protein_coding
LDLRAD2	HGNC	32071	protein_coding
LEMD3	HGNC	28887	protein_coding
LFNG	HGNC	6560	protein_coding
LILRA4	HGNC	15503	protein_coding
LIMK1	HGNC	6613	protein_coding
LINGO3	HGNC	21206	protein_coding
LMBR1L	HGNC	18268	protein_coding
LMO7	HGNC	6646	protein_coding
LNPEP	HGNC	6656	protein_coding
LONRF1	HGNC	26302	protein_coding
LONRF3	HGNC	21152	protein_coding
LONRF3	HGNC	21152	protein_coding
LOXL1	HGNC	6665	protein_coding
LPP	HGNC	6679	protein_coding
LRMP	HGNC	6690	protein_coding
LRP1B	HGNC	6693	protein_coding
LRP5	HGNC	6697	protein_coding
LRP5L	HGNC	25323	protein_coding
LRP5L	HGNC	25323	protein_coding
LRPAP1	HGNC	6701	protein_coding
LRR1	HGNC	19742	protein_coding
LRRC18	HGNC	23199	protein_coding
LRRCC1	HGNC	29373	protein_coding
LRRIQ1	HGNC	25708	protein_coding
LSG1	HGNC	25652	protein_coding
LSM14A	HGNC	24489	protein_coding
LSM6	HGNC	17017	protein_coding

VEP annotated somatic variants

LSS	HGNC	6708	protein_coding
LTN1	HGNC	13082	protein_coding
LUZP2	HGNC	23206	protein_coding
LYPD4	HGNC	28659	protein_coding
LYSMD1	HGNC	32070	protein_coding
LZTS2	HGNC	29381	protein_coding
LZTS2	HGNC	29381	protein_coding
MAD1L1	HGNC	6762	protein_coding
MAD2L1	HGNC	6763	protein_coding
MAGEA1	HGNC	6796	protein_coding
MAGEA12	HGNC	6799	protein_coding
MAGEB4	HGNC	6811	protein_coding
MAGEC1	HGNC	6812	protein_coding
MAGEC2	HGNC	13574	protein_coding
MAGED2	HGNC	16353	protein_coding
MAMDC4	HGNC	24083	protein_coding
MAMLD1	HGNC	2568	protein_coding
MAN1A1	HGNC	6821	protein_coding
MAN2A1	HGNC	6824	protein_coding
MAN2B2	HGNC	29623	protein_coding
MAP1S	HGNC	15715	protein_coding
MAP3K15	HGNC	31689	protein_coding
MAP3K3	HGNC	6855	protein_coding
MAP4K1	HGNC	6863	protein_coding
MAP4K4	HGNC	6866	protein_coding
MAPKAPK3	HGNC	6888	protein_coding
MAST1	HGNC	19034	protein_coding
MAST1	HGNC	19034	protein_coding
MAST4	HGNC	19037	protein_coding
MATN4	HGNC	6910	protein_coding
MCCC1	HGNC	6936	protein_coding
MCM3AP	HGNC	6946	protein_coding
MDGA1	HGNC	19267	protein_coding
MDN1	HGNC	18302	protein_coding
MDN1	HGNC	18302	protein_coding
MECP2	HGNC	6990	protein_coding
MED14	HGNC	2370	protein_coding
MED22	HGNC	11477	protein_coding
MED25	HGNC	28845	protein_coding
MED29	HGNC	23074	protein_coding
MEF2B	HGNC	6995	protein_coding
MEGF6	HGNC	3232	protein_coding
MEP1B	HGNC	7020	protein_coding
MERTK	HGNC	7027	protein_coding
METTL3	HGNC	17563	protein_coding
METTL8	HGNC	25856	protein_coding
MFSD12	HGNC	28299	protein_coding
MGAT5B	HGNC	24140	protein_coding
MGAT5B	HGNC	24140	protein_coding
MGAT5B	HGNC	24140	protein_coding
MGMT	HGNC	7059	protein_coding
MICAL3	HGNC	24694	protein_coding
MICAL3	HGNC	24694	protein_coding
MICAL3	HGNC	24694	protein_coding
MID1	HGNC	7095	protein_coding

VEP annotated somatic variants

MINK1	HGNC	17565	protein_coding
MINK1	HGNC	17565	protein_coding
MLEC	HGNC	28973	protein_coding
MLK4	Uniprot_gn		protein_coding
MLLT1	HGNC	7134	protein_coding
MMP21	HGNC	14357	protein_coding
MNX1	HGNC	4979	protein_coding
MOB3A	HGNC	29802	protein_coding
MORC4	HGNC	23485	protein_coding
MORC4	HGNC	23485	protein_coding
MORF4L1	HGNC	16989	protein_coding
MPZL3	HGNC	27279	protein_coding
MRE11A	HGNC	7230	protein_coding
MROH7	HGNC	24802	protein_coding
MROH7	HGNC	24802	protein_coding
MROH7	HGNC	24802	protein_coding
MRPL10	HGNC	14055	protein_coding
MRPL41	HGNC	14492	protein_coding
MRPL43	HGNC	14517	protein_coding
MRPS10	HGNC	14502	protein_coding
MRVI1	HGNC	7237	protein_coding
MSH2	HGNC	7325	protein_coding
MSMO1	HGNC	10545	protein_coding
MTOR	HGNC	3942	protein_coding
MTR	HGNC	7468	protein_coding
MTR	HGNC	7468	protein_coding
MTR	HGNC	7468	protein_coding
MTR	HGNC	7468	protein_coding
MTTP	HGNC	7467	protein_coding
MUC16	HGNC	15582	protein_coding
MUC16	HGNC	15582	protein_coding
MUC19	HGNC	14362	protein_coding
MUC19	HGNC	14362	protein_coding
MUC2	HGNC	7512	protein_coding
MVD	HGNC	7529	protein_coding
MXRA5	HGNC	7539	protein_coding
MYADML2	HGNC	34548	protein_coding
MYBPC3	HGNC	7551	protein_coding
MYH11	HGNC	7569	protein_coding
MYH15	HGNC	31073	protein_coding
MYH7	HGNC	7577	protein_coding
MYH7	HGNC	7577	protein_coding
MYH7	HGNC	7577	protein_coding
MYH9	HGNC	7579	protein_coding
MYLK	HGNC	7590	protein_coding
MYO15A	HGNC	7594	protein_coding
MYO18B	HGNC	18150	protein_coding
MYO19	HGNC	26234	protein_coding
MYO1F	HGNC	7600	protein_coding
MYO5A	HGNC	7602	protein_coding
MYO9B	HGNC	7609	protein_coding
MYOG	HGNC	7612	protein_coding
MYPN	HGNC	23246	protein_coding
MYRF	HGNC	1181	protein_coding
MYSM1	HGNC	29401	protein_coding

VEP annotated somatic variants

NAA35	HGNC	24340	protein_coding
NACC2	HGNC	23846	protein_coding
NAGPA	HGNC	17378	protein_coding
NAPSA	HGNC	13395	protein_coding
NAT9	HGNC	23133	protein_coding
NBAS	HGNC	15625	protein_coding
NBR1	HGNC	6746	protein_coding
NBR1	HGNC	6746	protein_coding
NBR1	HGNC	6746	protein_coding
NBR1	HGNC	6746	protein_coding
NCAN	HGNC	2465	protein_coding
NCAPD2	HGNC	24305	protein_coding
NCAPD3	HGNC	28952	protein_coding
NCAPH	HGNC	1112	protein_coding
NCOA6	HGNC	15936	protein_coding
NCOR1	HGNC	7672	protein_coding
NDUFS2	HGNC	7708	protein_coding
NEB	HGNC	7720	protein_coding
NEB	HGNC	7720	protein_coding
NEB	HGNC	7720	protein_coding
NELFA	HGNC	12768	protein_coding
NENF	HGNC	30384	protein_coding
NENF	HGNC	30384	protein_coding
NEXN	HGNC	29557	protein_coding
NFKB1	HGNC	7794	protein_coding
NFKB2	HGNC	7795	protein_coding
NFKBIZ	HGNC	29805	protein_coding
NHLRC1	HGNC	21576	protein_coding
NHSL1	HGNC	21021	protein_coding
NID1	HGNC	7821	protein_coding
NIN	HGNC	14906	protein_coding
NIPAL3	HGNC	25233	protein_coding
NIPAL4	HGNC	28018	protein_coding
NIPBL	HGNC	28862	protein_coding
NIPSNAP1	HGNC	7827	protein_coding
NISCH	HGNC	18006	protein_coding
NKX2-8	HGNC	16364	protein_coding
NLGN3	HGNC	14289	protein_coding
NLRC4	HGNC	16412	protein_coding
NLRP5	HGNC	21269	protein_coding
NLRP5	HGNC	21269	protein_coding
NLRP5	HGNC	21269	protein_coding
NLRP9	HGNC	22941	protein_coding
NOC4L	HGNC	28461	protein_coding
NOL6	HGNC	19910	protein_coding
NOP14	HGNC	16821	protein_coding
NOP56	HGNC	15911	protein_coding
NOS1AP	HGNC	16859	protein_coding
NOS3	HGNC	7876	protein_coding
NOS3	HGNC	7876	protein_coding
NOTCH1	HGNC	7881	protein_coding
NOTCH1	HGNC	7881	protein_coding
NPC1L1	HGNC	7898	protein_coding
NPFFR1	HGNC	17425	protein_coding
NPSR1	HGNC	23631	protein_coding

VEP annotated somatic variants

NPTX2	HGNC	7953	protein_coding
NR1D2	HGNC	7963	protein_coding
NR1I3	HGNC	7969	protein_coding
NRDE2	HGNC	20186	protein_coding
NSD1	HGNC	14234	protein_coding
NSUN2	HGNC	25994	protein_coding
NT5DC2	HGNC	25717	protein_coding
NTF4	HGNC	8024	protein_coding
NUDCD3	HGNC	22208	protein_coding
NUFIP1	HGNC	8057	protein_coding
NUGGC	HGNC	33550	protein_coding
NUP107	HGNC	29914	protein_coding
NUP214	HGNC	8064	protein_coding
NUP43	HGNC	21182	protein_coding
NUP50	HGNC	8065	protein_coding
NUP54	HGNC	17359	protein_coding
NUP54	HGNC	17359	protein_coding
NUP88	HGNC	8067	protein_coding
NUP88	HGNC	8067	protein_coding
NXF3	HGNC	8073	protein_coding
NXF5	HGNC	8075	protein_coding
NXF5	HGNC	8075	protein_coding
NXF5	HGNC	8075	protein_coding
NXN	HGNC	18008	protein_coding
OARD1	HGNC	21257	protein_coding
OBSL1	HGNC	29092	protein_coding
OGFOD3	HGNC	26174	protein_coding
OPA3	HGNC	8142	protein_coding
OR2AE1	HGNC	15087	protein_coding
OR3A1	HGNC	8282	protein_coding
OR4A16	HGNC	15153	protein_coding
OR4A5	HGNC	15162	protein_coding
OR4C16	HGNC	15172	protein_coding
OR51B4	HGNC	14708	protein_coding
OR52N1	HGNC	14853	protein_coding
OR5AU1	HGNC	15362	protein_coding
OR5H15	HGNC	31287	protein_coding
OR5I1	HGNC	8347	protein_coding
OR5T1	HGNC	14821	protein_coding
OSBPL2	HGNC	15761	protein_coding
OSGIN1	HGNC	30093	protein_coding
OSGIN1	HGNC	30093	protein_coding
OSMR	HGNC	8507	protein_coding
OTUD7A	HGNC	20718	protein_coding
OXA1L	HGNC	8526	protein_coding
P2RY4	HGNC	8542	protein_coding
P4HB	HGNC	8548	protein_coding
PABPC4	HGNC	8557	protein_coding
PACS1	HGNC	30032	protein_coding
PAGE5	HGNC	29992	protein_coding
PALM	HGNC	8594	protein_coding
PANK1	HGNC	8598	protein_coding
PANK1	HGNC	8598	protein_coding
PANK4	HGNC	19366	protein_coding
PAPOLG	HGNC	14982	protein_coding

## VEP annotated somatic variants

PARS2	HGNC	30563	protein_coding
PARVA	HGNC	14652	protein_coding
PARVB	HGNC	14653	protein_coding
PAX8	HGNC	8622	protein_coding
PBOV1	HGNC	21079	protein_coding
PCDH15	HGNC	14674	protein_coding
PCDH9	HGNC	8661	protein_coding
PCLO	HGNC	13406	protein_coding
PCMT1	HGNC	8728	protein_coding
PCNT	HGNC	16068	protein_coding
PDE12	HGNC	25386	protein_coding
PDE1A	HGNC	8774	protein_coding
PDE2A	HGNC	8777	protein_coding
PDE6C	HGNC	8787	protein_coding
PDGFRA	HGNC	8803	protein_coding
PDGFRB	HGNC	8804	protein_coding
PDGFRB	HGNC	8804	protein_coding
PDSS1	HGNC	17759	protein_coding
PDXDC1	HGNC	28995	protein_coding
PDXDC1	HGNC	28995	protein_coding
PDZD7	HGNC	26257	protein_coding
PEAK1	HGNC	29431	protein_coding
PEAR1	HGNC	33631	protein_coding
PEAR1	HGNC	33631	protein_coding
PEAR1	HGNC	33631	protein_coding
PEPD	HGNC	8840	protein_coding
PEPD	HGNC	8840	protein_coding
PFKP	HGNC	8878	protein_coding
PFKP	HGNC	8878	protein_coding
PGAP1	HGNC	25712	protein_coding
PGK1	HGNC	8896	protein_coding
PGLYRP2	HGNC	30013	protein_coding
PGLYRP3	HGNC	30014	protein_coding
PHF2	HGNC	8920	protein_coding
PHIP	HGNC	15673	protein_coding
PHKA1	HGNC	8925	protein_coding
PHLDB1	HGNC	23697	protein_coding
PHRF1	HGNC	24351	protein_coding
PIFO	HGNC	27009	protein_coding
PIGK	HGNC	8965	protein_coding
PIGN	HGNC	8967	protein_coding
PIGW	HGNC	23213	protein_coding
PIK3R5	HGNC	30035	protein_coding
PIKFYVE	HGNC	23785	protein_coding
PIM3	HGNC	19310	protein_coding
PIWIL3	HGNC	18443	protein_coding
PJA1	HGNC	16648	protein_coding
PKD1L2	HGNC	21715	retained_intron
PKHD1	HGNC	9016	protein_coding
PKP2	HGNC	9024	protein_coding
PLA2G7	HGNC	9040	protein_coding
PLAT	HGNC	9051	protein_coding
PLB1	HGNC	30041	protein_coding
PLCE1	HGNC	17175	protein_coding
PLCE1	HGNC	17175	protein_coding

VEP annotated somatic variants

PLCE1	HGNC	17175	protein_coding
PLCE1	HGNC	17175	protein_coding
PLCG2	HGNC	9066	protein_coding
PLCH2	HGNC	29037	protein_coding
PLCH2	HGNC	29037	protein_coding
PLEC	HGNC	9069	protein_coding
PLEC	HGNC	9069	protein_coding
PLEC	HGNC	9069	protein_coding
PLEC	HGNC	9069	protein_coding
PLEC	HGNC	9069	protein_coding
PLEC	HGNC	9069	protein_coding
PLEKHG5	HGNC	29105	protein_coding
PLEKHH1	HGNC	17733	protein_coding
PLEKHH1	HGNC	17733	protein_coding
PLEKHH1	HGNC	17733	protein_coding
PLEKHN1	HGNC	25284	protein_coding
PLK5	HGNC	27001	protein_coding
PLXDC1	HGNC	20945	protein_coding
PLXNB2	HGNC	9104	protein_coding
PNISR	HGNC	21222	protein_coding
PNPLA1	HGNC	21246	protein_coding
PNPLA3	HGNC	18590	protein_coding
PNPLA6	HGNC	16268	protein_coding
POC1B-GALNT4	HGNC	42957	protein_coding
POLR2G	HGNC	9194	protein_coding
POLR3F	HGNC	15763	protein_coding
POLR3F	HGNC	15763	protein_coding
POSTN	HGNC	16953	protein_coding
POU5F1B	HGNC	9223	protein_coding
PPARG	HGNC	9236	protein_coding
PPARG	HGNC	9236	protein_coding
PPIL2	HGNC	9261	protein_coding
PPM1E	HGNC	19322	protein_coding
PPOX	HGNC	9280	protein_coding
PPP1R27	HGNC	16813	protein_coding
PPP2R2D	HGNC	23732	protein_coding
PPP2R3A	HGNC	9307	protein_coding
PQBP1	HGNC	9330	protein_coding
PRDM5	HGNC	9349	protein_coding
PRDM8	HGNC	13993	protein_coding
PRDX4	HGNC	17169	protein_coding
PRDX4	HGNC	17169	protein_coding
PRDX4	HGNC	17169	protein_coding
PREP	HGNC	9358	protein_coding
PREX2	HGNC	22950	protein_coding
PRG2	HGNC	9362	protein_coding
PRIMPOL	HGNC	26575	protein_coding
PRKCD	HGNC	9399	protein_coding
PRKCD	HGNC	9399	protein_coding
PRKCZ	HGNC	9412	protein_coding
PRMT5	HGNC	10894	protein_coding
PRR22	HGNC	28354	protein_coding
PRR5	HGNC	31682	protein_coding
PRR5-ARHGAP8	HGNC	34512	protein_coding
PRSS36	HGNC	26906	protein_coding

VEP annotated somatic variants

PRUNE2	HGNC	25209	protein_coding
PSG2	HGNC	9519	protein_coding
PSG7	HGNC	9524	polymorphic_pseudogene
PSG9	HGNC	9526	protein_coding
PSMD12	HGNC	9557	protein_coding
PSMG1	HGNC	3043	protein_coding
PSMG2	HGNC	24929	protein_coding
PTGR1	HGNC	18429	protein_coding
PTPRE	HGNC	9669	protein_coding
PTPRF	HGNC	9670	protein_coding
PTPRG	HGNC	9671	protein_coding
PTPRK	HGNC	9674	protein_coding
PTPRN2	HGNC	9677	protein_coding
PTX4	HGNC	14171	protein_coding
PUM1	HGNC	14957	protein_coding
PUM1	HGNC	14957	protein_coding
PUM1	HGNC	14957	protein_coding
PUM1	HGNC	14957	protein_coding
PYGO1	HGNC	30256	protein_coding
PYROXD1	HGNC	26162	protein_coding
RAB11FIP4	HGNC	30267	protein_coding
RAB17	HGNC	16523	protein_coding
RAB38	HGNC	9776	protein_coding
RAB41	HGNC	18293	protein_coding
RABEP1	HGNC	17677	protein_coding
RABGGTA	HGNC	9795	protein_coding
RAC3	HGNC	9803	protein_coding
RAD51B	HGNC	9822	protein_coding
RADIL	HGNC	22226	protein_coding
RAF1	HGNC	9829	protein_coding
RAI14	HGNC	14873	protein_coding
RAP1GAP	HGNC	9858	protein_coding
RAPGEF3	HGNC	16629	protein_coding
RAPSN	HGNC	9863	protein_coding
RASSF1	HGNC	9882	protein_coding
RBM10	HGNC	9896	protein_coding
RBM26	HGNC	20327	protein_coding
RBM27	HGNC	29243	protein_coding
RBPMS	HGNC	19097	protein_coding
RECK	HGNC	11345	protein_coding
RELB	HGNC	9956	protein_coding
REPS1	HGNC	15578	protein_coding
RETNLB	HGNC	20388	protein_coding
RFPL1	HGNC	9977	protein_coding
RFT1	HGNC	30220	protein_coding
RFT1	HGNC	30220	protein_coding
RFTN1	HGNC	30278	protein_coding
RGL3	HGNC	30282	protein_coding
RGS7	HGNC	10003	protein_coding
RIBC2	HGNC	13241	protein_coding
RIPK4	HGNC	496	protein_coding
RMND5A	HGNC	25850	protein_coding
RMND5A	HGNC	25850	protein_coding
RNASEH2A	HGNC	18518	protein_coding
RNASEL	HGNC	10050	protein_coding



VEP annotated somatic variants

RND2	HGNC	18315	protein_coding
RNF175	HGNC	27735	protein_coding
RNF19B	HGNC	26886	protein_coding
RNF222	HGNC	34517	protein_coding
ROBO1	HGNC	10249	protein_coding
ROBO1	HGNC	10249	protein_coding
ROCK2	HGNC	10252	protein_coding
ROR1	HGNC	10256	protein_coding
ROS1	HGNC	10261	protein_coding
RP1-130H16.18	Clone_based_vega_gene		protein_coding
RP11-173B14.4	Clone_based_vega_gene		sense_intronic
RP11-248J23.6	Clone_based_vega_gene		protein_coding
RP11-551L14.1	Clone_based_vega_gene		transcribed_unprocessed_pseud
RP3-467K16.2	Clone_based_vega_gene		antisense
RPAP3	HGNC	26151	protein_coding
RPH3AL	HGNC	10296	protein_coding
RPL18A	HGNC	10311	protein_coding
RPL23A	HGNC	10317	protein_coding
RPL23A	HGNC	10317	protein_coding
RPL3	HGNC	10332	protein_coding
RPS4X	HGNC	10424	protein_coding
RPS6KA2	HGNC	10431	protein_coding
RPTOR	HGNC	30287	protein_coding
RPTOR	HGNC	30287	protein_coding
RRP1B	HGNC	23818	protein_coding
RRP1B	HGNC	23818	protein_coding
RSAD1	HGNC	25634	protein_coding
RSU1	HGNC	10464	protein_coding
RTN3	HGNC	10469	protein_coding
RUFY1	HGNC	19760	protein_coding
RUFY1	HGNC	19760	protein_coding
RUFY2	HGNC	19761	protein_coding
RXRA	HGNC	10477	protein_coding
RYR1	HGNC	10483	protein_coding
RYR1	HGNC	10483	protein_coding
RYR1	HGNC	10483	protein_coding
RYR1	HGNC	10483	protein_coding
RYR2	HGNC	10484	protein_coding
RYR2	HGNC	10484	protein_coding
RYR3	HGNC	10485	protein_coding
SAP18	HGNC	10530	protein_coding
SARDH	HGNC	10536	protein_coding
SBDS	HGNC	19440	protein_coding
SBF1	HGNC	10542	protein_coding
SBF2	HGNC	2135	protein_coding
SCAF1	HGNC	30403	protein_coding
SCAMP3	HGNC	10565	protein_coding
SCARF2	HGNC	19869	protein_coding
SCEL	HGNC	10573	protein_coding
SCIN	HGNC	21695	protein_coding
SCLT1	HGNC	26406	protein_coding
SCLT1	HGNC	26406	protein_coding
SCML4	HGNC	21397	protein_coding
SCN3A	HGNC	10590	protein_coding
SCN9A	HGNC	10597	protein_coding

VEP annotated somatic variants

SCN9A	HGNC	10597	protein_coding
SDE2	HGNC	26643	protein_coding
SDK1	HGNC	19307	protein_coding
SEC13	HGNC	10697	protein_coding
SEC14L6	HGNC	40047	protein_coding
SEC16B	HGNC	30301	protein_coding
SEC23B	HGNC	10702	protein_coding
SEC24D	HGNC	10706	protein_coding
SEC31B	HGNC	23197	protein_coding
SEC31B	HGNC	23197	protein_coding
SEC31B	HGNC	23197	protein_coding
SEC31B	HGNC	23197	protein_coding
SECISBP2	HGNC	30972	protein_coding
SECTM1	HGNC	10707	protein_coding
SELE	HGNC	10718	protein_coding
SELP	HGNC	10721	protein_coding
SEMA3A	HGNC	10723	protein_coding
SEMA3A	HGNC	10723	protein_coding
SEMA3F	HGNC	10728	protein_coding
SEPT3	HGNC	10750	protein_coding
SERPINA3	HGNC	16	protein_coding
SERTAD1	HGNC	17932	protein_coding
SETD1B	HGNC	29187	protein_coding
SETD1B	HGNC	29187	protein_coding
SETD5	HGNC	25566	protein_coding
SEZ6L	HGNC	10763	protein_coding
SF3B3	HGNC	10770	protein_coding
SF3B5	HGNC	21083	protein_coding
SGPL1	HGNC	10817	protein_coding
SGSM2	HGNC	29026	protein_coding
SGSM2	HGNC	29026	protein_coding
SGSM3	HGNC	25228	protein_coding
SH3GLB1	HGNC	10833	protein_coding
SH3PXD2A	HGNC	23664	protein_coding
SHANK1	HGNC	15474	protein_coding
SHANK1	HGNC	15474	protein_coding
SHH	HGNC	10848	protein_coding
SHROOM2	HGNC	630	protein_coding
SIGLEC12	HGNC	15482	protein_coding
SIK1	HGNC	11142	protein_coding
SIM2	HGNC	10883	protein_coding
SIPA1L2	HGNC	23800	protein_coding
SLAMF7	HGNC	21394	protein_coding
SLC10A4	HGNC	22980	protein_coding
SLC10A6	HGNC	30603	protein_coding
SLC12A7	HGNC	10915	protein_coding
SLC13A1	HGNC	10916	protein_coding
SLC16A2	HGNC	10923	protein_coding
SLC1A6	HGNC	10944	protein_coding
SLC1A6	HGNC	10944	protein_coding
SLC22A5	HGNC	10969	protein_coding
SLC23A1	HGNC	10974	protein_coding
SLC24A4	HGNC	10978	protein_coding
SLC25A13	HGNC	10983	protein_coding
SLC25A39	HGNC	24279	protein_coding

VEP annotated somatic variants

SLC25A39	HGNC	24279	protein_coding
SLC26A11	HGNC	14471	protein_coding
SLC28A1	HGNC	11001	protein_coding
SLC28A2	HGNC	11002	protein_coding
SLC2A8	HGNC	13812	protein_coding
SLC35B4	HGNC	20584	protein_coding
SLC35F1	HGNC	21483	protein_coding
SLC35F3	HGNC	23616	protein_coding
SLC37A2	HGNC	20644	protein_coding
SLC38A3	HGNC	18044	processed_transcript
SLC38A7	HGNC	25582	protein_coding
SLC45A4	HGNC	29196	protein_coding
SLC4A2	HGNC	11028	protein_coding
SLC5A5	HGNC	11040	protein_coding
SLC6A14	HGNC	11047	protein_coding
SLC6A16	HGNC	13622	protein_coding
SLC6A4	HGNC	11050	protein_coding
SLC6A9	HGNC	11056	protein_coding
SLC7A8	HGNC	11066	protein_coding
SLC7A8	HGNC	11066	protein_coding
SLC9A7	HGNC	17123	protein_coding
SLCO2A1	HGNC	10955	protein_coding
SMARCA1	HGNC	11097	protein_coding
SMARCA5	HGNC	11101	protein_coding
SMC1B	HGNC	11112	protein_coding
SMOC1	HGNC	20318	protein_coding
SMTN	HGNC	11126	protein_coding
SMYD3	HGNC	15513	protein_coding
SORBS1	HGNC	14565	protein_coding
SORCS2	HGNC	16698	protein_coding
SPAG17	HGNC	26620	protein_coding
SPAG17	HGNC	26620	protein_coding
SPANXN2	HGNC	33175	protein_coding
SPATC1	HGNC	30510	protein_coding
SPEG	HGNC	16901	protein_coding
SPEG	HGNC	16901	protein_coding
SPINT2	HGNC	11247	protein_coding
SPOCK2	HGNC	13564	protein_coding
SPTBN5	HGNC	15680	protein_coding
SPTBN5	HGNC	15680	protein_coding
SRCAP	HGNC	16974	protein_coding
SSPO	HGNC	21998	processed_transcript
SSPO	HGNC	21998	processed_transcript
SSPO	HGNC	21998	processed_transcript
SSUH2	HGNC	24809	protein_coding
ST3GAL2	HGNC	10863	protein_coding
ST6GALNAC2	HGNC	10867	protein_coding
ST6GALNAC2	HGNC	10867	protein_coding
ST6GALNAC4	HGNC	17846	protein_coding
STAB2	HGNC	18629	protein_coding
STAMPB	HGNC	16950	protein_coding
STAP1	HGNC	24133	protein_coding
STARD9	HGNC	19162	protein_coding
STAT4	HGNC	11365	protein_coding
STAT5B	HGNC	11367	protein_coding

VEP annotated somatic variants

STAU2	HGNC	11371	protein_coding
STOML1	HGNC	14560	protein_coding
STRA13	HGNC	11422	protein_coding
STRA8	HGNC	30653	protein_coding
STRBP	HGNC	16462	protein_coding
STRIP1	HGNC	25916	protein_coding
STRIP2	HGNC	22209	protein_coding
STXBP5	HGNC	19665	protein_coding
STYK1	HGNC	18889	protein_coding
STYXL1	HGNC	18165	protein_coding
SUCNR1	HGNC	4542	protein_coding
SUMO3	HGNC	11124	protein_coding
SUMO4	HGNC	21181	protein_coding
SUPT5H	HGNC	11469	protein_coding
SUPT5H	HGNC	11469	protein_coding
SUSD3	HGNC	28391	protein_coding
SWAP70	HGNC	17070	protein_coding
SYMPK	HGNC	22935	protein_coding
SYN2	HGNC	11495	processed_transcript
SYNE2	HGNC	17084	protein_coding
SYNE2	HGNC	17084	protein_coding
SYNJ2	HGNC	11504	protein_coding
SYNM	HGNC	24466	protein_coding
SYNPO2	HGNC	17732	protein_coding
TAB2	HGNC	17075	protein_coding
TAB2	HGNC	17075	protein_coding
TACC3	HGNC	11524	protein_coding
TAF7L	HGNC	11548	protein_coding
TAGAP	HGNC	15669	protein_coding
TAGAP	HGNC	15669	protein_coding
TARSL2	HGNC	24728	protein_coding
TARSL2	HGNC	24728	protein_coding
TATDN2	HGNC	28988	protein_coding
TATDN2	HGNC	28988	protein_coding
TBC1D22A	HGNC	1309	protein_coding
TBC1D4	HGNC	19165	protein_coding
TBC1D5	HGNC	19166	protein_coding
TBCK	HGNC	28261	protein_coding
TBX10	HGNC	11593	protein_coding
TCEAL2	HGNC	29818	protein_coding
TCEB3	HGNC	11620	protein_coding
TCERG1	HGNC	15630	protein_coding
TCN2	HGNC	11653	protein_coding
TDRD9	HGNC	20122	protein_coding
TENM1	HGNC	8117	protein_coding
TENM2	HGNC	29943	protein_coding
TERF2	HGNC	11729	protein_coding
TET3	HGNC	28313	protein_coding
TEX14	HGNC	11737	protein_coding
TEX2	HGNC	30884	protein_coding
TEX26	HGNC	28622	protein_coding
TFB1M	HGNC	17037	protein_coding
TFDP3	HGNC	24603	protein_coding
TFPT	HGNC	13630	protein_coding
TGFBR3	HGNC	11774	protein_coding

VEP annotated somatic variants

TGIF2LX	HGNC	18570	protein_coding
TGM7	HGNC	30790	protein_coding
THBS2	HGNC	11786	protein_coding
THEG	HGNC	13706	protein_coding
THSD7A	HGNC	22207	protein_coding
THTPA	HGNC	18987	protein_coding
THUMPD2	HGNC	14890	protein_coding
TIAM1	HGNC	11805	protein_coding
TIAM2	HGNC	11806	protein_coding
TICAM1	HGNC	18348	protein_coding
TIMM21	HGNC	25010	protein_coding
TKT	HGNC	11834	protein_coding
TKT	HGNC	11834	protein_coding
TLCD1	HGNC	25177	protein_coding
TLE3	HGNC	11839	protein_coding
TLE3	HGNC	11839	protein_coding
TLK2	HGNC	11842	protein_coding
TLL1	HGNC	11843	protein_coding
TLL2	HGNC	11844	protein_coding
TLL2	HGNC	11844	protein_coding
TLL2	HGNC	11844	protein_coding
TLN2	HGNC	15447	protein_coding
TLX2	HGNC	5057	protein_coding
TMED6	HGNC	28331	protein_coding
TMEM131	HGNC	30366	protein_coding
TMEM140	HGNC	21870	protein_coding
TMEM150C	HGNC	37263	protein_coding
TMEM185A	HGNC	17125	protein_coding
TMEM216	HGNC	25018	protein_coding
TMEM220	HGNC	33757	protein_coding
TMPRSS11A	HGNC	27954	protein_coding
TNFAIP3	HGNC	11896	protein_coding
TNFSF8	HGNC	11938	protein_coding
TNRC18	HGNC	11962	protein_coding
TNS4	HGNC	24352	protein_coding
TNS4	HGNC	24352	protein_coding
TP53BP1	HGNC	11999	protein_coding
TP53BP1	HGNC	11999	protein_coding
TP53BP1	HGNC	11999	protein_coding
TPGS2	HGNC	24561	protein_coding
TPM4	HGNC	12013	protein_coding
TPPP	HGNC	24164	protein_coding
TPPP	HGNC	24164	protein_coding
TPRG1	HGNC	24759	protein_coding
TRAPPC6A	HGNC	23069	protein_coding
TRAPPC6B	HGNC	23066	protein_coding
TRAPPC6B	HGNC	23066	protein_coding
TRERF1	HGNC	18273	protein_coding
TREX2	HGNC	12270	protein_coding
TRIM15	HGNC	16284	protein_coding
TRIM27	HGNC	9975	protein_coding
TRIM46	HGNC	19019	protein_coding
TRIM62	HGNC	25574	protein_coding
TRIM67	HGNC	31859	protein_coding
TRIM9	HGNC	16288	protein_coding

VEP annotated somatic variants

TRIM9	HGNC	16288	protein_coding
TRIO	HGNC	12303	protein_coding
TRIP6	HGNC	12311	protein_coding
TRMT1	HGNC	25980	protein_coding
TRMT2B	HGNC	25748	protein_coding
TRPC4AP	HGNC	16181	protein_coding
TRPM1	HGNC	7146	protein_coding
TRPM5	HGNC	14323	protein_coding
TRPM7	HGNC	17994	protein_coding
TRPV4	HGNC	18083	protein_coding
TSC1	HGNC	12362	protein_coding
TSC1	HGNC	12362	protein_coding
TSC2	HGNC	12363	protein_coding
TSPAN1	HGNC	20657	protein_coding
TSPAN6	HGNC	11858	protein_coding
TSPAN7	HGNC	11854	protein_coding
TSSK2	HGNC	11401	protein_coding
TTBK1	HGNC	19140	protein_coding
TTBK1	HGNC	19140	protein_coding
TTC18	HGNC	30726	protein_coding
TTC19	HGNC	26006	protein_coding
TTC28	HGNC	29179	protein_coding
TTC40	HGNC	25247	protein_coding
TTC40	HGNC	25247	protein_coding
TTC40	HGNC	25247	protein_coding
TTC40	HGNC	25247	protein_coding
TTC40	HGNC	25247	protein_coding
TLL1	HGNC	1312	protein_coding
TLL6	HGNC	26664	protein_coding
TUB	HGNC	12406	protein_coding
TUBGCP5	HGNC	18600	protein_coding
TUBGCP6	HGNC	18127	protein_coding
TULP4	HGNC	15530	protein_coding
TULP4	HGNC	15530	protein_coding
TWF1	HGNC	9620	protein_coding
TYMP	HGNC	3148	protein_coding
UBASH3A	HGNC	12462	protein_coding
UBASH3B	HGNC	29884	protein_coding
UBE3C	HGNC	16803	protein_coding
UBR4	HGNC	30313	protein_coding
UBXN2B	HGNC	27035	protein_coding
UCP3	HGNC	12519	protein_coding
UHRF1	HGNC	12556	processed_transcript
UHRF2	HGNC	12557	protein_coding
ULK4	HGNC	15784	protein_coding
UMODL1	HGNC	12560	protein_coding
UMODL1	HGNC	12560	protein_coding
UMODL1	HGNC	12560	protein_coding
UNC45B	HGNC	14304	protein_coding
UNKL	HGNC	14184	protein_coding
UPB1	HGNC	16297	protein_coding
UPRT	HGNC	28334	protein_coding
USH2A	HGNC	12601	protein_coding
USHBP1	HGNC	24058	protein_coding

VEP annotated somatic variants

USP10	HGNC	12608	protein_coding
USP11	HGNC	12609	protein_coding
USP18	HGNC	12616	protein_coding
USP20	HGNC	12619	protein_coding
USP22	HGNC	12621	protein_coding
USP34	HGNC	20066	protein_coding
UTP15	HGNC	25758	protein_coding
UTP20	HGNC	17897	protein_coding
UTP20	HGNC	17897	protein_coding
UTY	HGNC	12638	protein_coding
VIM	HGNC	12692	protein_coding
VIPR2	HGNC	12695	protein_coding
VRK2	HGNC	12719	protein_coding
VTI1B	HGNC	17793	protein_coding
WBSCR22	HGNC	16405	protein_coding
WBSCR22	HGNC	16405	protein_coding
WBSCR27	HGNC	19068	protein_coding
WDFY4	HGNC	29323	protein_coding
WDR11	HGNC	13831	protein_coding
WDR11	HGNC	13831	protein_coding
WDR11	HGNC	13831	protein_coding
WDR11	HGNC	13831	protein_coding
WDR11	HGNC	13831	protein_coding
WDR17	HGNC	16661	protein_coding
WDR26	HGNC	21208	protein_coding
WDR43	HGNC	28945	protein_coding
WDR48	HGNC	30914	protein_coding
WDR60	HGNC	21862	protein_coding
WDR87	HGNC	29934	protein_coding
WDR91	HGNC	24997	protein_coding
WIPI2	HGNC	32225	protein_coding
WNK1	HGNC	14540	protein_coding
WNT2B	HGNC	12781	protein_coding
WNT8B	HGNC	12789	protein_coding
WRNIP1	HGNC	20876	protein_coding
WSB2	HGNC	19222	protein_coding
WWC1	HGNC	29435	protein_coding
WWP2	HGNC	16804	protein_coding
XAB2	HGNC	14089	protein_coding
XKR8	HGNC	25508	protein_coding
XPNPEP1	HGNC	12822	protein_coding
XPNPEP3	HGNC	28052	protein_coding
XPO5	HGNC	17675	protein_coding
XRCC1	HGNC	12828	protein_coding
XRCC1	HGNC	12828	protein_coding
YBX2	HGNC	17948	protein_coding
YY1AP1	HGNC	30935	protein_coding
YY1AP1	HGNC	30935	protein_coding
ZBTB2	HGNC	20868	protein_coding
ZC2HC1B	HGNC	21174	protein_coding
ZC3H12D	HGNC	21175	protein_coding
ZC3H12D	HGNC	21175	protein_coding
ZC3H12D	HGNC	21175	protein_coding
ZC3H3	HGNC	28972	protein_coding
ZC3H7B	HGNC	30869	protein_coding

VEP annotated somatic variants

ZCCHC18	HGNC	32459	protein_coding
ZDHHC16	HGNC	20714	protein_coding
ZDHHC6	HGNC	19160	protein_coding
ZDHHC7	HGNC	18459	protein_coding
ZFAND2A	HGNC	28073	protein_coding
ZFHX2	HGNC	20152	protein_coding
ZFPM2	HGNC	16700	protein_coding
ZFYVE19	HGNC	20758	protein_coding
ZKSCAN5	HGNC	12867	protein_coding
ZMYND10	HGNC	19412	protein_coding
ZMYND10	HGNC	19412	protein_coding
ZNF185	HGNC	12976	protein_coding
ZNF275	HGNC	13069	protein_coding
ZNF304	HGNC	13505	protein_coding
ZNF324	HGNC	14096	protein_coding
ZNF365	HGNC	18194	protein_coding
ZNF414	HGNC	20630	protein_coding
ZNF420	HGNC	20649	protein_coding
ZNF432	HGNC	20810	protein_coding
ZNF441	HGNC	20875	protein_coding
ZNF449	HGNC	21039	protein_coding
ZNF493	HGNC	23708	protein_coding
ZNF512B	HGNC	29212	protein_coding
ZNF592	HGNC	28986	protein_coding
ZNF598	HGNC	28079	protein_coding
ZNF614	HGNC	24722	protein_coding
ZNF626	HGNC	30461	protein_coding
ZNF676	HGNC	20429	protein_coding
ZNF697	HGNC	32034	protein_coding
ZNF708	HGNC	12945	protein_coding
ZNF717	HGNC	29448	protein_coding
ZNF75D	HGNC	13145	protein_coding
ZNF785	HGNC	26496	protein_coding
ZNF816	HGNC	26995	protein_coding
ZNF839	HGNC	20345	protein_coding
ZP1	HGNC	13187	protein_coding
ZSCAN2	HGNC	20994	protein_coding
ZSWIM4	HGNC	25704	protein_coding
ZZEF1	HGNC	29027	protein_coding



## VEP annotated somatic variants

CANONICAL	CCDS	ENSP	SWISSPROT
YES	CCDS3161.2	ENSP00000348911	Q6P093
YES	CCDS35073.1	ENSP00000364382	Q7RTV5
YES	CCDS5783.1	ENSP00000377040	Q9UDR5
YES	CCDS11684.1	ENSP00000269081	Q8WWZ4
YES	CCDS10466.1	ENSP00000301732	Q99758
YES	CCDS11683.1	ENSP00000284425	Q8N139
YES	CCDS11683.1	ENSP00000284425	Q8N139
YES	CCDS11681.1	ENSP00000342216	Q8IUA7
YES	CCDS42122.1	ENSP00000382342	P33527
YES	CCDS10568.1	ENSP00000205557	O95255
YES	CCDS31437.1	ENSP00000374467	Q09428
YES	CCDS32802.1	ENSP00000289119	Q8WU67
YES	CCDS10999.1	ENSP00000303909	Q12979
YES		ENSP00000471728	
YES	CCDS8498.1	ENSP00000281182	Q9UKU7
YES	CCDS44165.1	ENSP00000409612	P11310
YES	CCDS7634.1	ENSP00000357873	P45954
YES	CCDS1551.1	ENSP00000355777	Q9H3P7
YES	CCDS12161.1	ENSP00000301452	Q8TDN7
YES	CCDS7928.1	ENSP00000256997	P11117
YES	CCDS3116.1	ENSP00000286353	Q8TE99
YES	CCDS10298.1	ENSP00000258873	Q96GR2
YES	CCDS10974.1	ENSP00000320646	Q4G176
YES	CCDS44825.1	ENSP00000382349	P0C7M7
YES	CCDS2679.1	ENSP00000340361	Q13705
YES	CCDS1087.1	ENSP00000349436	Q13444
YES	CCDS1665.1	ENSP00000309968	P78536
YES	CCDS7307.1	ENSP00000362304	Q8WXS8
YES	CCDS4444.1	ENSP00000251582	O95450
YES	CCDS31778.2	ENSP00000374071	P59510
YES	CCDS1223.1	ENSP00000356975	O75173
YES	CCDS3983.2	ENSP00000370443	Q9UKP5
YES	CCDS47954.1	ENSP00000369921	Q8N6G6
YES	CCDS1434.1	ENSP00000356205	P30542
YES	CCDS838.1	ENSP00000358730	P33765
YES	CCDS31286.1	ENSP00000303042	Q8N4X5
YES	CCDS54775.1	ENSP00000378578	P51825
YES	CCDS14684.1	ENSP00000359489	P51816
YES	CCDS43681.1	ENSP00000380413	Q96P47
YES	CCDS47718.1	ENSP00000388275	Q8NEM8
YES	CCDS3137.1	ENSP00000443186	P30556
YES	CCDS47483.1	ENSP00000356774	Q8N157
YES	CCDS10716.1	ENSP00000307199	Q9NZD4
YES	CCDS5198.1	ENSP00000350509	Q9NVV5
YES		ENSP00000433931	
YES		ENSP00000433931	
YES	CCDS11075.1	ENSP00000370521	Q9NZN9
YES	CCDS13706.1	ENSP00000291582	O43918
YES	CCDS13706.1	ENSP00000291582	O43918
YES	CCDS5622.1	ENSP00000348573	Q99996
YES	CCDS5622.1	ENSP00000348573	Q99996
YES	CCDS5832.1	ENSP00000352584	O60218
YES	CCDS3555.1	ENSP00000295897	P02768

VEP annotated somatic variants

YES	CCDS12766.1	ENSP00000293350	Q8IZ83
YES	CCDS10389.1	ENSP00000332256	P47895
YES	CCDS7212.1	ENSP00000363512	P09917
YES	CCDS10333.1	ENSP00000258888	Q96L96
YES	CCDS10333.1	ENSP00000258888	Q96L96
YES	CCDS41723.1	ENSP00000348635	Q86YT9
YES	CCDS41723.1	ENSP00000348635	Q86YT9
YES	CCDS2093.1	ENSP00000339109	Q9H1A4
YES	CCDS47849.1	ENSP00000265709	P16157
YES	CCDS33351.2	ENSP00000427882	Q7Z5J8
YES	CCDS44734.1	ENSP00000306678	Q8NFD2
YES	CCDS41869.1	ENSP00000350686	Q86XL3
YES		ENSP00000290943	A2A2Z9
YES	CCDS41499.1	ENSP00000365255	Q9UPS8
YES	CCDS46769.1	ENSP00000382379	O15084
YES	CCDS919.1	ENSP00000347802	Q8N283
YES	CCDS44920.1	ENSP00000267116	Q8NB46
YES	CCDS34161.1	ENSP00000342295	Q3KP44
YES	CCDS33360.1	ENSP00000363832	Q06278
YES		ENSP00000469810	
YES	CCDS13855.1	ENSP00000350199	Q10567
YES	CCDS46148.1	ENSP00000351926	O95782
YES	CCDS32240.1	ENSP00000261842	Q9UPM8
YES	CCDS32240.1	ENSP00000261842	Q9UPM8
YES	CCDS31167.1	ENSP00000365411	Q7Z5R6
YES	CCDS48138.1	ENSP00000362268	Q6UXV4
YES		ENSP00000337144	Q8IXF9
YES		ENSP00000337144	Q8IXF9
YES	CCDS11889.1	ENSP00000372654	P55087
YES	CCDS4124.1	ENSP00000350541	Q6Q4G3
YES	CCDS8774.1	ENSP00000256682	P61204
YES	CCDS34075.1	ENSP00000336923	A1A4S6
YES		ENSP00000414774	
YES	CCDS14628.1	ENSP00000276211	Q6ZRI8
YES	CCDS55540.1	ENSP00000359045	P98171
YES	CCDS1163.1	ENSP00000357177	O15085
YES	CCDS46.2	ENSP00000367629	Q5VV41
YES	CCDS53376.1	ENSP00000354837	Q92974
YES	CCDS46854.1	ENSP00000341071	Q9NR81
YES	CCDS45068.1	ENSP00000364893	Q14155
YES	CCDS35006.1	ENSP00000368189	A6NKF2
YES	CCDS7131.1	ENSP00000366487	Q96KC2
YES	CCDS54646.1	ENSP00000420333	Q8IUR7
YES	CCDS59170.1	ENSP00000404304	
YES	CCDS59170.1	ENSP00000404304	
YES	CCDS59170.1	ENSP00000404304	
YES	CCDS59170.1	ENSP00000404304	
YES	CCDS58504.1	ENSP00000403701	P32121
YES	CCDS12370.1	ENSP00000222250	Q8TBH0
YES	CCDS12370.1	ENSP00000222250	Q8TBH0
YES	CCDS14100.2	ENSP00000216124	P15289
YES	CCDS13771.1	ENSP00000263207	O00192
YES	CCDS47750.2	ENSP00000391137	Q8WXI3
YES	CCDS46856.2	ENSP00000419199	A6NK59
YES	CCDS5641.1	ENSP00000321388	Q9Y574

VEP annotated somatic variants

YES	CCDS6924.1	ENSP00000277458	Q9NWX5
YES	CCDS2442.1	ENSP00000326627	Q96FT7
YES	CCDS58611.1	ENSP00000306625	Q9BZE9
YES	CCDS33249.1	ENSP00000343674	Q6HA08
YES	CCDS33249.1	ENSP00000343674	Q6HA08
YES	CCDS6815.1	ENSP00000354504	O75129
YES	CCDS45847.1	ENSP00000269197	Q9C0F0
YES	CCDS5772.1	ENSP00000284629	Q8WWH4
YES	CCDS623.1	ENSP00000322159	Q96DT6
YES	CCDS9700.1	ENSP00000351155	Q8WXF7
YES	CCDS32011.1	ENSP00000420387	P98196
YES	CCDS175.1	ENSP00000327214	Q9NQ11
YES	CCDS1196.1	ENSP00000354490	P50993
YES	CCDS1197.1	ENSP00000357060	Q13733
YES	CCDS42207.1	ENSP00000262429	O75185
YES	CCDS31142.1	ENSP00000349142	P36542
YES	CCDS35339.1	ENSP00000345728	Q04656
YES	CCDS11965.1	ENSP00000445359	O43520
YES	CCDS33489.1	ENSP00000342481	O75110
YES	CCDS33489.1	ENSP00000342481	O75110
YES	CCDS2768.1	ENSP00000323099	Q8WXE1
YES	CCDS10640.1	ENSP00000378917	Q8WWM7
YES	CCDS35321.1	ENSP00000363645	Q58HT5
YES	CCDS35320.1	ENSP00000421172	Q6E213
YES	CCDS30948.1	ENSP00000356590	Q5T1B0
YES	CCDS10405.1	ENSP00000262320	O15169
YES	CCDS12364.1	ENSP00000321874	Q9Y2A9
YES	CCDS11775.1	ENSP00000316338	Q9UQB8
YES	CCDS10434.1	ENSP00000324510	O94812
YES	CCDS3728.1	ENSP00000438273	Q6ZW61
YES	CCDS12581.1	ENSP00000269980	P12694
YES	CCDS5550.1	ENSP00000223368	Q9BQE9
YES	CCDS14616.1	ENSP00000437775	Q5H9F3
YES	CCDS44623.1	ENSP00000399709	O76090
YES	CCDS8726.1	ENSP00000281474	Q96G01
YES	CCDS7446.1	ENSP00000224337	Q8WV28
YES	CCDS14334.1	ENSP00000252677	O95972
YES	CCDS10324.1	ENSP00000307041	Q01954
YES	CCDS13210.1	ENSP00000170150	Q8N4F0
YES	CCDS11673.1	ENSP00000307208	Q12830
YES	CCDS11456.2	ENSP00000418960	Q3YB49,Q3B891,K7EPC7
YES	CCDS11456.2	ENSP00000418960	Q3YB49,Q3B891,K7EPC7
YES	CCDS11456.2	ENSP00000418960	Q3YB49,Q3B891,K7EPC7
YES	CCDS9344.1	ENSP00000439902	P51587
YES	CCDS34127.2	ENSP00000419765	Q9H8M2
YES	CCDS13662.1	ENSP00000330753	Q9NSI6
YES	CCDS44103.1	ENSP00000397759	Q9NW68
YES	CCDS12033.1	ENSP00000333769	P35613
YES	CCDS12033.1	ENSP00000333769	P35613
YES	CCDS31301.1	ENSP00000260723	Q32M84
YES	CCDS31301.1	ENSP00000260723	Q32M84
YES	CCDS737.1	ENSP00000343686	Q5XKL5
YES	CCDS9043.1	ENSP00000256015	P62324
YES	CCDS4460.2	ENSP00000330200	Q6UXG8
YES	CCDS11605.1	ENSP00000345824	O95153

VEP annotated somatic variants

YES	CCDS44430.1	ENSP00000403151	Q8TEF2
YES	CCDS44387.1	ENSP00000363259	Q711Q0
YES	CCDS31310.1	ENSP00000284694	Q96M02
YES	CCDS31480.1	ENSP00000367878	Q9H6J7
YES	CCDS9179.1	ENSP00000261318	Q9H741
YES		ENSP00000431759	
YES	CCDS8667.1	ENSP00000331691	Q5U649
YES	CCDS61401.1	ENSP00000382794	A8MTL3
YES	CCDS45591.1	ENSP00000370770	Q6ZR85
YES	CCDS11477.1	ENSP00000313500	Q8N3J3
YES	CCDS12057.2	ENSP00000465260	
YES	CCDS12511.1	ENSP00000301246	Q9GZP8
YES	CCDS14602.1	ENSP00000304364	Q96EU7
YES	CCDS44340.1	ENSP00000355492	Q5SY80
YES	CCDS30745.1	ENSP00000360046	Q5JVX7
YES	CCDS30729.1	ENSP00000345972	Q5VWT5
YES	CCDS30755.1	ENSP00000322609	Q5RHP9
YES	CCDS11761.1	ENSP00000340864	Q9BXJ1
YES	CCDS42839.1	ENSP00000373586	Q08AI8
YES		ENSP00000290390	
YES	CCDS32883.1	ENSP00000245907	P01024
YES	CCDS47131.1	ENSP00000381937	Q0P651
YES	CCDS6826.1	ENSP00000223642	P01031
YES	CCDS6826.1	ENSP00000223642	P01031
YES	CCDS43419.1	ENSP00000420610	Q7Z4U5
YES	CCDS47201.1	ENSP00000322061	P10643
YES	CCDS32684.1	ENSP00000405388	Q9NS85
YES	CCDS10965.1	ENSP00000309649	P35218
YES	CCDS13823.1	ENSP00000381364	Q9Y6J0
YES	CCDS45998.1	ENSP00000353362	O00555
YES	CCDS59522.1	ENSP00000360423	Q00975
YES	CCDS44788.1	ENSP00000266376	Q13936
YES	CCDS54588.1	ENSP00000418081	Q9NY47
YES	CCDS54588.1	ENSP00000418081	Q9NY47
YES	CCDS7125.1	ENSP00000320025	Q08289
YES	CCDS54965.1	ENSP00000425493	Q8TC20
YES	CCDS5835.1	ENSP00000354826	Q05682
YES	CCDS12288.1	ENSP00000320866	P27797
YES	CCDS7091.1	ENSP00000368124	Q8IU85
YES	CCDS3703.1	ENSP00000339740	Q13557
YES	CCDS1820.1	ENSP00000367755	Q7Z624
YES	CCDS45947.1	ENSP00000416797	Q9P1Y5
YES	CCDS47436.1	ENSP00000381758	Q9UMQ6
YES	CCDS1586.1	ENSP00000271971	O14815
YES	CCDS12156.1	ENSP00000222125	Q13938
YES	CCDS13948.1	ENSP00000384570	Q9BWT7
YES	CCDS54289.1	ENSP00000375767	Q9Y2G2
YES	CCDS12323.1	ENSP00000393417	P31944
YES	CCDS1198.2	ENSP00000357057	P31415
YES	CCDS41246.1	ENSP00000366221	Q86V15
YES	CCDS12514.2	ENSP00000386962	Q6ZRH7
YES	CCDS2569.1	ENSP00000341940	P56539
YES	CCDS10784.1	ENSP00000258214	Q96A19
YES	CCDS1854.2	ENSP00000295117	Q96G28
YES	CCDS12322.1	ENSP00000292574	Q8IYK2

VEP annotated somatic variants

YES	CCDS11940.2	ENSP00000381553	Q96M91
YES		ENSP00000416445	Q96HB5
YES	CCDS43617.1	ENSP00000307666	Q96JG6
YES	CCDS42400.1	ENSP00000329360	Q6PK04
YES	CCDS31282.1	ENSP00000358718	Q5T655
YES	CCDS43242.1	ENSP00000373566	Q5M9N0
YES	CCDS55896.1	ENSP00000421868	
YES		ENSP00000359299	
YES		ENSP00000376154	Q2TAC2
YES	CCDS7257.1	ENSP00000263102	Q16204
YES	CCDS53691.1	ENSP00000415528	Q6ZN84
YES	CCDS6570.1	ENSP00000308815	Q99731
YES	CCDS43078.1	ENSP00000292301	P41597
YES	CCDS4982.1	ENSP00000287097	Q6YHK3
YES	CCDS43131.1	ENSP00000381272	Q6Q8B3
YES	CCDS53399.1	ENSP00000357012	Q9BZW8
YES	CCDS32720.1	ENSP00000353259	Q9UGN4
YES	CCDS12661.1	ENSP00000310966	O15446
YES	CCDS1482.1	ENSP00000313875	P15529
YES	CCDS11807.1	ENSP00000312027	P09564
YES	CCDS4200.2	ENSP00000378350	Q9UJX2
YES	CCDS31601.1	ENSP00000345133	Q6DT37
YES	CCDS54499.1	ENSP00000405726	O75419
YES	CCDS2727.1	ENSP00000296129	Q9H5V8
YES	CCDS3889.1	ENSP00000425093	Q13634
YES	CCDS5085.1	ENSP00000357907	Q9BWU1
YES	CCDS11736.1	ENSP00000410561	Q00526
YES	CCDS3999.1	ENSP00000256443	P50613
YES	CCDS4546.1	ENSP00000274695	Q5VV42
YES	CCDS14186.1	ENSP00000369325	O76039
YES	CCDS13088.1	ENSP00000419879	O95674
YES	CCDS34389.1	ENSP00000365465	
YES	CCDS34389.1	ENSP00000365465	
YES	CCDS46086.1	ENSP00000385739	Q3KPI0
YES	CCDS12586.2	ENSP00000349971	P40198
YES	CCDS13742.1	ENSP00000382733	Q9NZK5
YES		ENSP00000262608	Q9BXF3
YES		ENSP00000262608	Q9BXF3
YES	CCDS33595.1	ENSP00000337358	Q9BXW7
YES	CCDS13740.1	ENSP00000329318	Q9BXQ6
YES	CCDS14479.1	ENSP00000362018	Q92674
YES	CCDS34529.1	ENSP00000357311	Q5EE01
YES	CCDS13255.1	ENSP00000380661	Q9BV73
YES	CCDS13255.1	ENSP00000380661	Q9BV73
YES	CCDS3086.1	ENSP00000336524	Q96MT8
YES	CCDS3086.1	ENSP00000336524	Q96MT8
YES	CCDS3102.1	ENSP00000264982	Q8NHQ1
YES	CCDS45763.1	ENSP00000450461	Q96GE4
YES	CCDS6901.2	ENSP00000361929	Q5T4B2
YES	CCDS10825.1	ENSP00000317842	O00748
YES	CCDS1385.1	ENSP00000356399	P08603
YES	CCDS5773.1	ENSP00000003084	P13569
YES	CCDS33071.1	ENSP00000470813	P01233
YES	CCDS927.1	ENSP00000358262	Q86WJ1
YES	CCDS53849.1	ENSP00000392395	Q96EP1

VEP annotated somatic variants

YES	CCDS53849.1	ENSP00000392395	Q96EP1
YES	CCDS30802.1	ENSP00000437082	Q15782
YES	CCDS11106.1	ENSP00000304290	P11230
YES	CCDS10059.1	ENSP00000307297	Q8NCHO
YES	CCDS10544.1	ENSP00000316328	P33076
YES		ENSP00000442057	Q9BW66
YES	CCDS55891.1	ENSP00000376306	O14578
YES	CCDS48136.1	ENSP00000401764	Q99966
YES	CCDS4053.1	ENSP00000404203	P17540
YES	CCDS138.1	ENSP00000234488	P51797
YES	CCDS167.1	ENSP00000332771	P51800
YES	CCDS5717.1	ENSP00000385300	P56746
YES	CCDS8594.1	ENSP00000299663	Q9ULY5
YES	CCDS14767.1	ENSP00000358460	O15247
YES	CCDS256.1	ENSP00000363500	Q9Y696
YES	CCDS58285.1	ENSP00000439093	P30622
YES	CCDS1770.1	ENSP00000327009	Q8N3C7
YES	CCDS14198.1	ENSP00000368824	Q8WXI2
YES	CCDS7478.2	ENSP00000349147	Q9NRU3
YES	CCDS10799.1	ENSP00000320949	A5YKK6
YES	CCDS2050.1	ENSP00000289382	Q9UKZ1
YES	CCDS5015.1	ENSP00000441046	P21554
YES	CCDS43041.1	ENSP00000380602	Q8I WV2
YES	CCDS5889.1	ENSP00000354778	Q9UHC6
YES	CCDS5889.1	ENSP00000354778	Q9UHC6
YES	CCDS35118.1	ENSP00000362962	Q7Z7A1
YES	CCDS34637.1	ENSP00000265136	O75128
YES	CCDS10892.2	ENSP00000315775	
YES	CCDS5742.1	ENSP00000297135	Q9UP83
YES	CCDS7554.1	ENSP00000340937	Q9UMD9
YES	CCDS4436.1	ENSP00000375069	Q86Y22
YES	CCDS41353.1	ENSP00000359603	Q17RW2
YES	CCDS41353.1	ENSP00000359603	Q17RW2
YES		ENSP00000318234	
YES	CCDS14541.1	ENSP00000361290	Q14031
YES	CCDS12222.1	ENSP00000264828	P25940
YES	CCDS13727.1	ENSP00000355180	P12109
YES	CCDS33412.1	ENSP00000295550	P12111
YES	CCDS13770.1	ENSP00000354511	P21964
YES	CCDS31080.1	ENSP00000406327	Q5RI15
YES	CCDS3141.1	ENSP00000264613	P00450
YES	CCDS45329.1	ENSP00000457881	Q9BZB8
YES	CCDS4390.1	ENSP00000265085	Q17RY0
YES	CCDS31007.1	ENSP00000356024	P20023
YES	CCDS6852.2	ENSP00000362734	Q5IJ48
YES	CCDS56478.1	ENSP00000340943	Q13324
YES	CCDS1783.1	ENSP00000280527	Q9NZV1
YES	CCDS1783.1	ENSP00000280527	Q9NZV1
YES	CCDS55019.1	ENSP00000389026	P54108
YES	CCDS33446.1	ENSP00000366557	Q9BZJ0
YES	CCDS32331.1	ENSP00000268184	Q6UUV7
YES		ENSP00000182096	Q68DQ2
YES		ENSP00000391551	
YES	CCDS14711.1	ENSP00000359310	Q6PB30
YES	CCDS13003.1	ENSP00000217244	P68400

VEP annotated somatic variants

YES	CCDS10284.1	ENSP00000312506	Q6UVK1
YES	CCDS58780.1	ENSP00000415579	Q8NI51
YES		ENSP00000470478	
YES	CCDS7269.1	ENSP00000389714	Q9UI47
YES	CCDS6775.1	ENSP00000320434	Q9UBT7
YES	CCDS7113.1	ENSP00000367064	O60494
YES	CCDS55709.1	ENSP00000444856	Q13617
YES	CCDS55003.1	ENSP00000438788	Q14999
YES	CCDS56498.1	ENSP00000353401	P39880
YES	CCDS56498.1	ENSP00000353401	P39880
YES	CCDS46465.1	ENSP00000387006	Q9HCG8
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YES	CCDS8336.2	ENSP00000282251	Q2TBE0
YES	CCDS48135.1	ENSP00000362795	P49682
YES	CCDS53639.1	ENSP00000398979	Q8NBI2
YES	CCDS7780.1	ENSP00000437041	Q6BCY4
YES	CCDS12571.1	ENSP00000332679	Q16696
YES	CCDS12571.1	ENSP00000332679	Q16696
YES	CCDS5674.1	ENSP00000337915	P08684
YES	CCDS42517.1	ENSP00000448998	Q9HCS2
YES	CCDS5623.1	ENSP00000003100	Q16850
YES	CCDS31578.1	ENSP00000257215	Q9Y4D2
YES	CCDS2180.1	ENSP00000264161	P14868
YES	CCDS33863.1	ENSP00000260803	Q9UK59
YES	CCDS32926.1	ENSP00000254337	Q66K64
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YES	CCDS11952.1	ENSP00000389140	P43146
YES	CCDS4550.1	ENSP00000367715	Q9UHG0
	CCDS47150.1	ENSP00000345062	Q6V1P9
YES	CCDS34108.1	ENSP00000349576	P32321
YES	CCDS44856.1	ENSP00000384703	Q96FC9
YES	CCDS44856.1	ENSP00000384703	Q96FC9
YES	CCDS30964.1	ENSP00000330460	Q5T1V6
YES	CCDS35133.1	ENSP00000362727	Q8TEH3
YES	CCDS31423.1	ENSP00000328524	Q6IQ26
YES	CCDS3977.1	ENSP00000265036	Q8WUY9
YES	CCDS33598.1	ENSP00000263196	P98153
YES	CCDS47547.1	ENSP00000385780	Q9Y6T7
YES	CCDS146.1	ENSP00000365397	O75911
YES	CCDS7652.1	ENSP00000284690	Q7L7V1
YES	CCDS9261.1	ENSP00000311135	Q8IY37
YES	CCDS11464.1	ENSP00000262415	Q14562
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YES	CCDS43374.1	ENSP00000381565	O60610
YES	CCDS31799.1	ENSP00000301180	Q9P265
YES	CCDS45286.1	ENSP00000321711	Q8TF46
	CCDS31055.1	ENSP00000355596	Q9NRI5
YES	CCDS53482.1	ENSP00000355593	Q9NRI5
YES	CCDS6130.1	ENSP00000220812	Q9UBT3
YES	CCDS44690.1	ENSP00000365272	Q15700
YES	CCDS14403.1	ENSP00000363480	Q92796
YES	CCDS7353.2	ENSP00000361467	Q8TDM6
YES	CCDS4897.1	ENSP00000349893	Q6UY11

VEP annotated somatic variants

YES	CCDS12463.1	ENSP00000342012	Q6E0U4
YES		ENSP00000382133	
YES		ENSP00000330671	Q96DT5
		ENSP00000295937	Q6ZR08
		ENSP00000414402	Q0VDD8
		ENSP00000414402	Q0VDD8
		ENSP00000414402	Q0VDD8
		ENSP00000414402	Q0VDD8
		ENSP00000414402	Q0VDD8
YES		ENSP00000374490	Q9UFH2
YES		ENSP00000352312	Q96JB1
YES	CCDS11160.1	ENSP00000262442	Q9NYC9
YES	CCDS420.1	ENSP00000296218	O14645
YES	CCDS44167.1	ENSP00000359699	Q8WZ79
YES	CCDS7485.1	ENSP00000315659	Q6XZF7
YES	CCDS4371.1	ENSP00000256935	Q92608
YES	CCDS46835.1	ENSP00000266037	Q8IZD9
YES	CCDS42460.1	ENSP00000381657	Q8TEK3
YES	CCDS10982.1	ENSP00000376807	P16444
YES	CCDS46064.1	ENSP00000347716	Q92782
YES	CCDS41358.1	ENSP00000359127	Q9H2P9
YES	CCDS31851.1	ENSP00000315988	Q6NUT2
YES	CCDS135.1	ENSP00000294485	Q8NBI3
YES	CCDS14480.2	ENSP00000378635	Q13474
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YES	CCDS8384.1	ENSP00000315465	Q8TD84
YES	CCDS11898.1	ENSP00000257189	P32926
YES	CCDS45845.1	ENSP00000352785	Q86SJ6
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YES	CCDS4501.1	ENSP00000369129	P15924
YES	CCDS47443.1	ENSP00000244364	Q03001
YES	CCDS9643.1	ENSP00000312224	Q96FN9
YES	CCDS4534.1	ENSP00000341680	Q96EV8
YES	CCDS34216.1	ENSP00000425048	Q8NBA8
YES	CCDS5587.1	ENSP00000322885	Q86UW9
YES	CCDS13883.1	ENSP00000333917	Q8NEJ0
YES	CCDS9033.1	ENSP00000279488	Q16828
YES	CCDS5644.1	ENSP00000320130	O14576
YES	CCDS44717.1	ENSP00000381167	Q8NCM8
YES	CCDS53308.1	ENSP00000407323	
YES	CCDS14300.1	ENSP00000417052	Q15125
YES	CCDS215.1	ENSP00000364028	P42892
YES	CCDS2493.1	ENSP00000302051	O95672
YES	CCDS58860.1	ENSP00000376457	Q9H8V3
YES	CCDS43508.1	ENSP00000387388	Q008S8
YES	CCDS1363.2	ENSP00000318147	Q9BZQ6
YES	CCDS4522.1	ENSP00000368683	P05305
YES	CCDS55902.1	ENSP00000366416	P24530
YES	CCDS31874.1	ENSP00000317955	Q15075
YES	CCDS13522.1	ENSP00000217182	Q05639
YES	CCDS4507.1	ENSP00000369038	O43324
YES	CCDS11512.1	ENSP00000332111	Q8IY85
YES	CCDS45751.1	ENSP00000403932	Q8N7B9
YES	CCDS44803.1	ENSP00000409382	Q9BSW2



VEP annotated somatic variants

YES	CCDS33715.2	ENSP00000295824	Q8N7U6
YES	CCDS42071.1	ENSP00000268206	Q7Z2Z2
YES	CCDS11489.1	ENSP00000392094	Q15029
YES	CCDS14210.1	ENSP00000253039	P41091
YES	CCDS14617.1	ENSP00000311280	Q99607
YES	CCDS33642.1	ENSP00000385277	Q5R3F8
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YES	CCDS5562.2	ENSP00000252034	P15502
YES	CCDS4518.1	ENSP00000346693	Q9NXB9
YES	CCDS190.1	ENSP00000420608	Q8N766
YES	CCDS6309.1	ENSP00000220853	Q15006
YES	CCDS6309.1	ENSP00000220853	Q15006
YES	CCDS32154.1	ENSP00000334314	O00423
YES	CCDS32154.1	ENSP00000334314	O00423
YES	CCDS32154.1	ENSP00000334314	O00423
YES	CCDS2123.1	ENSP00000295206	Q05925
YES	CCDS48029.1	ENSP00000362299	P17813
YES	CCDS9389.1	ENSP00000261488	Q8TC92
YES	CCDS53556.1	ENSP00000360250	P49961
YES	CCDS9825.1	ENSP00000335246	O75356
YES	CCDS31929.2	ENSP00000374212	Q96L91
YES	CCDS5873.2	ENSP00000376684	O15197
YES	CCDS1547.1	ENSP00000355802	P07099
YES	CCDS6060.1	ENSP00000430269	P34913
YES	CCDS45762.1	ENSP00000401445	O75460
YES	CCDS8852.1	ENSP00000257934	Q14674
YES	CCDS3101.2	ENSP00000374218	A0FGR9
YES	CCDS32299.1	ENSP00000452762	P13804
YES	CCDS33085.1	ENSP00000346173	P38117
YES	CCDS12622.1	ENSP00000292147	O95571
YES	CCDS30774.1	ENSP00000359356	O60447
YES	CCDS54209.1	ENSP00000445905	Q96CN4
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YES	CCDS11737.1	ENSP00000301607	Q92817
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YES	CCDS53902.1	ENSP00000387331	Q9NVH0
YES	CCDS1620.1	ENSP00000355506	Q9UQ84
YES	CCDS3502.1	ENSP00000370695	Q9NV70
YES	CCDS5258.1	ENSP00000356042	P15311
YES	CCDS35457.1	ENSP00000353393	P00451
YES	CCDS35457.1	ENSP00000353393	P00451
YES	CCDS14666.1	ENSP00000218099	P00740
YES	CCDS14375.1	ENSP00000364035	Q6GMR7
YES	CCDS8012.1	ENSP00000278840	O95864
YES	CCDS8013.1	ENSP00000278829	Q9Y5Q0
YES	CCDS10314.1	ENSP00000385080	P16930
YES	CCDS14065.1	ENSP00000216214	Q9NWS6
YES	CCDS55501.1	ENSP00000359820	Q6P4D5
YES	CCDS55501.1	ENSP00000359820	Q6P4D5
YES	CCDS43996.1	ENSP00000375268	Q17RB0
YES	CCDS43996.1	ENSP00000375268	Q17RB0
YES	CCDS6375.2	ENSP00000378710	Q49AJ0
YES	CCDS43497.1	ENSP00000357545	Q5T6X4
YES	CCDS41689.1	ENSP00000348852	Q92567

VEP annotated somatic variants

YES	CCDS31648.1	ENSP00000365295	A6NEQ2
YES	CCDS47033.1	ENSP00000265018	Q9ULE4
YES	CCDS44878.1	ENSP00000329995	A6NE01
YES	CCDS12448.1	ENSP00000323355	Q17R55
YES	CCDS1103.1	ENSP00000354958	P81408
YES	CCDS44374.2	ENSP00000363482	Q9Y4E1
YES	CCDS53361.1	ENSP00000354669	Q8N5J2
YES	CCDS47383.1	ENSP00000259698	Q9Y4F9
YES	CCDS43341.1	ENSP00000283357	Q96LP2
YES	CCDS32515.1	ENSP00000373952	O15360
YES	CCDS4805.1	ENSP00000229769	Q9HB96
YES	CCDS4805.1	ENSP00000229769	Q9HB96
YES	CCDS4805.1	ENSP00000229769	Q9HB96
YES	CCDS8717.1	ENSP00000443291	Q96K12
YES	CCDS33424.1	ENSP00000264042	O94887
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YES	CCDS11801.1	ENSP00000304592	P49327
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YES	CCDS46761.1	ENSP00000384169	P98095
YES	CCDS12196.1	ENSP00000470498	Q75N90
YES	CCDS45010.1	ENSP00000396160	Q9HCM7
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YES	CCDS47966.1	ENSP00000403802	Q9UK96
YES	CCDS47966.1	ENSP00000403802	Q9UK96
YES	CCDS12526.1	ENSP00000292852	Q96EF6
YES	CCDS2764.1	ENSP00000296438	Q6X9E4
YES	CCDS31271.1	ENSP00000359149	P57775
YES	CCDS53468.1	ENSP00000316491	
YES	CCDS59365.1	ENSP00000473001	O14526
YES	CCDS4410.1	ENSP00000292408	P22455
YES	CCDS3788.1	ENSP00000336829	P02679
YES	CCDS32816.1	ENSP00000257209	Q2V2M9
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YES	CCDS2221.2	ENSP00000333836	Q5HY92
YES	CCDS3491.1	ENSP00000336752	Q6UN15
YES	CCDS43595.1	ENSP00000252037	O75344
YES	CCDS2280.1	ENSP00000413152	Q9Y680
YES	CCDS48194.1	ENSP00000358866	P21333
YES	CCDS54599.1	ENSP00000420213	O75369
YES	CCDS4457.1	ENSP00000261937	P35916
YES	CCDS31069.2	ENSP00000318884	Q9NZ56
YES	CCDS31069.2	ENSP00000318884	Q9NZ56
YES	CCDS1292.1	ENSP00000356729	P31513
YES	CCDS41644.1	ENSP00000263773	Q8N3X1
YES	CCDS41644.1	ENSP00000263773	Q8N3X1
YES	CCDS47512.1	ENSP00000297267	Q4ZHG4
YES	CCDS47512.1	ENSP00000297267	Q4ZHG4
YES	CCDS4472.1	ENSP00000259806	Q12947
YES	CCDS34447.1	ENSP00000362151	Q8IVH2
YES	CCDS35148.1	ENSP00000362344	Q05932
YES	CCDS54771.1	ENSP00000264895	Q86XX4
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VEP annotated somatic variants

YES	CCDS54771.1	ENSP00000264895	Q86XX4
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YES	CCDS54808.1	ENSP00000332886	P0C091
YES	CCDS7101.1	ENSP00000350032	Q9P2Q2
YES	CCDS10050.1	ENSP00000280236	Q8NA03
YES	CCDS3802.1	ENSP00000305334	Q8N475
YES	CCDS43893.1	ENSP00000318177	Q96I24
YES	CCDS12733.1	ENSP00000312021	P19526
YES	CCDS12152.1	ENSP00000313398	P51993
YES	CCDS8386.1	ENSP00000292079	P54710
YES	CCDS2734.1	ENSP00000296137	Q9BQS8
YES	CCDS2649.2	ENSP00000282538	Q6ZQY3
YES	CCDS3340.1	ENSP00000314499	O14976
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YES	CCDS9878.2	ENSP00000261304	P54803
YES	CCDS9878.2	ENSP00000261304	P54803
YES	CCDS11728.1	ENSP00000465930	P51570
YES	CCDS4325.1	ENSP00000297107	Q86SR1
YES	CCDS58706.1	ENSP00000314500	Q96FL9
YES	CCDS8533.1	ENSP00000252318	Q9NY28
YES	CCDS8533.1	ENSP00000252318	Q9NY28
YES	CCDS56057.1	ENSP00000269209	Q9H706
YES	CCDS56057.1	ENSP00000269209	Q9H706
YES	CCDS56057.1	ENSP00000269209	Q9H706
YES	CCDS6869.2	ENSP00000362485	Q5VWV2
YES	CCDS722.1	ENSP00000340396	Q96PP8
YES	CCDS722.1	ENSP00000340396	Q96PP8
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YES	CCDS54177.1	ENSP00000383558	P47871
YES	CCDS34338.1	ENSP00000368917	Q8N0V5
YES	CCDS56576.1	ENSP00000238018	Q9Y2T3
YES	CCDS13328.1	ENSP00000341782	Q96MZ0
YES	CCDS7219.1	ENSP00000249598	Q9UK05
YES	CCDS9669.1	ENSP00000308533	O14893
YES	CCDS33885.1	ENSP00000419038	Q96RP9
YES	CCDS1978.1	ENSP00000233838	P38435
YES	CCDS12516.1	ENSP00000334940	Q86UU5
YES	CCDS12516.1	ENSP00000334940	Q86UU5
YES	CCDS11422.1	ENSP00000301671	Q8N2G8
YES	CCDS5216.1	ENSP00000356389	Q9NU53
YES	CCDS33451.1	ENSP00000262460	Q14691
YES	CCDS32485.1	ENSP00000205061	Q92896
YES	CCDS32485.1	ENSP00000205061	Q92896
YES	CCDS10511.1	ENSP00000262366	Q9BZE0
YES	CCDS4837.1	ENSP00000362463	Q04760
YES	CCDS43980.2	ENSP00000361700	Q5JXX5
YES	CCDS43980.2	ENSP00000361700	Q5JXX5
YES	CCDS9096.1	ENSP00000354053	Q9H1C3
YES	CCDS41649.1	ENSP00000287275	Q8WU03
YES	CCDS1895.1	ENSP00000282570	Q96IK5
YES	CCDS13804.1	ENSP00000248996	P19086
YES	CCDS13768.1	ENSP00000331313	Q9BYB4
YES	CCDS3517.1	ENSP00000226413	P30968
YES	CCDS9281.1	ENSP00000204726	Q08378

VEP annotated somatic variants

YES	CCDS54068.1	ENSP00000329380	P07359
YES	CCDS9469.1	ENSP00000366246	Q9Y625
YES	CCDS4553.1	ENSP00000230036	P80108
YES	CCDS35206.1	ENSP00000316861	Q13491
YES	CCDS1760.2	ENSP00000264718	
YES	CCDS14662.1	ENSP00000298110	Q96P66
		ENSP00000475778	Q86SQ6
YES	CCDS41580.1	ENSP00000376384	Q86SQ6
YES	CCDS41580.1	ENSP00000376384	Q86SQ6
YES	CCDS41580.1	ENSP00000376384	Q86SQ6
YES	CCDS10051.1	ENSP00000453076	Q14439
YES	CCDS53720.1	ENSP00000436500	Q3KR37
YES	CCDS33826.1	ENSP00000350881	Q8IYS0
YES	CCDS33672.1	ENSP00000385689	Q6IC98
YES	CCDS33672.1	ENSP00000385689	Q6IC98
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YES	CCDS42655.1	ENSP00000370896	Q4ZG55
YES	CCDS58987.1	ENSP00000428994	P42261
YES	CCDS3797.1	ENSP00000296526	P42262
YES	CCDS14604.1	ENSP00000264357	P42263
YES	CCDS43042.1	ENSP00000350348	Q14831
YES	CCDS10952.1	ENSP00000253458	Q14687
YES	CCDS6828.1	ENSP00000362924	P06396
YES	CCDS14336.1	ENSP00000341247	Q8IYD1
YES	CCDS41679.1	ENSP00000381607	P09211
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YES	CCDS31132.1	ENSP00000354040	Q9BZE4
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YES	CCDS46870.1	ENSP00000374268	A0PJZ3
YES	CCDS9058.1	ENSP00000261208	P42357
YES	CCDS12454.1	ENSP00000471894	P81172
YES	CCDS8756.2	ENSP00000080059	Q8WUI4
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YES	CCDS47553.1	ENSP00000408617	Q9UKV0
YES	CCDS43503.1	ENSP00000381220	Q7Z4H3
YES	CCDS48076.1	ENSP00000396452	Q08623
YES	CCDS31066.1	ENSP00000355541	Q9H583
YES	CCDS31066.1	ENSP00000355541	Q9H583
YES	CCDS31066.1	ENSP00000355541	Q9H583
YES	CCDS34580.1	ENSP00000297440	Q86Y56
YES	CCDS41939.1	ENSP00000382269	Q9ULT8
YES	CCDS41939.1	ENSP00000382269	Q9ULT8
YES	CCDS7434.1	ENSP00000239027	Q9NRZ9
YES	CCDS7434.1	ENSP00000239027	Q9NRZ9
YES	CCDS2830.1	ENSP00000232854	Q9Y5R4
YES	CCDS45277.1	ENSP00000390158	Q15751
YES	CCDS4578.1	ENSP00000417404	Q30201
YES	CCDS5597.1	ENSP00000222390	P14210
YES	CCDS2704.1	ENSP00000405423	Q9HCP6
YES	CCDS45162.1	ENSP00000330601	Q96JK4
YES	CCDS11488.1	ENSP00000253410	Q9P298
YES	CCDS4147.1	ENSP00000304229	P49773
YES	CCDS4592.1	ENSP00000353074	P62807
YES	CCDS4590.1	ENSP00000367062	P68431

VEP annotated somatic variants

YES	CCDS4572.1	ENSP00000366581	P62805	
YES	CCDS7288.1	ENSP00000346643	Q2TB90	
YES	CCDS4765.1	ENSP00000408146	P04440	
YES	CCDS13647.1	ENSP00000382071	P50747	
YES	CCDS33875.1	ENSP00000308944	Q14527	
YES	CCDS8409.1	ENSP00000278715	P08397	
YES	CCDS33641.1	ENSP00000216106	Q9UGU5	
YES	CCDS33641.1	ENSP00000216106	Q9UGU5	
YES	CCDS9209.1	ENSP00000257555		E0YM
YES	CCDS12576.1	ENSP00000375863	Q9BUJ2	
YES	CCDS42508.1	ENSP00000380785	Q96ED9	
YES	CCDS32993.1	ENSP00000262626	P05981	
YES	CCDS7527.1	ENSP00000299238	Q86YV9	
YES	CCDS12475.1	ENSP00000468057	O14558	
YES	CCDS5936.1	ENSP00000287907	P47898	
YES	CCDS35301.1	ENSP00000340648	Q7Z6Z7	
YES	CCDS35301.1	ENSP00000340648	Q7Z6Z7	
YES	CCDS42952.1	ENSP00000384432	O75144	
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YES	CCDS10359.1	ENSP00000331897	P48735	
YES	CCDS10297.1	ENSP00000299518	P50213	
YES	CCDS1180.3	ENSP00000357113	Q16666	
YES	CCDS13621.1	ENSP00000343957	P48551	
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YES	CCDS55491.1	ENSP00000359940	Q8N6C5	
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YES	CCDS46891.1	ENSP00000377370	Q5DX21	
YES	CCDS41625.2	ENSP00000421191	Q8N9C0	
YES	CCDS61010.1	ENSP00000436552		
YES	CCDS6773.1	ENSP00000363779	O95163	
YES	CCDS2590.1	ENSP00000295981	Q8NAC3	
YES	CCDS5181.1	ENSP00000314976	Q9UHF4	
YES	CCDS247.1	ENSP00000270800	Q8N6P7	
YES	CCDS7076.1	ENSP00000369293	P01589	
YES	CCDS10665.1	ENSP00000457016	Q8NBZ0	
YES	CCDS7729.1	ENSP00000380432	P01308	
YES	CCDS41598.1	ENSP00000380440	F8WCM5	
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YES	CCDS47526.1	ENSP00000385722	Q8N201	
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YES	CCDS9428.1	ENSP00000310260	Q9UL03	
YES	CCDS34188.1	ENSP00000274364	Q13576	
YES	CCDS1144.1	ENSP00000354451	Q86VI3	
YES	CCDS53728.1	ENSP00000437554	Q9UPP2	
YES	CCDS43645.1	ENSP00000349770	Q13568	
YES	CCDS12629.1	ENSP00000244314	Q6NXR0	

## VEP annotated somatic variants

YES	CCDS918.1	ENSP00000358310	Q75578
YES	CCDS918.1	ENSP00000358310	O75578
YES	CCDS42788.1	ENSP00000380227	P13612
YES	CCDS2669.1	ENSP00000264741	Q13797
YES	CCDS2865.1	ENSP00000266041	Q14624
YES	CCDS2865.1	ENSP00000266041	Q14624
YES	CCDS2865.1	ENSP00000266041	Q14624
YES	CCDS14444.1	ENSP00000362395	O43736
YES	CCDS1555.1	ENSP00000411152	P27987
YES	CCDS41764.1	ENSP00000370744	Q14571
YES	CCDS41764.1	ENSP00000370744	Q14571
YES	CCDS4783.1	ENSP00000363435	Q14573
YES	CCDS7557.1	ENSP00000278071	Q8IWB1
YES	CCDS33545.1	ENSP00000370719	Q15811
YES	CCDS33545.1	ENSP00000370719	Q15811
YES	CCDS34062.1	ENSP00000226319	Q6IE81
YES	CCDS14271.1	ENSP00000218343	Q92613
YES	CCDS44494.1	ENSP00000298622	Q5VZ66
YES	CCDS4533.1	ENSP00000341280	Q92833
YES	CCDS4533.1	ENSP00000341280	Q92833
YES	CCDS4533.1	ENSP00000341280	Q92833
YES	CCDS8308.1	ENSP00000389989	Q9Y4A0
YES	CCDS34976.1	ENSP00000371740	Q14678
YES	CCDS620.1	ENSP00000360195	Q5T7N3
YES	CCDS620.1	ENSP00000360195	Q5T7N3
YES	CCDS620.1	ENSP00000360195	Q5T7N3
YES	CCDS5217.1	ENSP00000356381	O75449
YES	CCDS12755.1	ENSP00000221444	Q96RP8
YES	CCDS3174.1	ENSP00000419952	Q14722
YES	CCDS55220.1	ENSP00000382770	A8MYU2
YES			
YES	CCDS9128.1	ENSP00000228495	Q9H3F6
YES	CCDS9396.1	ENSP00000385144	Q8WVF5
YES	CCDS34242.1	ENSP00000326563	Q7LBC6
YES	CCDS491.1	ENSP00000361473	O75164
YES	CCDS12138.1	ENSP00000159111	O94953
YES	CCDS14794.1	ENSP00000322408	Q9BY66
YES	CCDS14265.1	ENSP00000367203	O15550
YES	CCDS43658.1	ENSP00000380692	Q6ZMT4
YES	CCDS43658.1	ENSP00000380692	Q6ZMT4
YES	CCDS43658.1	ENSP00000380692	Q6ZMT4
YES	CCDS33666.1	ENSP00000251993	Q6ICG6
YES	CCDS43267.1	ENSP00000264501	Q2LD37
YES	CCDS5189.2	ENSP00000251691	Q5TH69
YES	CCDS34923.1	ENSP00000297591	Q69YN4
YES	CCDS46017.1	ENSP00000376213	Q9H0B3
YES	CCDS5090.1	ENSP00000357840	Q5TF39
YES	CCDS30963.1	ENSP00000356319	Q15058
YES	CCDS213.1	ENSP00000247986	Q9P2E2
YES	CCDS32718.2	ENSP00000374566	Q2TAC6
YES	CCDS58757.1	ENSP00000438388	Q12756
YES	CCDS11065.1	ENSP00000320821	O43896
YES	CCDS7407.1	ENSP00000260753	Q96Q89
YES	CCDS1288.1	ENSP00000354560	Q92845
YES	CCDS7080.1	ENSP00000368881	O60870

VEP annotated somatic variants

YES	CCDS6294.1	ENSP00000285407	Q13118
YES	CCDS54815.1	ENSP00000424198	O95198
YES	CCDS3617.1	ENSP00000273963	Q9P2G9
YES	CCDS8599.1	ENSP00000349477	Q96E93
YES	CCDS5931.1	ENSP00000262189	Q8NEZ4
YES	CCDS7674.1	ENSP00000304437	Q76NI1
YES	CCDS45002.1	ENSP00000328236	P50748
YES	CCDS47651.1	ENSP00000330878	A9QM74
YES	CCDS11513.1	ENSP00000290158	Q14974
YES	CCDS13849.1	ENSP00000331242	Q96MU8
YES	CCDS11377.1	ENSP00000269576	P13645
YES	CCDS11393.1	ENSP00000225899	Q14532
YES	CCDS11395.1	ENSP00000329165	O76013
YES	CCDS42961.1	ENSP00000381009	P60411
YES	CCDS42964.1	ENSP00000381005	P60328
YES	CCDS42963.1	ENSP00000375476	P60329
YES	CCDS14011.1	ENSP00000216237	Q969R5
YES	CCDS5138.1	ENSP00000400365	P24043
YES	CCDS5138.1	ENSP00000400365	P24043
YES	CCDS43491.1	ENSP00000230538	Q16363
YES	CCDS43491.1	ENSP00000230538	Q16363
YES	CCDS1351.1	ENSP00000258341	P11047
YES	CCDS1351.1	ENSP00000258341	P11047
YES	CCDS1351.1	ENSP00000258341	P11047
YES	CCDS1352.1	ENSP00000264144	Q13753
YES	CCDS34551.1	ENSP00000437550	O95835
YES	CCDS1015.1	ENSP00000334644	Q5T5A8
YES	CCDS35183.1	ENSP00000360753	Q6JVE9
YES	CCDS30624.1	ENSP00000340988	Q5SZI1
YES	CCDS8972.1	ENSP00000308369	Q9Y2U8
YES	CCDS34587.1	ENSP00000222725	Q8NES3
YES	CCDS12890.1	ENSP00000291759	P59901
YES	CCDS5563.1	ENSP00000336740	P53667
YES	CCDS45905.1	ENSP00000467753	P0C6S8
YES	CCDS8780.2	ENSP00000267102	Q6UX01
YES	CCDS53876.1	ENSP00000433352	
YES	CCDS4087.1	ENSP00000231368	Q9UIQ6
YES	CCDS5987.2	ENSP00000381298	Q17RB8
YES	CCDS35374.1	ENSP00000360690	Q496Y0
YES	CCDS35374.1	ENSP00000360690	Q496Y0
YES	CCDS10253.1	ENSP00000261921	Q08397
YES	CCDS3291.1	ENSP00000318089	Q93052
YES	CCDS8701.1	ENSP00000346442	Q12912
YES	CCDS2182.1	ENSP00000374135	Q9NZR2
YES	CCDS8181.1	ENSP00000294304	O75197
YES	CCDS33626.1	ENSP00000384291	A4QPB2
YES	CCDS33626.1	ENSP00000384291	A4QPB2
YES	CCDS3371.1	ENSP00000421922	P30533
YES	CCDS9686.1	ENSP00000298288	Q96L50
YES	CCDS31197.1	ENSP00000363275	Q8N456
YES	CCDS43750.1	ENSP00000353538	Q9C099
YES	CCDS41816.1	ENSP00000376910	Q96JM4
YES	CCDS33922.1	ENSP00000265245	Q9H089
YES	CCDS12435.1	ENSP00000446271	Q8ND56
YES	CCDS3767.1	ENSP00000422392	P62312

VEP annotated somatic variants

YES	CCDS13733.1	ENSP00000380837	P48449
YES	CCDS33527.2	ENSP00000373846	O94822
YES	CCDS31446.1	ENSP00000336817	Q86TE4
YES	CCDS12587.1	ENSP00000328737	Q6UWN0
YES	CCDS986.1	ENSP00000357904	Q96S90
YES	CCDS7507.1	ENSP00000359240	Q9BRK4
YES	CCDS7507.1	ENSP00000359240	Q9BRK4
YES	CCDS43539.1	ENSP00000385334	Q9Y6D9
YES	CCDS3715.1	ENSP00000296509	Q13257
YES	CCDS14720.1	ENSP00000349085	P43355
YES	CCDS14710.1	ENSP00000377478	P43365
YES	CCDS14221.1	ENSP00000368266	O15481
YES	CCDS35417.1	ENSP00000285879	O60732
YES	CCDS14678.1	ENSP00000354660	Q9UBF1
YES	CCDS14362.1	ENSP00000364209	Q9UNF1
YES	CCDS7010.1	ENSP00000319388	Q6UXC1
YES	CCDS55526.1	ENSP00000414517	Q13495
YES	CCDS5122.1	ENSP00000357453	P33908
YES	CCDS34209.1	ENSP00000261483	Q16706
YES	CCDS33951.1	ENSP00000285599	Q9Y2E5
YES	CCDS32954.1	ENSP00000325313	Q66K74
YES		ENSP00000345629	Q6ZN16
YES	CCDS32701.1	ENSP00000354927	Q99759
YES	CCDS59385.1	ENSP00000465039	Q92918
YES	CCDS56130.1	ENSP00000314363	O95819
YES	CCDS2832.1	ENSP00000396467	Q16644
YES	CCDS32921.1	ENSP00000251472	Q9Y2H9
YES	CCDS32921.1	ENSP00000251472	Q9Y2H9
YES	CCDS54861.1	ENSP00000385727	
YES	CCDS13348.1	ENSP00000440328	O95460
YES	CCDS3241.1	ENSP00000265594	Q96RQ3
YES	CCDS13734.1	ENSP00000380820	O60318
YES	CCDS47417.1	ENSP00000402584	Q8NFP4
YES	CCDS5024.1	ENSP00000358400	Q9NU22
YES	CCDS5024.1	ENSP00000358400	Q9NU22
YES	CCDS48193.1	ENSP00000395535	P51608
YES	CCDS14254.1	ENSP00000323720	O60244
YES	CCDS6963.1	ENSP00000420393	Q15528
YES	CCDS33075.1	ENSP00000326767	Q71SY5
YES	CCDS33021.1	ENSP00000314343	
YES	CCDS46024.1	ENSP00000162023	Q02080
YES	CCDS41237.1	ENSP00000348982	O75095
YES	CCDS45846.1	ENSP00000269202	Q16820
YES	CCDS2094.1	ENSP00000295408	Q12866
YES	CCDS32044.1	ENSP00000298717	Q86U44
YES		ENSP00000364407	E7ETE0,1
YES	CCDS42464.1	ENSP00000381566	Q6NUT3
YES	CCDS45788.1	ENSP00000391227	Q3V5L5
YES	CCDS45788.1	ENSP00000391227	Q3V5L5
YES	CCDS45788.1	ENSP00000391227	Q3V5L5
YES	CCDS7660.2	ENSP00000302111	P16455
YES	CCDS46659.1	ENSP00000416015	Q7RTP6
YES	CCDS46659.1	ENSP00000416015	Q7RTP6
YES	CCDS46659.1	ENSP00000416015	Q7RTP6
YES	CCDS14138.1	ENSP00000312678	O15344



VEP annotated somatic variants

YES	CCDS45588.1	ENSP00000347427	Q8N4C8
YES	CCDS45588.1	ENSP00000347427	Q8N4C8
YES	CCDS9206.1	ENSP00000228506	Q14165
YES	CCDS1598.1	ENSP00000355583	Q5TCX8
YES	CCDS12160.1	ENSP00000252674	Q03111
YES	CCDS7647.1	ENSP00000357798	Q8N119
YES	CCDS34788.1	ENSP00000252971	P50219
YES	CCDS12081.1	ENSP00000349575	Q96BX8
YES	CCDS14525.2	ENSP00000347821	Q8TE76
YES	CCDS14525.2	ENSP00000347821	Q8TE76
		ENSP00000368850	H0YNX3,H0YN
YES	CCDS8392.1	ENSP00000278949	Q6UWV2
YES	CCDS8299.1	ENSP00000325863	P49959
YES	CCDS41342.2	ENSP00000396622	Q68CQ1
YES	CCDS41342.2	ENSP00000396622	Q68CQ1
YES	CCDS41342.2	ENSP00000396622	Q68CQ1
YES	CCDS11517.1	ENSP00000290208	Q7Z7H8
YES	CCDS7046.1	ENSP00000360498	Q8IXM3
YES	CCDS7504.1	ENSP00000339844	
YES	CCDS4866.1	ENSP00000053468	P82664
YES	CCDS55746.1	ENSP00000412130	Q9Y6F6
YES	CCDS1834.1	ENSP00000233146	P43246
YES	CCDS3809.1	ENSP00000261507	Q15800
YES	CCDS127.1	ENSP00000354558	P42345
YES	CCDS1614.1	ENSP00000355536	Q99707
YES	CCDS1614.1	ENSP00000355536	Q99707
YES	CCDS1614.1	ENSP00000355536	Q99707
YES	CCDS1614.1	ENSP00000355536	Q99707
YES	CCDS3651.1	ENSP00000400821	P55157
YES	CCDS54212.1	ENSP00000381008	
YES	CCDS54212.1	ENSP00000381008	
YES		ENSP00000476404	
YES		ENSP00000476404	
YES		ENSP00000415183	Q9UM
YES	CCDS10968.1	ENSP00000301012	P53602
YES	CCDS14124.1	ENSP00000217939	Q9NR99
YES	CCDS45815.1	ENSP00000386702	A6NDP7
YES	CCDS53621.1	ENSP00000442795	Q14896
YES	CCDS45423.1	ENSP00000379616	P35749
YES	CCDS43127.1	ENSP00000273353	Q9Y2K3
YES	CCDS9601.1	ENSP00000347507	P12883
YES	CCDS9601.1	ENSP00000347507	P12883
YES	CCDS9601.1	ENSP00000347507	P12883
YES	CCDS13927.1	ENSP00000216181	P35579
YES	CCDS46896.1	ENSP00000353452	Q15746
YES	CCDS42271.1	ENSP00000205890	Q9UKN7
YES	CCDS54507.1	ENSP00000334563	
YES	CCDS54112.1	ENSP00000409936	Q96H55
YES	CCDS42494.1	ENSP00000344871	O00160
YES	CCDS42037.1	ENSP00000382177	Q9Y4I1
YES	CCDS46010.1	ENSP00000471457	Q13459
YES	CCDS1433.1	ENSP00000241651	P15173
YES	CCDS7275.1	ENSP00000351790	Q86TC9
YES	CCDS44622.1	ENSP00000278836	Q9Y2G1
YES	CCDS41343.1	ENSP00000418734	Q5VVJ2

VEP annotated somatic variants

YES	CCDS6673.1	ENSP00000354972	Q5VZE5
YES	CCDS6993.1	ENSP00000360818	Q96BF6
YES	CCDS10527.1	ENSP00000310998	Q9UK23
YES	CCDS12794.1	ENSP00000253719	O96009
YES	CCDS11706.1	ENSP00000350467	Q9BTE0
YES	CCDS1685.1	ENSP00000281513	A2RRP1
YES	CCDS45694.1	ENSP00000411250	Q14596
YES	CCDS45694.1	ENSP00000411250	Q14596
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YES	CCDS45694.1	ENSP00000411250	Q14596
YES	CCDS12397.1	ENSP00000252575	O14594
YES	CCDS8548.1	ENSP00000325017	Q15021
YES	CCDS31723.1	ENSP00000433681	P42695
YES	CCDS2021.1	ENSP00000240423	Q15003
YES	CCDS13241.1	ENSP00000363929	Q14686
YES	CCDS11175.1	ENSP00000268712	O75376
YES	CCDS1224.1	ENSP00000356972	O75306
YES	CCDS54407.1	ENSP00000380505	
YES	CCDS54407.1	ENSP00000380505	
YES	CCDS54407.1	ENSP00000380505	
YES	CCDS3358.2	ENSP00000372335	Q9H3P2
YES	CCDS1505.1	ENSP00000355955	Q9UMX5
YES	CCDS1505.1	ENSP00000355955	Q9UMX5
YES	CCDS41351.1	ENSP00000333938	Q0ZGT2
YES	CCDS3657.1	ENSP00000226574	P19838
YES	CCDS41564.1	ENSP00000358983	Q00653
YES	CCDS2946.1	ENSP00000325663	Q9BYH8
YES	CCDS4542.1	ENSP00000345464	Q6VVB1
YES	CCDS55063.1	ENSP00000394546	Q5SYE7
YES	CCDS1608.1	ENSP00000264187	P14543
YES	CCDS32079.1	ENSP00000371472	Q8N4C6
YES	CCDS30631.1	ENSP00000363520	Q6P499
YES	CCDS47328.1	ENSP00000311687	Q0D2K0
YES	CCDS3920.1	ENSP00000282516	Q6KC79
YES	CCDS13860.1	ENSP00000216121	Q9BPW8
YES	CCDS33767.1	ENSP00000339958	Q9Y2I1
YES	CCDS9660.1	ENSP00000258829	O15522
YES	CCDS55441.1	ENSP00000351591	Q9NZ94
YES	CCDS33174.1	ENSP00000385090	Q9NPP4
YES	CCDS12938.1	ENSP00000375063	P59047
YES	CCDS12938.1	ENSP00000375063	P59047
YES	CCDS12938.1	ENSP00000375063	P59047
YES	CCDS12934.1	ENSP00000331857	Q7RTR0
YES	CCDS9277.1	ENSP00000328854	Q9BVI4
YES	CCDS6543.1	ENSP00000297990	Q9H6R4
YES	CCDS33945.1	ENSP00000405068	P78316
YES	CCDS13030.1	ENSP00000370589	O00567
YES	CCDS1237.1	ENSP00000355133	O75052
YES	CCDS5912.1	ENSP00000297494	P29474
YES	CCDS5912.1	ENSP00000297494	P29474
YES	CCDS43905.1	ENSP00000277541	P46531
YES	CCDS43905.1	ENSP00000277541	P46531
YES	CCDS5491.1	ENSP00000289547	Q9UHC9
YES	CCDS53539.1	ENSP00000277942	Q9GZQ6
YES	CCDS5443.1	ENSP00000352839	Q6W5P4

VEP annotated somatic variants

YES	CCDS5657.1	ENSP00000265634	P47972
YES	CCDS33718.1	ENSP00000310006	Q14995
YES	CCDS41429.1	ENSP00000356959	Q14994
YES	CCDS9890.1	ENSP00000346335	Q9H7Z3
YES	CCDS4412.1	ENSP00000395929	Q96L73
YES	CCDS3869.1	ENSP00000264670	Q08J23
YES	CCDS46843.1	ENSP00000406933	
YES	CCDS12754.1	ENSP00000301411	P34130
YES	CCDS5490.2	ENSP00000347626	Q8IVD9
YES	CCDS9393.1	ENSP00000368459	Q9UHK0
YES	CCDS47833.1	ENSP00000408697	Q68CJ6
YES	CCDS8985.1	ENSP00000229179	P57740
YES	CCDS6940.1	ENSP00000352400	P35658
YES	CCDS5218.1	ENSP00000342262	Q8NFB3
YES	CCDS14062.1	ENSP00000345895	Q9UKX7
YES	CCDS3576.1	ENSP00000264883	Q7Z3B4
YES	CCDS3576.1	ENSP00000264883	Q7Z3B4
YES	CCDS11070.1	ENSP00000458954	Q99567
YES	CCDS11070.1	ENSP00000458954	Q99567
YES	CCDS14503.1	ENSP00000378504	Q9H4D5
YES	CCDS14491.2	ENSP00000442401	Q9H1B4
YES	CCDS14491.2	ENSP00000442401	Q9H1B4
YES	CCDS14491.2	ENSP00000442401	Q9H1B4
YES	CCDS10998.1	ENSP00000337443	Q6DKJ4
YES	CCDS34445.1	ENSP00000420484	Q9Y530
YES	CCDS46520.1	ENSP00000385636	O75147
YES	CCDS11812.1	ENSP00000330075	Q6PK18
YES	CCDS33052.1	ENSP00000319817	Q9H6K4
YES	CCDS34696.1	ENSP00000313936	Q8NHA4
YES	CCDS11023.1	ENSP00000313803	P47881
YES	CCDS31499.1	ENSP00000325128	Q8NH70
YES	CCDS31497.1	ENSP00000367664	Q8NH83
YES	CCDS31502.1	ENSP00000324913	Q8NGL9
YES	CCDS7757.1	ENSP00000369573	Q9Y5P0
YES	CCDS31398.1	ENSP00000322823	Q8NH53
YES	CCDS32042.1	ENSP00000302057	Q8NGC0
YES	CCDS33799.1	ENSP00000373195	A6NDH6
YES	CCDS7949.1	ENSP00000301532	Q13606
YES	CCDS31525.1	ENSP00000323612	Q8NG75
YES	CCDS13495.1	ENSP00000316649	Q9H1P3
YES	CCDS10939.1	ENSP00000355374	Q9UJX0
YES	CCDS10939.1	ENSP00000355374	Q9UJX0
YES	CCDS3928.1	ENSP00000274276	Q99650
YES	CCDS10026.1	ENSP00000305926	Q8TE49
YES	CCDS9573.1	ENSP00000285848	
YES	CCDS14398.1	ENSP00000363643	P51582
YES	CCDS11787.1	ENSP00000327801	P07237
YES	CCDS44115.1	ENSP00000361949	Q13310
YES	CCDS8129.1	ENSP00000316454	Q6VY07
YES	CCDS14368.1	ENSP00000289619	Q96GU1
YES	CCDS32857.1	ENSP00000341911	O75781
YES	CCDS31244.1	ENSP00000302108	Q8TE04
YES	CCDS31244.1	ENSP00000302108	Q8TE04
YES	CCDS42.1	ENSP00000367727	Q9NVE7
YES	CCDS1863.1	ENSP00000238714	Q9BWT3

VEP annotated somatic variants

YES	CCDS597.1	ENSP00000360327	Q7L3T8
YES	CCDS44541.2	ENSP00000334008	
YES	CCDS46724.1	ENSP00000384515	Q9HBI1
YES	CCDS46398.1	ENSP00000395498	Q06710
YES	CCDS5190.1	ENSP00000432353	Q9GZY1
YES	CCDS44404.1	ENSP00000354950	
YES	CCDS9444.1	ENSP00000442186	Q9HC56
YES	CCDS47630.1	ENSP00000334319	Q9Y6V0
YES	CCDS59041.1	ENSP00000356354	
YES	CCDS33592.1	ENSP00000352572	O95613
YES	CCDS33772.1	ENSP00000309142	Q6L8Q7
YES	CCDS2285.1	ENSP00000410309	P54750
YES	CCDS8216.1	ENSP00000334910	O00408
YES	CCDS7429.1	ENSP00000360502	P51160
YES	CCDS3495.1	ENSP00000257290	P16234
YES	CCDS4303.1	ENSP00000261799	P09619
YES	CCDS4303.1	ENSP00000261799	P09619
YES	CCDS31168.1	ENSP00000365388	Q5T2R2
YES	CCDS32393.1	ENSP00000379691	Q6P996
YES	CCDS32393.1	ENSP00000379691	Q6P996
YES	CCDS31269.1	ENSP00000359234	Q9H5P4
YES	CCDS42062.1	ENSP00000452796	Q9H792
YES	CCDS30892.1	ENSP00000344465	Q5VY43
YES	CCDS30892.1	ENSP00000344465	Q5VY43
YES	CCDS30892.1	ENSP00000344465	Q5VY43
YES	CCDS42544.1	ENSP00000244137	P12955
YES	CCDS42544.1	ENSP00000244137	P12955
YES	CCDS7059.1	ENSP00000370517	Q01813
YES	CCDS7059.1	ENSP00000370517	Q01813
YES	CCDS2318.1	ENSP00000346809	Q75T13
YES	CCDS14438.1	ENSP00000362413	P00558
YES	CCDS12330.2	ENSP00000345968	Q96PD5
YES	CCDS1035.1	ENSP00000290722	Q96LB9
YES	CCDS35069.1	ENSP00000352185	O75151
YES	CCDS4987.1	ENSP00000275034	Q8WWQ0
YES	CCDS14421.1	ENSP00000362643	P46020
YES	CCDS8401.1	ENSP00000354498	Q86UU1
YES	CCDS44507.1	ENSP00000410626	Q9P1Y6
YES	CCDS833.1	ENSP00000358753	Q8TCI5
YES	CCDS674.1	ENSP00000359848	Q92643
YES	CCDS45879.1	ENSP00000350263	O95427
YES	CCDS11313.1	ENSP00000468778	Q7Z7B1
YES	CCDS11147.1	ENSP00000392812	Q8WYR1
YES	CCDS2382.1	ENSP00000264380	Q9Y2I7
YES	CCDS33678.1	ENSP00000353824	Q86V86
YES	CCDS33623.1	ENSP00000330031	Q7Z3Z3
YES	CCDS14393.1	ENSP00000355014	Q8NG27
YES	CCDS4935.1	ENSP00000360158	P08F94
YES	CCDS8731.1	ENSP00000070846	Q99959
YES	CCDS4917.1	ENSP00000274793	Q13093
YES	CCDS6126.1	ENSP00000220809	P00750
YES	CCDS33168.1	ENSP00000330442	Q6P1J6
YES	CCDS41552.1	ENSP00000360431	Q9P212
YES	CCDS41552.1	ENSP00000360431	Q9P212

VEP annotated somatic variants

YES	CCDS41552.1	ENSP00000360431	Q9P212
YES	CCDS41552.1	ENSP00000360431	Q9P212
YES	CCDS42204.1	ENSP00000352336	P16885
YES		ENSP00000397289	O75038
YES		ENSP00000397289	O75038
YES	CCDS43772.1	ENSP00000323856	Q15149
YES	CCDS43772.1	ENSP00000323856	Q15149
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YES	CCDS43772.1	ENSP00000323856	Q15149
YES	CCDS57969.1	ENSP00000439625	O94827
YES	CCDS45128.1	ENSP00000330278	Q9ULM0
YES	CCDS45128.1	ENSP00000330278	Q9ULM0
YES	CCDS45128.1	ENSP00000330278	Q9ULM0
YES	CCDS4.1	ENSP00000368720	Q494U1
YES	CCDS59328.1	ENSP00000466248	Q496M5
YES	CCDS11333.1	ENSP00000323927	Q8IUK5
YES	CCDS43035.1	ENSP00000409171	O15031
YES	CCDS5043.1	ENSP00000358242	Q8TF01
YES	CCDS54997.1	ENSP00000378072	Q8N8W4
YES	CCDS14054.1	ENSP00000216180	Q9NST1
YES	CCDS54206.1	ENSP00000407509	Q8IY17
YES	CCDS55860.1	ENSP00000447852	
YES	CCDS31585.1	ENSP00000301788	P62487
YES	CCDS13135.1	ENSP00000366828	Q9H1D9
YES	CCDS13135.1	ENSP00000366828	Q9H1D9
YES	CCDS9364.1	ENSP00000369071	Q15063
YES	CCDS55274.1	ENSP00000419298	Q06416
YES	CCDS2609.1	ENSP00000287820	P37231
YES	CCDS2609.1	ENSP00000287820	P37231
YES	CCDS46670.1	ENSP00000390427	Q13356
YES	CCDS11613.1	ENSP00000312411	Q8WY54
YES	CCDS1221.1	ENSP00000356978	P50336
YES	CCDS32767.1	ENSP00000331065	Q86WC6
YES		ENSP00000399970	Q66LE6
YES	CCDS3087.1	ENSP00000264977	Q06190
YES	CCDS14309.1	ENSP00000218224	O60828
YES	CCDS3716.1	ENSP00000264808	Q9NQX1
YES	CCDS43243.1	ENSP00000339764	Q9NQV8
YES	CCDS14206.1	ENSP00000368646	Q13162
YES	CCDS14206.1	ENSP00000368646	Q13162
YES	CCDS14206.1	ENSP00000368646	Q13162
YES	CCDS5053.1	ENSP00000358106	P48147
YES	CCDS6201.1	ENSP00000288368	Q70Z35
YES	CCDS7955.1	ENSP00000312134	P13727
YES	CCDS3837.1	ENSP00000313816	Q96LW4
YES	CCDS2870.1	ENSP00000378217	Q05655
YES	CCDS2870.1	ENSP00000378217	Q05655
YES	CCDS37.1	ENSP00000367830	Q05513
YES	CCDS9579.1	ENSP00000319169	O14744
YES	CCDS45933.1	ENSP00000407653	Q8IZ63
YES	CCDS56232.1	ENSP00000384848	P85299
YES		ENSP00000262731	
YES	CCDS32436.1	ENSP00000268281	Q5K4E3

VEP annotated somatic variants

YES	CCDS47982.1	ENSP00000365908	Q8WUY3
YES	CCDS12616.1	ENSP00000385706	P11465
YES		ENSP00000421986	
YES	CCDS12618.1	ENSP00000270077	Q00887
YES	CCDS11669.1	ENSP00000348442	O00232
YES	CCDS13660.1	ENSP00000329915	O95456
YES	CCDS11862.1	ENSP00000325919	Q969U7
YES	CCDS6779.1	ENSP00000385763	Q14914
YES	CCDS7657.1	ENSP00000254667	P23469
YES	CCDS489.2	ENSP00000353030	P10586
YES	CCDS2895.1	ENSP00000418112	P23470
YES	CCDS47473.1	ENSP00000357196	Q15262
YES	CCDS5947.1	ENSP00000374069	Q92932
YES	CCDS32362.1	ENSP00000293922	Q96A99
YES	CCDS44099.1	ENSP00000391723	Q14671
YES	CCDS44099.1	ENSP00000391723	Q14671
YES	CCDS44099.1	ENSP00000391723	Q14671
YES	CCDS44099.1	ENSP00000391723	Q14671
YES	CCDS10155.1	ENSP00000302327	Q9Y3Y4
YES	CCDS31755.1	ENSP00000240651	Q8WU10
YES	CCDS11267.1	ENSP00000312837	Q86YS3
YES	CCDS2520.1	ENSP00000264601	Q9H0T7
YES	CCDS8281.1	ENSP00000243662	P57729
YES	CCDS35322.2	ENSP00000276066	Q5JT25
YES	CCDS45592.1	ENSP00000262477	Q15276
YES	CCDS45088.1	ENSP00000382341	Q92696
YES	CCDS11798.1	ENSP00000304283	P60763
YES	CCDS9789.1	ENSP00000419471	O15315
YES	CCDS43544.1	ENSP00000382492	Q96JH8
YES	CCDS2612.1	ENSP00000251849	P04049
YES	CCDS54839.1	ENSP00000427123	Q9P0K7
YES	CCDS53277.1	ENSP00000290101	P47736
YES	CCDS41775.1	ENSP00000395708	O95398
YES	CCDS7936.1	ENSP00000298854	Q13702
YES	CCDS2820.1	ENSP00000349547	Q9NS23
YES	CCDS14274.1	ENSP00000366829	P98175
YES	CCDS9462.1	ENSP00000267229	Q5T8P6
YES	CCDS43378.1	ENSP00000265271	Q9P2N5
YES	CCDS34876.1	ENSP00000340176	Q93062
YES	CCDS6597.1	ENSP00000367202	O95980
YES	CCDS46110.1	ENSP00000221452	Q01201
YES	CCDS5193.2	ENSP00000258062	Q96D71
YES	CCDS2953.1	ENSP00000295755	Q9BQ08
YES	CCDS13857.2	ENSP00000346342	O75677
YES	CCDS2869.1	ENSP00000296292	Q96AA3
YES	CCDS2869.1	ENSP00000296292	Q96AA3
YES	CCDS33712.1	ENSP00000334153	Q14699
YES	CCDS54221.1	ENSP00000377075	Q3MIN7
YES	CCDS31071.1	ENSP00000355523	P49802
YES		ENSP00000444196	
YES	CCDS13675.1	ENSP00000332454	P57078
YES	CCDS1991.1	ENSP00000283632	Q9H871
YES	CCDS1991.1	ENSP00000283632	Q9H871
YES	CCDS12282.1	ENSP00000221486	O75792
YES	CCDS1347.1	ENSP00000356530	Q05823

VEP annotated somatic variants

YES	CCDS11452.1	ENSP00000466680	P52198
YES	CCDS47149.1	ENSP00000340979	Q8N4F7
YES	CCDS372.2	ENSP00000362555	Q6ZMZ0
YES	CCDS45608.1	ENSP00000382330	A6NCQ9
YES	CCDS54611.1	ENSP00000420321	Q9Y6N7
YES	CCDS54611.1	ENSP00000420321	Q9Y6N7
YES	CCDS42654.1	ENSP00000317985	O75116
YES	CCDS626.1	ENSP00000360120	Q01973
YES	CCDS5116.1	ENSP00000357494	P08922
YES		ENSP00000401535	
YES			
YES		ENSP00000473658	
YES			
YES	CCDS8753.1	ENSP00000005386	Q9H6T3
YES	CCDS10994.1	ENSP00000328977	Q9UNE2
YES	CCDS12367.1	ENSP00000222247	Q02543
YES	CCDS11241.1	ENSP00000389103	P62750
YES	CCDS11241.1	ENSP00000389103	P62750
YES	CCDS13988.1	ENSP00000346001	P39023
YES	CCDS14418.1	ENSP00000362744	P62701
YES	CCDS34570.1	ENSP00000427015	Q15349
YES	CCDS11773.1	ENSP00000307272	Q8N122
YES	CCDS11773.1	ENSP00000307272	Q8N122
YES	CCDS33577.1	ENSP00000339145	Q14684
YES	CCDS33577.1	ENSP00000339145	Q14684
YES	CCDS11569.1	ENSP00000258955	Q9HA92
YES	CCDS7112.1	ENSP00000367154	Q15404
YES	CCDS58141.1	ENSP00000367050	O95197
YES	CCDS4445.2	ENSP00000325594	Q96T51
YES	CCDS4445.2	ENSP00000325594	Q96T51
YES	CCDS41534.1	ENSP00000373420	Q8WXA3
YES	CCDS35172.1	ENSP00000419692	P19793
YES	CCDS33011.1	ENSP00000352608	P21817
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YES	CCDS55691.1	ENSP00000355533	Q92736
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YES	CCDS45210.1	ENSP00000373884	Q15413
YES	CCDS9295.2	ENSP00000371973	
YES	CCDS6978.1	ENSP00000360938	Q9UL12
YES	CCDS5537.1	ENSP00000246868	Q9Y3A5
YES	CCDS14091.2	ENSP00000370196	O95248
YES	CCDS31427.1	ENSP00000256190	Q86WG5
YES	CCDS33074.1	ENSP00000353769	Q9H7N4
YES	CCDS1105.1	ENSP00000307275	O14828
YES	CCDS13779.1	ENSP00000266214	Q96GP6
YES	CCDS9459.1	ENSP00000302579	O95171
YES	CCDS47545.1	ENSP00000297029	Q9Y6U3
YES	CCDS3740.1	ENSP00000281142	Q96NL6
YES	CCDS3740.1	ENSP00000281142	Q96NL6
YES	CCDS5060.2	ENSP00000358016	Q8N228
YES	CCDS33312.1	ENSP00000283254	Q9NY46
YES	CCDS46441.1	ENSP00000386306	Q15858

VEP annotated somatic variants

YES	CCDS46441.1	ENSP00000386306	Q15858
YES	CCDS41473.1	ENSP00000272091	Q6IQ49
YES	CCDS34590.1	ENSP00000385899	Q7Z5N4
YES	CCDS2599.1	ENSP00000312122	P55735
YES	CCDS54518.1	ENSP00000385695	B5MCN3
YES	CCDS44281.1	ENSP00000308339	Q96JE7
YES	CCDS13137.1	ENSP00000338844	Q15437
YES	CCDS3710.1	ENSP00000280551	O94855
YES	CCDS7495.1	ENSP00000359370	Q9NQW1
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YES	CCDS7495.1	ENSP00000359370	Q9NQW1
YES	CCDS7495.1	ENSP00000359370	Q9NQW1
YES	CCDS6683.1	ENSP00000364965	Q96T21
YES	CCDS11808.1	ENSP00000269389	Q8WVN6
YES	CCDS1283.1	ENSP00000331736	P16581
YES	CCDS1282.1	ENSP00000263686	P16109
YES	CCDS5599.1	ENSP00000265362	Q14563
YES	CCDS5599.1	ENSP00000265362	Q14563
YES	CCDS2811.1	ENSP00000002829	Q13275
YES	CCDS14026.2	ENSP00000379704	Q9UH03
YES	CCDS32150.1	ENSP00000450540	P01011
YES	CCDS12557.1	ENSP00000350633	Q9UHV2
YES	CCDS53838.1	ENSP00000267197	Q9UPS6
YES	CCDS53838.1	ENSP00000267197	Q9UPS6
YES	CCDS46741.1	ENSP00000385852	Q9C0A6
YES	CCDS13833.1	ENSP00000248933	Q9BYH1
YES	CCDS10894.1	ENSP00000305790	Q15393
YES	CCDS5204.1	ENSP00000356541	Q9BWJ5
YES	CCDS31216.1	ENSP00000362298	O95470
YES	CCDS32526.1	ENSP00000268989	O43147
YES	CCDS32526.1	ENSP00000268989	O43147
YES	CCDS14002.1	ENSP00000248929	Q96HU1
YES	CCDS55612.1	ENSP00000418744	Q9Y371
YES	CCDS31278.1	ENSP00000348215	Q5TCZ1
YES	CCDS12799.1	ENSP00000293441	Q9Y566
YES	CCDS12799.1	ENSP00000293441	Q9Y566
YES	CCDS5942.1	ENSP00000297261	Q15465
YES	CCDS14135.1	ENSP00000370299	Q13796
YES	CCDS12833.1	ENSP00000291707	Q96PQ1
YES	CCDS33575.1	ENSP00000270162	P57059
YES	CCDS13646.1	ENSP00000290399	Q14190
YES	CCDS41474.1	ENSP00000355589	Q9P2F8
YES	CCDS1209.1	ENSP00000357022	Q9NQ25
YES	CCDS3482.1	ENSP00000273861	Q96EP9
YES	CCDS3614.1	ENSP00000273905	Q3KNW5
YES	CCDS34129.1	ENSP00000264930	Q9Y666
YES	CCDS5786.1	ENSP00000194130	Q9BZW2
YES	CCDS14426.2	ENSP00000465734	P36021
YES	CCDS12321.1	ENSP00000221742	P48664
YES	CCDS12321.1	ENSP00000221742	P48664
YES	CCDS4154.1	ENSP00000245407	O76082
YES	CCDS4213.1	ENSP00000302851	Q9UHI7
YES	CCDS9903.2	ENSP00000431840	Q8NFF2
YES	CCDS55130.1	ENSP00000400101	Q9UJS0
YES	CCDS45700.1	ENSP00000366299	Q9BZJ4



VEP annotated somatic variants

YES	CCDS45700.1	ENSP00000366299	Q9BZJ4
YES	CCDS11771.2	ENSP00000355384	Q86WA9
YES	CCDS10334.1	ENSP00000378074	O00337
YES	CCDS10121.1	ENSP00000315006	O43868
YES	CCDS6870.1	ENSP00000362469	Q9NY64
YES	CCDS34756.1	ENSP00000367770	Q969S0
YES	CCDS34524.1	ENSP00000353557	Q5T1Q4
YES	CCDS1600.1	ENSP00000355577	Q8IY50
YES	CCDS31714.1	ENSP00000311833	Q8TED4
YES			
YES	CCDS10800.1	ENSP00000454646	Q9NVC3
YES	CCDS34948.1	ENSP00000024061	Q5BKX6
YES	CCDS5917.1	ENSP00000419412	P04920
YES	CCDS12368.1	ENSP00000222248	Q92911
YES	CCDS14570.1	ENSP00000360967	Q9UN76
YES	CCDS42590.1	ENSP00000338627	Q9GZN6
YES	CCDS11256.1	ENSP00000385822	P31645
YES	CCDS41317.1	ENSP00000353791	P48067
YES	CCDS9590.1	ENSP00000320378	Q9UHI5
YES	CCDS9590.1	ENSP00000320378	Q9UHI5
YES	CCDS14269.1	ENSP00000330320	Q96T83
YES	CCDS3084.1	ENSP00000311291	Q92959
YES	CCDS14612.1	ENSP00000360163	P28370
YES	CCDS3761.1	ENSP00000283131	O60264
YES	CCDS43027.1	ENSP00000350036	Q8NDV3
YES	CCDS32110.1	ENSP00000355110	Q9H4F8
YES	CCDS13887.1	ENSP00000351593	P53814
YES	CCDS53486.1	ENSP00000373637	Q9H7B4
YES	CCDS31255.1	ENSP00000360293	Q9BX66
YES	CCDS47008.1	ENSP00000422185	Q96PQ0
YES	CCDS899.1	ENSP00000337804	Q6Q759
YES	CCDS899.1	ENSP00000337804	Q6Q759
YES	CCDS35419.1	ENSP00000359529	Q5MJ10
YES	CCDS6413.2	ENSP00000366690	Q76KD6
YES	CCDS42824.1	ENSP00000311684	Q15772
YES	CCDS42824.1	ENSP00000311684	Q15772
YES	CCDS12510.1	ENSP00000301244	O43291
YES	CCDS7313.1	ENSP00000362201	Q92563
YES	CCDS61599.1	ENSP00000317790	Q9NRC6
YES	CCDS61599.1	ENSP00000317790	Q9NRC6
YES	CCDS10689.2	ENSP00000262518	Q6ZRS2
YES			
YES			
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YES	CCDS58815.1	ENSP00000439378	Q9Y2M2
YES	CCDS10890.1	ENSP00000377257	Q16842
YES	CCDS11747.1	ENSP00000225276	Q9UJ37
YES	CCDS11747.1	ENSP00000225276	Q9UJ37
YES	CCDS6883.1	ENSP00000336733	Q9H4F1
YES	CCDS31888.1	ENSP00000373539	Q8WWQ8
YES	CCDS1929.1	ENSP00000377633	O95630
YES	CCDS3515.1	ENSP00000265404	Q9ULZ2
YES	CCDS53935.1	ENSP00000290607	Q9P2P6
YES	CCDS2310.1	ENSP00000376134	Q14765
YES	CCDS11423.1	ENSP00000293328	P51692

VEP annotated somatic variants

YES	CCDS55247.1	ENSP00000428756	
YES	CCDS10254.1	ENSP00000319323	Q9UBI4
YES	CCDS59303.1	ENSP00000376168	A8MT69
YES	CCDS5839.1	ENSP00000275764	Q7Z7C7
YES	CCDS6851.1	ENSP00000415968	Q96SI9
YES	CCDS30798.1	ENSP00000358810	Q5VSL9
YES	CCDS34752.1	ENSP00000249344	Q9ULQ0
YES	CCDS47499.1	ENSP00000321826	Q5T5C0
YES	CCDS8629.1	ENSP00000075503	Q6J9G0
YES	CCDS5580.1	ENSP00000248600	Q9Y6J8
YES	CCDS3162.1	ENSP00000355156	Q9BXA5
YES	CCDS33587.1	ENSP00000330343	P55854
YES	CCDS34549.1	ENSP00000318635	Q6EEV6
YES	CCDS12536.1	ENSP00000470252	O00267
YES	CCDS12536.1	ENSP00000470252	O00267
YES	CCDS6701.1	ENSP00000364621	Q96L08
YES	CCDS31426.1	ENSP00000315630	Q9UH65
YES	CCDS12676.2	ENSP00000245934	Q92797
YES			
YES	CCDS9761.2	ENSP00000350719	Q8WXH0
YES	CCDS9761.2	ENSP00000350719	Q8WXH0
YES	CCDS5254.1	ENSP00000347792	O15056
YES		ENSP00000336775	O15061
YES	CCDS34054.1	ENSP00000306015	Q9UMS6
YES	CCDS5214.1	ENSP00000356426	Q9NYJ8
YES	CCDS5214.1	ENSP00000356426	Q9NYJ8
YES	CCDS3352.1	ENSP00000326550	Q9Y6A5
YES	CCDS35347.1	ENSP00000361998	Q5H9L4
YES	CCDS5261.1	ENSP00000356033	Q8N103
YES	CCDS5261.1	ENSP00000356033	Q8N103
YES	CCDS10394.1	ENSP00000338093	A2RTX5
YES	CCDS10394.1	ENSP00000338093	A2RTX5
YES	CCDS33698.1	ENSP00000287652	Q93075
YES	CCDS33698.1	ENSP00000287652	Q93075
YES	CCDS14078.1	ENSP00000336724	Q8WUA7
YES	CCDS41901.1	ENSP00000366863	O60343
YES	CCDS46770.1	ENSP00000402935	Q92609
YES	CCDS54788.1	ENSP00000273980	Q8TEA7
YES	CCDS31621.1	ENSP00000335191	O75333
YES	CCDS14496.1	ENSP00000361866	Q9H3H9
YES	CCDS239.2	ENSP00000395574	Q14241
YES	CCDS4282.1	ENSP00000296702	O14776
YES	CCDS13881.1	ENSP00000215838	P20062
YES	CCDS9987.2	ENSP00000387303	Q8NDG6
YES	CCDS55488.1	ENSP00000403954	Q9UKZ4
YES		ENSP00000429430	Q9NT68
YES		ENSP00000474453	Q15554
YES	CCDS46339.1	ENSP00000386869	O43151
YES	CCDS56042.1	ENSP00000240361	Q8IWB6
YES	CCDS11658.1	ENSP00000258991	Q8IWB9
YES	CCDS9339.1	ENSP00000369840	Q8N6G2
YES	CCDS5248.1	ENSP00000356134	Q8WVM0
YES	CCDS14636.2	ENSP00000385461	Q5H9I0
YES	CCDS12878.1	ENSP00000375639	P0C1Z6
YES	CCDS30770.1	ENSP00000212355	Q03167

VEP annotated somatic variants

YES	CCDS14459.1	ENSP00000453704	Q8IUE1
YES	CCDS32213.1	ENSP00000389466	Q96PF1
YES	CCDS34574.1	ENSP00000355751	P35442
YES	CCDS12025.1	ENSP00000340088	Q9P2T0
YES	CCDS47543.1	ENSP00000406482	Q9UPZ6
YES	CCDS32053.1	ENSP00000288014	Q9BU02
YES	CCDS1805.2	ENSP00000423933	Q9BTF0
YES	CCDS13609.1	ENSP00000286827	Q13009
YES	CCDS34558.1	ENSP00000437188	Q8IVF5
YES	CCDS12136.1	ENSP00000248244	Q8IUC6
YES	CCDS12003.1	ENSP00000169551	Q9BVV7
YES	CCDS58834.1	ENSP00000391481	P29401
YES	CCDS58834.1	ENSP00000391481	P29401
YES	CCDS11242.1	ENSP00000292090	Q96CP7
YES	CCDS45293.1	ENSP00000452871	Q04726
YES	CCDS45293.1	ENSP00000452871	Q04726
YES	CCDS11633.1	ENSP00000275780	Q86UE8
YES	CCDS3811.1	ENSP00000061240	O43897
YES	CCDS7449.1	ENSP00000350630	Q9Y6L7
YES	CCDS7449.1	ENSP00000350630	Q9Y6L7
YES	CCDS7449.1	ENSP00000350630	Q9Y6L7
YES	CCDS32261.1	ENSP00000453508	Q9Y4G6
YES	CCDS1947.1	ENSP00000233638	O43763
YES	CCDS10878.1	ENSP00000288025	Q8WW62
YES	CCDS46368.1	ENSP00000186436	Q92545
YES	CCDS5837.1	ENSP00000275767	Q9NV12
YES	CCDS47087.1	ENSP00000420919	B9EJG8
YES	CCDS14689.1	ENSP00000359449	Q8NFB2
YES	CCDS53640.1	ENSP00000440638	Q9P0N5
YES	CCDS32567.1	ENSP00000339830	Q6QAJ8
YES	CCDS3519.1	ENSP00000334611	Q6ZMR5
YES	CCDS5187.1	ENSP00000237289	P21580
YES	CCDS6810.1	ENSP00000223795	P32971
YES	CCDS47534.1	ENSP00000395538	O15417
YES	CCDS11368.1	ENSP00000254051	Q8IZW8
YES	CCDS11368.1	ENSP00000254051	Q8IZW8
YES	CCDS45250.1	ENSP00000371475	Q12888
YES	CCDS45250.1	ENSP00000371475	Q12888
YES	CCDS45250.1	ENSP00000371475	Q12888
YES	CCDS32817.1	ENSP00000335144	Q68CL5
YES	CCDS46007.1	ENSP00000439135	P67936
YES	CCDS3856.1	ENSP00000353785	O94811
YES	CCDS3856.1	ENSP00000353785	O94811
YES	CCDS3292.1	ENSP00000341031	Q6ZUI0
YES	CCDS12655.1	ENSP00000006275	O75865
YES	CCDS41947.1	ENSP00000330289	Q86SZ2
YES	CCDS41947.1	ENSP00000330289	Q86SZ2
YES	CCDS4867.1	ENSP00000362013	Q96PN7
YES	CCDS35437.1	ENSP00000333441	Q9BQ50
YES	CCDS4677.1	ENSP00000365884	Q9C019
YES	CCDS4654.1	ENSP00000366404	P14373
YES	CCDS1097.1	ENSP00000334657	Q7Z4K8
YES	CCDS376.1	ENSP00000291416	Q9BVG3
YES	CCDS44333.1	ENSP00000355613	Q6ZTA4
YES	CCDS9703.1	ENSP00000298355	Q9C026

VEP annotated somatic variants

YES	CCDS9703.1	ENSP00000298355	Q9C026
YES	CCDS3883.1	ENSP00000339299	O75962
YES	CCDS5708.1	ENSP00000200457	Q15654
YES	CCDS12293.1	ENSP00000466967	Q9NXH9
YES	CCDS14477.1	ENSP00000362027	Q96GJ1
YES	CCDS13246.1	ENSP00000252015	Q8TEL6
YES	CCDS58347.1	ENSP00000437849	Q7Z4N2
YES	CCDS31340.1	ENSP00000155858	Q9NZQ8
YES	CCDS42035.1	ENSP00000320239	Q96QT4
YES	CCDS9134.1	ENSP00000406191	Q9HBA0
YES	CCDS6956.1	ENSP00000298552	Q92574
YES	CCDS6956.1	ENSP00000298552	Q92574
YES	CCDS10458.1	ENSP00000219476	P49815
YES	CCDS530.1	ENSP00000361072	O60635
YES	CCDS14470.1	ENSP00000362111	O43657
YES	CCDS14248.1	ENSP00000367743	P41732
YES	CCDS13755.1	ENSP00000382544	Q96PF2
YES	CCDS34455.1	ENSP00000259750	Q5TCY1
YES	CCDS34455.1	ENSP00000259750	Q5TCY1
YES	CCDS7324.3	ENSP00000310829	
YES	CCDS11174.2	ENSP00000261647	Q6DKK2
YES	CCDS46678.1	ENSP00000381003	Q96AY4
YES	CCDS58101.1	ENSP00000357575	Q8IYW2
YES	CCDS58101.1	ENSP00000357575	Q8IYW2
YES	CCDS58101.1	ENSP00000357575	Q8IYW2
YES	CCDS58101.1	ENSP00000357575	Q8IYW2
YES	CCDS58101.1	ENSP00000357575	Q8IYW2
YES	CCDS58101.1	ENSP00000357575	Q8IYW2
YES	CCDS14043.1	ENSP00000266254	O95922
YES	CCDS45724.1	ENSP00000377043	Q8N841
YES	CCDS7786.1	ENSP00000305426	P50607
YES	CCDS10008.1	ENSP00000283645	Q96RT8
YES	CCDS14087.1	ENSP00000248846	Q96RT7
YES	CCDS34561.1	ENSP00000356064	Q9NRJ4
YES	CCDS34561.1	ENSP00000356064	Q9NRJ4
YES	CCDS55818.1	ENSP00000449428	Q12792
YES	CCDS58811.1	ENSP00000379038	P19971
YES	CCDS13687.1	ENSP00000317327	P57075
YES	CCDS31694.1	ENSP00000284273	Q8TF42
YES	CCDS34789.1	ENSP00000309198	Q15386
YES	CCDS189.1	ENSP00000364403	Q5T4S7
YES	CCDS43741.1	ENSP00000382507	Q14CS0
YES	CCDS8229.1	ENSP00000323740	P55916
YES			
YES	CCDS6469.1	ENSP00000276893	Q96PU4
YES	CCDS43071.1	ENSP00000301831	Q96C45
YES	CCDS42935.1	ENSP00000386126	Q5DID0
YES	CCDS42935.1	ENSP00000386126	Q5DID0
YES	CCDS42935.1	ENSP00000386126	Q5DID0
YES	CCDS11292.1	ENSP00000268876	Q8IWX7
YES		ENSP00000373873	Q9H9P5
YES			
YES	CCDS13827.1	ENSP00000324343	Q9UBR1
YES	CCDS14429.1	ENSP00000362481	Q96BW1
YES	CCDS31025.1	ENSP00000305941	O75445
YES	CCDS12353.1	ENSP00000252597	Q8N6Y0

VEP annotated somatic variants

YES	CCDS45537.1	ENSP00000219473	Q14694
YES	CCDS14277.1	ENSP00000218348	P51784
YES	CCDS13752.1	ENSP00000215794	Q9UMW8
YES	CCDS43892.1	ENSP00000313811	Q9Y2K6
YES	CCDS42285.1	ENSP00000261497	Q9UPT9
YES	CCDS42686.1	ENSP00000381577	Q70CQ2
YES	CCDS34186.1	ENSP00000296792	Q8TED0
YES	CCDS9081.1	ENSP00000261637	O75691
YES	CCDS9081.1	ENSP00000261637	O75691
YES	CCDS14783.1	ENSP00000328939	O14607
YES	CCDS7120.1	ENSP00000446007	P08670
YES	CCDS5950.1	ENSP00000262178	P41587
YES	CCDS1859.1	ENSP00000408002	Q86Y07
YES	CCDS9786.1	ENSP00000450731	Q9UEU0
YES	CCDS56490.1	ENSP00000401191	
YES	CCDS56490.1	ENSP00000401191	
YES	CCDS5561.1	ENSP00000297873	Q8N6F8
YES	CCDS44385.1	ENSP00000320563	Q6ZS81
YES	CCDS7619.1	ENSP00000263461	Q9BZH6
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YES	CCDS7619.1	ENSP00000263461	Q9BZH6
YES	CCDS7619.1	ENSP00000263461	Q9BZH6
YES	CCDS7619.1	ENSP00000263461	Q9BZH6
YES	CCDS7619.1	ENSP00000263461	Q9BZH6
YES	CCDS3825.1	ENSP00000280190	Q8IZU2
YES	CCDS31037.2	ENSP00000408108	Q9H7D7
YES	CCDS46251.1	ENSP00000384302	Q15061
YES	CCDS33738.1	ENSP00000307491	Q8TAF3
YES	CCDS47757.1	ENSP00000384290	Q8WVS4
YES	CCDS46063.1	ENSP00000368025	Q6ZQQ6
YES	CCDS34758.1	ENSP00000346466	A4D1P6
YES	CCDS5339.1	ENSP00000288828	Q9Y4P8
YES	CCDS8506.1	ENSP00000313059	Q9H4A3
YES	CCDS847.1	ENSP00000358698	Q93097
YES	CCDS7494.1	ENSP00000340677	Q93098
YES	CCDS4475.1	ENSP00000370150	Q96S55
YES	CCDS9186.1	ENSP00000319474	Q9NYS7
YES	CCDS54945.1	ENSP00000427772	Q8IX03
YES	CCDS10885.1	ENSP00000352069	O00308
YES	CCDS32892.1	ENSP00000351137	Q9HCS7
YES	CCDS315.1	ENSP00000362991	Q9H6D3
YES	CCDS7560.2	ENSP00000421566	Q9NQW7
YES	CCDS14007.1	ENSP00000349658	Q9NQH7
YES	CCDS47430.1	ENSP00000265351	Q9HAV4
YES	CCDS12624.1	ENSP00000262887	P18887
YES	CCDS12624.1	ENSP00000262887	P18887
YES	CCDS11098.1	ENSP00000007699	Q9Y2T7
YES	CCDS55645.1	ENSP00000357323	Q9H869
YES	CCDS55645.1	ENSP00000357323	Q9H869
YES	CCDS5231.1	ENSP00000323183	Q8N680
YES	CCDS47495.1	ENSP00000237275	Q5TFG8
YES		ENSP00000386616	A2A288
YES		ENSP00000386616	A2A288
YES		ENSP00000386616	A2A288
YES	CCDS6402.1	ENSP00000262577	Q8IXZ2
YES	CCDS14013.1	ENSP00000345793	Q9UGR2

VEP annotated somatic variants

YES	CCDS65304.1	ENSP00000473824	P0CG32	
YES	CCDS7460.1	ENSP00000377357	Q969W1	
YES	CCDS7574.1	ENSP00000358413	Q9H6R6	
YES	CCDS45538.1	ENSP00000456782	Q9NXF8	
YES	CCDS5323.1	ENSP00000314619	Q8N6M9	
YES	CCDS55907.1	ENSP00000413418	Q9C0A1	
YES	CCDS47908.1	ENSP00000384179	Q8WW38	
YES	CCDS42025.1	ENSP00000347498	Q96K21	
YES	CCDS5667.1	ENSP00000377725	Q9Y2L8	
YES	CCDS2825.1	ENSP00000231749	O75800	
YES	CCDS2825.1	ENSP00000231749	O75800	
YES	CCDS55529.1	ENSP00000440847	O15231	
YES		ENSP00000359271		
YES	CCDS12950.1	ENSP00000375586	Q9HCX3	
YES	CCDS12981.1	ENSP00000444812	O75467	
YES	CCDS7264.1	ENSP00000387091	Q70YC5	
YES	CCDS54211.1	ENSP00000377504	Q96IQ9	
YES	CCDS12498.1	ENSP00000338770	Q8TAQ5	
YES	CCDS12848.1	ENSP00000470488	O94892	
YES	CCDS12266.2	ENSP00000350576	Q8N8Z8	
YES	CCDS14649.1	ENSP00000339585	Q6P9G9	
YES	CCDS42536.1	ENSP00000376110	Q6ZR52	
YES	CCDS13548.1	ENSP00000393795	Q96KM6	
YES	CCDS32317.1	ENSP00000299927	Q92610	
YES		ENSP00000411409	Q86UK7	
YES	CCDS12847.1	ENSP00000270649	Q8N883	
YES	CCDS42535.1	ENSP00000469958	Q68DY1	
YES	CCDS42539.1	ENSP00000380310	Q8N7Q3	
YES	CCDS44202.1	ENSP00000396857	Q5TEC3	
YES	CCDS32980.1	ENSP00000349401	P17019	
YES		ENSP00000409514		E5R
YES	CCDS14648.1	ENSP00000359802	P51815	
YES	CCDS10685.1	ENSP00000378642	A8K8V0	
YES	CCDS33096.1	ENSP00000350295	Q0VGE8	
YES	CCDS45164.1	ENSP00000399863	A8K0R7	
YES	CCDS31572.1	ENSP00000278853	P60852	
YES	CCDS10329.2	ENSP00000410198	Q7Z7L9	
YES	CCDS32924.1	ENSP00000254323	Q9H7M6	
YES	CCDS11043.1	ENSP00000371051	O43149	

VEP annotated somatic variants

TREMBL	UNIPARC	RefSeq	SIFT
	UPI000015F144	NM_207365.3	
	UPI0000160CAE	NM_153698.1	
A4D0W4	UPI000004A105		
K7ERP5	UPI000013D7F6	NM_080282.3	
	UPI0000001232	NM_001089.2	
	UPI000013DD9D	NM_080284.2	
	UPI000013DD9D	NM_080284.2	
K7EJJ0	UPI00000747B1	NM_080283.3	
Q9BV39	UPI00001FEEFC	NM_004996.3	
	UPI00001AE5CA	NM_001171.5	
	UPI0000DBEF32		
	UPI0000163938	NM_138340.4	
I,I3L2P5,I3L2L3,I3L259,B	UPI00001AED3D	_021962.3,NM_001282149.1	
Q96EZ6	UPI00001BD9D3		
	UPI00001251DD	NM_014384.2	
B4DVB1,B4DJE7	UPI0000EE3287		
B4DQ51	UPI00001251DF	NM_001609.3	
	UPI000006F1E1	NM_022735.3	
	UPI000003FD52	NM_133492.2	
F5GWV7	UPI0000131FE1	NM_001610.2	
D6RE60,D6RDP0,D6R92	UPI0000048EC7	NM_001037172.1	
H0YNX0,F5H4U6	UPI000006E955	_001199377.1,NM_015162.4	
755,F5H5A1,F5H3B2,F5H	UPI00001AF19E	1127214.2,NM_001243279.1,NM_001284316.1	
	UPI0000DD812A	NM_001080454.1	
Q71UM3,Q4VAU9	UPI00001AF0AE	NM_001106.3	
	UPI000035CC78	NM_207197.2	tolerated(0.13)
340,Q53RS1,Q53RF5,B2F	UPI00001254D4	NM_003183.4	
	UPI000013E57B	NM_139155.2	deleterious(0.01)
	UPI00001AE729	NM_014244.4	
	UPI00004565F4	NM_025003.3	
	UPI000014194C	NM_005099.4	
Q5IR90	UPI000050D3F1	NM_197941.2	
H7BYE3	UPI000004FD83	NM_001040272.5	
	UPI00000503E1	NM_001048230.1	
	UPI000004C602	NM_020683.6	
	UPI0000071FAF	NM_001287824.1	
2L1,F5GXF9,D6RIZ5,D6R	UPI000013EC52	NM_001166693.1	
	UPI000049E130	_002025.3,NM_001169123.1	
Q96T14,D3DX07	UPI0000DAC777	NM_031946.5	
	UPI000192952B	NM_178563.3	
Q53YY0,D3DNG8	UPI0000039D66	NM_031850.3	
	UPI00000701FB	NM_001134830.1	
Q549J4,H3BSK6	UPI0000001C48	NM_016633.2	
Q5THU2,Q5T2H0	UPI000006F22E	_016108.2,NM_001286587.1	
E9PIR9	UPI0001F7836C	NM_001039775.3	
E9PIR9	UPI0001F7836C	NM_001039775.3	
F1T0C0,F1T0B6	UPI0000125741	_014336.3,NM_00103305	tolerated(0.08)
	UPI0000030FA6	NM_000383.3	
	UPI0000030FA6	NM_000383.3	
Q8IW64	UPI000002A38D	M_147185.2,NM_005751.4	
Q8IW64	UPI000002A38D	M_147185.2,NM_005751.4	
	UPI00000362E9	NM_020299.4	
	UPI000002C1AC	NM_000477.5	

VEP annotated somatic variants

F8WBH3	UPI000013E0FF	NM_153329.3	
	UPI00001AF8F8	NM_000693.2	
E5FPY7	UPI0000043F84	_000698.3,NM_001256153.1	
	UPI000013D013	NM_020778.4	
	UPI000013D013	NM_020778.4	
Q496M1,E9PNS8,E9PJJ4	UPI000000D82D	NM_001098526.1	
Q496M1,E9PNS8,E9PJJ4	UPI000000D82D	NM_001098526.1	
	UPI000006EC6E	NM_022662.3	
Q9UMG4	UPI0000E4453A	NM_001142446.1	
J3KQB7	UPI00001D7E11	NM_144708.3	
	UPI000000DCCF	NM_178510.1	
417,F5H2H5,F5H1E7,F5H	UPI00001981FB	NM_015114.1	
	UPI0000EE047B	NM_001244752.1	tolerated_low_confidence(0.01)
	UPI000006FC41	_014915.2,NM_001256053.1	
	UPI00004120FF	3,NM_001195098.1,NM_001195099.1	
	UPI000013E1CE	NM_144698.4	
	UPI0000237861	NM_173595.3	
	UPI00004572EF	NM_024669.2	
C9J244,B4DNI5	UPI0000071863	NM_001159.3	
Q8NEQ1	UPI000006F684		
C9J1E7	UPI000013CED0	NM_001127.3	
Q8N9K4	UPI0000167B50	NM_014203.2	
	UPI00001D89D8	_001252127.1,NM_007347.4	
	UPI00001D89D8	_001252127.1,NM_007347.4	deleterious(0)
	UPI00001AF165	NM_019043.3	
	UPI00001D6936	NM_198450.5	
	UPI00000743B9	NM_198998.2	deleterious(0)
	UPI00000743B9	NM_198998.2	
F1DSG4,B4DHF5	UPI0000125D1F	M_001650.4,NM_004028.3	
	UPI0000457329	NM_173800.4	deleterious(0.01)
F5H6T5,F5H1V1,F5H0C7	UPI00000012C8	NM_001659.2	
Q8ND72,Q3KQX3	UPI000013EA63	NM_024605.3	tolerated(0.59)
	UPI0000D60FAD		
	UPI0000041347	NM_144967.3	
Q6PJ34,C9JLA8,C9J5M2	UPI000019275E	NM_001164741.1	
	UPI00001D62A7	NM_198236.2	
B0QZD3	UPI00002039A3	NM_014448.3	
	UPI000045892C	_001162384.1,NM_001162383.1	
C9J609,C9J5K8	UPI00001B3D98	NM_001128615.1	tolerated(0.07)
E7EUY6,C9JDI6,C9JAD7	UPI00002132CC	_145735.2,NM_001113511.1	
	UPI0000509F06	NM_001017363.1	
B0YIW9	UPI000006F7A5	NM_178815.3	
C9J8P8,C9J625,B7Z979	UPI000007471D	NM_015396.4	
F8W8Y7	UPI0002466A58	NM_001256155.1	
F8W8Y7	UPI0002466A58	NM_001256155.1	
F8W8Y7	UPI0002466A58	NM_001256155.1	
F8W8Y7	UPI0002466A58	NM_001256155.1	
Q68DZ5,K7EL17	UPI0001AE6690		
	UPI000003F083	_015683.1,NM_001286826.1	
	UPI000003F083	_015683.1,NM_001286826.1	
	UPI000013C6C4	NM_000487.5	deleterious(0.05)
	UPI00001260C8	NM_001670.2	
	UPI000020F32F		
	UPI0000E5A753	_001142733.2,NM_130387.5	
	UPI00001260E8	NM_016116.2	



VEP annotated somatic variants

	UPI000004A09F	NM_017873.3	
	UPI0000456EFC	NM_182847.2	
	UPI000007263D	NM_001251888.1	
	UPI0000161978	NM_001002036.3	
	UPI0000161978	NM_001002036.3	
B7ZKP3,B2RCB6	UPI00002116D7	NM_014010.4	
K7EQY1	UPI000156D0F3	NM_030632.1	
C9JP59,B7ZM20	UPI0000070EE2	NM_130768.2	
C9JC51,A6NGQ4	UPI000000DC9F	NM_032852.3	
5T4,G3V4Y8,G3V334,G3'	UPI0000073893	NM_015915.4	
	UPI00001FCB27		
Q8N4D4	UPI0000049724		
Q58I22	UPI0000124FC1	NM_000702.3	
Q13818	UPI0000124FC5	NM_144699.3	
	UPI0000252110	NM_014861.2	
Q8TAS0,B4DL14,B4DFE6	UPI0000126574	NM_001001973.1	
	UPI000013E478	NM_000052.5	
K7ERI0,K7EQC4	UPI000013DD54	NM_005603.4	
Q2NLD0,B4DR18	UPI000004D334	NM_006045.1	
Q2NLD0,B4DR18	UPI000004D334	NM_006045.1	
C9IZM8	UPI0000070A6A	NM_130384.2	
H3BSQ5	UPI000016783F	NM_148414.2	
	UPI00002122D8	NM_001013579.2	
	UPI00001D7BE0	NM_001002254.1	
Q6RDY4,D6RCN1,D6RB8	UPI000022AC91	NM_144696.5	tolerated(0.19)
	UPI000012669E	NM_003502.3	
M0R199,M0QX58	UPI000007021E	NM_014256.3	tolerated(0.12)
.2M4,I3L1C8,I3L125,I3L1'	UPI000000D762	_001144888.1,NM_017451.2	
	UPI0000071E58	NM_003933.4	
C9J8H7	UPI0000231CAC	NM_001178007.1	tolerated(0.35)
Q9UMB3,Q59EI3	UPI0000130BC4	_000709.3,NM_001164783.1	
F2Z3H6	UPI000006FE5A	NM_001707.3	
Q9HAM3	UPI00001B4EFB	NM_021946.4	
G8JLA7	UPI0000232791	NM_001139443.1	
	UPI00001AEA67	NM_001714.2	
Q2MD56	UPI000006FDD6	NM_013314.3	
	UPI000013CD7C	NM_005448.2	tolerated(0.3)
	UPI0000126796	NM_001717.3	
	UPI00000377B0	NM_025227.2	
	UPI00002263BF	NM_182641.3	
*,K4K7V3,K4JXS7,K4JUB	UPI0000E0360B	NM_007300.3	
*,K4K7V3,K4JXS7,K4JUB	UPI0000E0360B	NM_007300.3	
*,K4K7V3,K4JXS7,K4JUB	UPI0000E0360B	NM_007300.3	
J77,Q8IU64,K4K7W0,K4.	UPI00001FCBCC	NM_000059.3	
	UPI000020BEBE	NM_023924.4	
	UPI0000163C12	NM_018963.4	
	UPI00017A7DA9		
R4GN83,R4GMX5	UPI0000051E38	NM_001728.3	
R4GN83,R4GMX5	UPI0000051E38	NM_001728.3	
	UPI000003CEFB9	NM_144587.2	
	UPI000003CEFB9	NM_144587.2	deleterious(0.01)
	UPI000014114A	NM_183242.3	
Q6IBC8,F8W0U7	UPI00000246C2	NM_001731.2	
Q8N324	UPI000004C620	NM_152547.4	
	UPI000013D7E3		

VEP annotated somatic variants

B1AVV1	UPI00001F8E63	NM_001164375.2	
	UPI0000161572		
S4R3N7,Q5T025	UPI00001D808F	NM_001004298.2	
E9PI28	UPI0000070A8D		
F8VVN2	UPI000004A078	NM_024738.1	tolerated(0.36)
R4GNI2,E9PJL5	UPI0001F77A4D		
	UPI00001608A3	NM_175874.3	
	UPI00001FD205		
	UPI00001C0FE1	NM_001145536.1	
	UPI0000073E49	_024032.3,NM_001171251.1	
K7EJP2	UPI000059D617		tolerated_low_confidence(0.
	UPI000006DC1A	NM_033520.1	
	UPI000004C659	NM_001011551.2	tolerated(1)
	UPI00004701CD	NM_001130957.1	
	UPI0000470AFA		
	UPI000022AE5B	NM_001004303.4	
	UPI0000237200	NM_001002912.4	
	UPI0000035539	NM_198593.3	
C9JP86,C9JEK0	UPI000049DF42	NM_001085437.1	
G3XAA6	UPI0000EE2496	NM_001145054.1	
Q6LDJ0,M0R1Q1	UPI000013EC9B	NM_000064.2	
D6RGX5	UPI00006C511D	NM_001039717.1	
	UPI000013C838	NM_001735.2	
	UPI000013C838	NM_001735.2	
	UPI00004573AE	NM_001085401.2	
	UPI000020CA08	NM_000587.2	
I3L375,B4DGL6	UPI000000167C	NM_020178.4	
	UPI0000126DF3	NM_001739.1	
	UPI0000126D6C	NM_001199281.1	deleterious(0)
Q9UN69,Q9UHM9	UPI0000141565	M_001174080.1,NM_023035.2,NM_000068.3	
-I4,Q9HBG3,Q9HBG2,Q9	UPI0000127267	_001243812.1,NM_000718.3	
Q86XX0,O95234	UPI0000E593E5	_199460.2,NM_001129827.1	
	UPI0000E5A6AF		
	UPI0000E5A6AF		
	UPI00001AEA80	M_201593.2,NM_201596.2	
	UPI0001C0B380	NM_001170692.1	
Q7Z2Y9,C9JE79,B4E3I0	UPI0000140A64		
B4E2Y9	UPI000004CEC9	NM_004343.3	
	UPI000003CA33	NM_153498.2	
	UPI000013FFDA		
D6W5A4	UPI0000070B33	NM_024766.4	
Q8WZ12,D6W648	UPI0000161861	NM_001080429.2	
	UPI00000383D5	NM_007058.3	
	UPI000006E882	NM_006615.2	
Q96ET4,K7ES72	UPI00001270F7	NM_004058.3	
Q17RA1,B7Z3N7,B0QYC	UPI0000044645		
E5RGG3,E5RFV9	UPI000022A913	NM_001184900.1	
B2CIS9	UPI0000044176	NM_012114.2	
C9JAC8	UPI0000204B81		
	UPI0000EBB7D6	NM_001079843.2	
Q32MQ2	UPI000022A813	NM_021185.4	
	UPI00001270F2	M_001234.4,NM_033337.2	
	UPI000013CFBA	NM_033212.3	
	UPI000013E20A		
	UPI0000073091	NM_173482.2	tolerated(0.11)

VEP annotated somatic variants

	UPI000014C50D	NM_145020.3	
	UPI0001AFF95B	2.2,NM_001163321.2,NM_001163323.2	
A7MD03	UPI000015F998	NM_017667.3	
H6QX63	UPI00001983C7	NM_199287.2	
B4DK97	UPI0000160405	NM_001008723.1	
	UPI00004DF23B	NM_001042784.1	deleterious(0.03)
	UPI00017A803A	NM_001198910.1	
	UPI0001F78148		
	UPI000022A20F		
	UPI000035B25A	NM_005436.4	
B4DQN0	UPI0000E5BE97	NM_001156474.1	
Q6IBD6	UPI00001362DB	NM_006274.2	
L7REX9,E9PH76,B4XH69	UPI0000043585	NM_001123041.2	
N1,Q5XUM8,Q5XUM6,F'	UPI000013DE92		tolerated(0.27)
	UPI000042263C	NM_001008784.2	
	UPI0000367808		
J3QKQ4	UPI0000073EA9	_007261.3,NM_001256841.1	
K7EQC8	UPI0000070847	NM_012099.1	tolerated(0.53)
Q06C42	UPI000015FF6E	NM_172359.2	
Q29VG3,Q29VG2,J3QLC'	UPI00000359A4	NM_006137.6	
	UPI000020C69D	NM_004661.3	
	UPI000047C9E2	NM_017525.2	
C9K087	UPI000042153E	NM_001178010.2	
	UPI000013E304	NM_022842.4	tolerated(0.37)
	UPI0000126DBD		
Q5JQZ9	UPI0000070643	NM_015076.3	
K7ELV5,K7EJ83	UPI0000113587		
D6REC6,D6R9G1	UPI0000127431	NM_001799.3	
	UPI000013DA21	NM_017774.3	
	UPI0000136103	NM_001037343.1	
	UPI0000001293	NM_003818.3	
Q7Z560,G8JLG2	UPI00001AFE92	NM_001264.4	
Q7Z560,G8JLG2	UPI00001AFE92	NM_001264.4	
	UPI0000D617B1		
M0QXR5	UPI000013C7E7	NM_001815.3	
7J3,C9IZA8,B4E3Q4,B4D	UPI000013D2E8	NM_001282228.1	
	UPI0001AE62C8	NM_031413.3	
	UPI0001AE62C8	NM_031413.3	deleterious(0.02)
	UPI000000D9E5	NM_033070.2	
	UPI0000127513	NM_031890.3	
Q5JX02,Q5JX01	UPI000004A007	NM_006733.2	
	UPI000013FCDF		tolerated(0.07)
Q5JWS6,Q5JWS5,G1UI4'	UPI000006FE8F	NM_007186.3	
Q5JWS6,Q5JWS5,G1UI4'	UPI000006FE8F	NM_007186.3	
D6RAY6,D6R9Q4	UPI000006D2FD		
D6RAY6,D6R9Q4	UPI000006D2FD		
C9JZ04,C9J0F4	UPI000013D5A3	NM_024491.2	tolerated(0.69)
K7ENV0,B4DMD2	UPI000006F4B3	NM_138363.1	
B7ZBT0,B7ZBS9,B7ZBS9	UPI000046FF85	NM_016174.4	
J3QLP1,J3QKN7	UPI0000074733	NM_003869.5	
	UPI000013C4D1	NM_000186.3	tolerated(1)
,Q6KEF5,Q6KEE7,Q6KE	UPI000013C4D4	NM_000492.3	
J3KP00	UPI00001619C1		
B5MDZ7	UPI000020566F	6336.1,NM_024568.2,NM_004284.4	
U3KQ08,F5H829,F5H7R9	UPI000006FA02		

VEP annotated somatic variants

U3KQ08,F5H829,F5H7R8	UPI000006FA02		
RL9,E9PR52,E9PPX4,E9	UPI0000126C1A		deleterious(0.03)
I3L535,B7Z5H1,B7Z2M6	UPI0000125257	NM_000747.2	
	UPI000004616D	NM_130468.3	
I3L2E5	UPI0000456914	_000246.3,NM_001286402.1	
	UPI0001D0C47E		
	UPI0000683C41	NM_001206999.1	
RD8,C9J7P8,C9J300,C9L	UPI0000212358		tolerated(1)
D6R998,B3KVA7	UPI000013CE0D	NM_001825.2	
	UPI000013F2D3	NM_001286.3	
	UPI0000127993		
	UPI0000127AB6	NM_001185080.1	
	UPI0000037798	NM_014358.2	
	UPI0000169FC8	NM_001289.4	
Q6FIC5,B4DWC4	UPI0000127AC9	NM_013943.2	
F5H367,F5H270	UPI0000E00D4E		
Q4ZFY2,E7EW06,C9IYE4	UPI000006F0E8	_024692.4,NM_001287527.1	
	UPI0000070D72	NM_014927.3	
F2YHU6,B3KPD2	UPI0000E19A44	NM_020348.2	
H3BT18,H3BPF1,B7Z6X2	UPI00001FF2F6	_016284.4,NM_001265612.1	
B3KNB0	UPI00000715FD	NM_017546.4	
35TLS4,Q9BYY6,F8W18;	UPI00000008AA	01160258.1,NM_001160226.1	
33XAD4,C9JMQ2,C9JGK	UPI000007446C	NM_001206955.1	
118,Q75MQ9,Q75MF8,Q75	UPI00001285FA	NM_014141.5	
118,Q75MQ9,Q75MF8,Q75	UPI00001285FA	NM_014141.5	
Q5JVD3,Q5JVD6,Q5JVD7	UPI0000211718		
C9J9X1	UPI00001A9480	NM_015198.3	
J3KRB5,J3KNI1,B4DDL2	UPI000059D3B0	_015386.2,NM_001195139.1	
U3KQU7,B3KMW0	UPI0000246D05	NM_006348.3	
	UPI000006DB58	NM_000494.3	
	UPI0000062274	NM_173465.3	
E9PNK8	UPI000013E81F	NM_152890.5	
E9PNK8	UPI000013E81F	NM_152890.5	
C9JPW4	UPI00004575C9	_001278563.1,NM_13345	tolerated(0.09)
B4DU54	UPI000049E122	NM_001847.2	
	UPI00002032A3	NM_015719.3	
Q05BT9	UPI000019B179	NM_001848.2	
Q8N4Z1,D9ZGF2	UPI0000456F39	NM_004369.3	
17KZP0,F2WW53,E7EMS	UPI0000000CBF	NM_000754.3	
B3KM21	UPI000006D3AA	NM_198076.4	
	UPI000045718B	NM_000096.3	
H3BPD6,H3BNX1,G8JLI7	UPI000018CEBD	NM_030594.3	
	UPI000020C179	NM_030627.2	
	UPI0000366600	NM_001006658.2	tolerated(1)
	UPI000022D9DE	NM_173689.5	
	UPI000002A720	01202475.1,NM_001202481.1	
R0,Q53TH9,Q4ZG85,B4E	UPI000004C628	NM_016441.2	
R0,Q53TH9,Q4ZG85,B4E	UPI000004C628	NM_016441.2	
J3KQX0,I3L0A1	UPI0001DBC27E	NM_001190986.1	
	UPI00004A39A7	NM_016652.5	
	UPI00001FEB98		
	UPI00006E232D	NM_153605.3	
B4DLE8	UPI00017A74DC		
	UPI000015FDBE	NM_153478.1	
	UPI0000000CB5	NM_177559.2	

VEP annotated somatic variants

	UPI00001AEEB6	NM_001897.4	
	UPI000157860F	NM_001269043.1	
M0QZD8	UPI0002A474E2		
Q5SW23,A6NKP0	UPI000004A0E6	NM_013266.2	
Q5JTQ9	UPI0000070AF1	NM_003798.2	
B3KQA6	UPI00001AE8F4	NM_001081.3	
Q5T2B4	UPI0000EE4467	01198779.1,NM_001198778.1	
	UPI0001BE8116	_014780.4,NM_00116837	deleterious(0)
	UPI00001AEB98	NM_001202543.1	
	UPI00001AEB98	NM_001202543.1	deleterious(0)
B7WP74	UPI00001C1DAE	NM_020943.2	
B7WP74	UPI00001C1DAE	NM_020943.2	
Q6PIV4	UPI000005A81B4	NM_152434.2	tolerated(1)
	UPI00001A92CE	NM_001142797.1	
5Y9,F5H5L0,F5H121,F5H	UPI0000EE44D0	NM_001161454.1	
E9PRM4,E9PMI2,E9PIV9	UPI000013E5AB		
	UPI000013E07A	NM_000766.4	
	UPI000013E07A	NM_000766.4	
.M0,Q7Z448,Q6GRK0,B4	UPI000013E0B7	_001202855.2,NM_017460.5	
	UPI000013D3F9	NM_023944.3	tolerated(0.1)
	UPI000013C4D5	NM_000786.3	
	UPI00001678B3	NM_006133.2	
Q53R85,D3DP78,C9JQM	UPI000013639B	NM_001349.2	
F5GWV2	UPI000006DFC5	NM_016216.3	
	UPI0000203531	NM_138353.2	
	UPI0000203531	NM_138353.2	
	UPI0000203531	NM_138353.2	
J3QQJ6	UPI00001AEDC6	NM_005215.3	
	UPI000013DA24	_001195610.1,NM_016356.4	
	UPI00002372F1	NM_001142552.1	
06RBN2,D6RBJ9,D6RAR9	UPI00004EC28E	NM_001012732.1	
F5GXJ8	UPI000006F88F	M_030653.3,NM_152438.1	
F5GXJ8	UPI000006F88F	M_030653.3,NM_152438.1	
Q5T1V5,B7ZBU4,B7ZBU9	UPI00001AFE4C	NM_001031725.4	
	UPI00004589D2	NM_020946.1	
B3KWN5	UPI00001C1F29	_015213.3,NM_00124325	tolerated(0.58)
	UPI000020C7D4	NM_018369.2	
B7Z8B7,B7Z3C4	UPI0000001613	_001184781.1,NM_005137.2	
C9JA18,B7Z3B3	UPI0000033B9B		
Q5SUY4,Q0QD44	UPI000006EE74	NM_004753.4	
	UPI00000467F4	NM_018180.2	
Q6IPP7	UPI00000742DC	NM_032656.3	
	UPI00001290D9	NM_004941.1	
	UPI00001290D9	NM_004941.1	
	UPI00001290D9	NM_004941.1	
J7,Q6UUU0,E5RJ79,B4C	UPI0000EA87E6	NM_005219.4	
Q96IB4	UPI0000406CA1	NM_173602.2	
PS35,E9PIL0,E9PI27,E9P	UPI000162779D	NM_001143688.1	
C4P0C8	UPI0000458AE1	NM_001012959.1	
C4P0C8	UPI0001A61692	NM_001164539.1	
	UPI0000051057	NM_014420.2	
F8W750,E9PQT9	UPI0000E59399	NM_001142699.1	
Q59FY1	UPI000013C60C	NM_021120.3	
	UPI0000470041	NM_004747.3	
Q5T3U0	UPI0000051E36	NM_206539.1	

VEP annotated somatic variants

R4GMQ0	UPI00002020EB	NM_033317.4	
J3KPX5	UPI00001D80EF		
Q75KM7,O95705,O4335:	UPI000041AC4D		
O15436	UPI00017AA3A8	NM_178504.4	
C9JU64	UPI000192C36D	NM_001373.1	
C9JU64	UPI000192C36D	NM_001373.1	
C9JU64	UPI000192C36D	NM_001373.1	
C9JU64	UPI000192C36D	NM_001373.1	
C9JU64	UPI000192C36D	NM_001373.1	
	UPI0001A5EE11		
	UPI00003677EB		
Q92865	UPI0000141BA2	NM_001372.3	
	UPI00001D6A0B	NM_003462.3	
Q66K39	UPI000006DA43	NM_021233.2	
B4E0Q3	UPI000013D6C9	NM_015221.2	
Q5XG91,B3KXW9	UPI00001A38CC	NM_004946.2	
	UPI000007412C	NM_004947.4	
	UPI000002A839	NM_032482.2	
H3BQS5,H3BP43	UPI000006DF95	NM_004413.3	tolerated(0.23)
K7EJD5,C9JGC1,C9IZH8	UPI00018131F2	NM_001135155.1	
Q96DC6,B3KWP1	UPI000003B000	395.1,NM_001077394.1,NM_015958.2	
F5H4G6,F5H1L7,B4E191	UPI000006EC0C	NM_173812.4	
	UPI000013E16C	NM_198545.3	
	UPI000013D388	NM_001939.2	
	UPI000013D388	NM_001939.2	
	UPI000013D388	NM_001939.2	
	UPI00000726E2	NM_020693.2	
	UPI000013CF4B	NM_001944.2	
	UPI000035DB4E	NM_001134453.1	
	UPI000035DB4E	NM_001134453.1	
G1UI31,B4DKX6	UPI000013C67F	NM_004415.2	
Q86T18	UPI00001C1577	NM_015548.4	
	UPI000006F286	NM_080664.2	
D6RAR7	UPI000006F968	367.1,NM_001271668.1,NM_032122.4	
	UPI00000738F2	NM_173666.2	
JY61,C9JVC8,C9JS11,C9J	UPI00001413A2	NM_020892.2	
F8VX42	UPI0000037B0A	NM_152511.3	
F8VZA4	UPI000013ED2F	NM_001946.2	tolerated(0.1)
Q75MI9,Q75LS9,A4D1I7	UPI0000129A01	NM_004411.4	
	UPI0000481AC7		
Q6IB29,H7C2Q8	UPI0000204E6D	NM_001159936.1	
C9JJ78,C9J719	UPI000000DB82	NM_006579.2	tolerated(0.67)
E9PN99,E9PJG1	UPI0000129B5E	NM_001397.2	tolerated(0.15)
	UPI000013E997	NM_004826.2	
ISJ9,Q96J05,C9JTI2,C9J	UPI00003DFD0A	NM_001258315.1	
B7ZBI6	UPI0000E86804		
Q7L2Y5,H0Y498	UPI0000470A2B	NM_025191.3	
Q6FH53	UPI000012A217	_001955.4,NM_001168319.1	
	UPI0000046D5C	NM_001201397.1	
	UPI000013C754	NM_003566.3	
	UPI0000000136	NM_001958.3	
	UPI000012ED5C	NM_004280.4	
E5RI18,E5RFW6	UPI00001AFEA2	NM_152347.4	
E5RJB7,E5RHB1	UPI0001929531	NM_001144933.1	
	UPI00017A8807	NM_001144958.1	

VEP annotated somatic variants

	UPI0000209A4C	NM_144715.3	
H0YNW8	UPI00001FEA35	NM_024580.5	
K7EIV5,K7EIT3,B3KX19	UPI0000137931	305.1,NM_004247.3,NM_001258354.1	
	UPI0000163BD6	NM_001415.3	
B1AL80	UPI0000072B32	NM_001421.3	
	UPI000004E87D	NM_052906.3	
	UPI000004E87D	NM_052906.3	
	UPI000004E87D	NM_052906.3	
Q9UMK5	UPI0000D4A0DC	3,NM_001081755.2,NM_001278915.1	
	UPI0000051C66	NM_017770.3	
	UPI0000070A23	427.1,NM_001271428.1,N	tolerated(0.32)
	UPI000013927E	NM_014673.3	
	UPI000013927E	NM_014673.3	
G3V4U5,F8W717	UPI00004A074E	NM_001008707.1	tolerated(0.82)
G3V4U5,F8W717	UPI00004A074E	NM_001008707.1	
G3V4U5,F8W717	UPI00004A074E	NM_001008707.1	
	UPI000013E21D	NM_001426.3	
Q71V36,F5GX88	UPI0000129E00	3,NM_001114753.2,NM_001278138.1	
	UPI0000071D6F	_017993.3,NM_001242863.1	
	UPI0000EE3B3A	NM_001164178.1	
G3V450	UPI0000052B69	NM_001249.2	
	UPI00004566BC	NM_015409.4	
	UPI00006635A8	_004445.4,NM_001280794.1	
R4SBI6,B1AQP9,B1AQP8	UPI000012CFF2	NM_000120.3	tolerated(1)
E5RI53	UPI0000073FE5	NM_001979.5	
	UPI0000201263	NM_001433.3	
H3BRX7	UPI00003668C3	NM_012291.4	
	UPI0000251E45	NM_031913.3	tolerated(0.4)
H0YL83	UPI0000001BC8	NM_000126.3	deleterious(0)
	UPI00001A8223	NM_001014763.1	terious_low_confidence(C
B2RCZ7	UPI0000073C7C	NM_014297.3	
	UPI0000470AFE	NM_005665.4	
	UPI00019145BF	NM_001159944.1	
	UPI00019145BF	NM_001159944.1	
K7EQ87	UPI000013E730	NM_001988.2	
K7EQ87	UPI000013E730	NM_001988.2	
C9JLF4	UPI0000577ED7	NM_001193361.1	
Q5T399	UPI000013DDA8	NM_130398.3	tolerated(0.68)
	UPI000013574F	NM_001024924.1	
B7Z9R6	UPI0000167BA1	NM_001111077.1	
Q2VF45,Q003V9,Q003V!	UPI000012A416	NM_000132.3	tolerated(1)
Q2VF45,Q003V9,Q003V!	UPI000012A416	NM_000132.3	
Q19UK5,Q19UK4,Q19UK	UPI000002BA13	NM_000133.3	deleterious(0.05)
B2C6G4	UPI000004CC6F	NM_174912.3	
Q22,E5RGZ5,E5RGD8,B3I	UPI000003405E	NM_004265.3	
E9PQC2,E9PPZ4	UPI000003405F	NM_021727.3	
Q53XA7,H0YLC7	UPI000012A422		
B4DY02,B0QY28	UPI000022B897	NM_001104595.1	tolerated(0.18)
	UPI0000227E33	NM_001170779.1	
	UPI0000227E33	NM_001170779.1	
	UPI00001613F2	NM_001078173.1	
	UPI00001613F2	NM_001078173.1	
J3QSR3	UPI000057A0DB	NM_015912.3	
	UPI00000373BF	NM_001085480.2	
	UPI00000EB9DB	NM_015159.1	

VEP annotated somatic variants

	UPI000015FCC7	NM_175885.3	
	UPI000020BD7C	NM_015688.1	
	UPI00001D7978	NM_001145475.1	
	UPI0000049306	NM_152481.1	
	UPI00000710DE	NM_006589.2	
	UPI0000551BE9		
	UPI0001AE7915	NM_001163258.1	
H3BP45	UPI0000EE554D	NM_014722.2	
	UPI000045731A	NM_152548.2	tolerated(0.57)
H3BT53	UPI0000520A1A	NM_000135.2	
	UPI000000DB76	NM_021922.2	
	UPI000000DB76	NM_021922.2	
	UPI000000DB76	NM_021922.2	
F8VV73,F8VPF2	UPI0000041260	NM_001271783.1	
C9JWM9,C9JVQ5	UPI0000073D5B	NM_014808.2	
C9JWM9,C9JVQ5	UPI0000073D5B	NM_014808.2	
	UPI000013EB82	NM_004104.4	
	UPI000013EB82	NM_004104.4	
	UPI000013EB82	NM_004104.4	
	UPI000013EB82	NM_004104.4	
Q9Y3V7,C9JQS6	UPI000042B0C1	NM_001004019.1	deleterious(0.03)
	UPI000013D88F		tolerated(0.16)
	UPI00018830C3	NM_001142641.1	
Q08AL4,F5GXN9	UPI00001C1EC6	NM_012166.2	
Q08AL4,F5GXN9	UPI00001C1EC6	NM_012166.2	
	UPI000012ADC1	NM_024907.6	
C9JK86	UPI00004123F1	NM_207102.2	
	UPI000012A581	NM_022039.3	
	UPI0000EE5E27	NM_001170631.1	
0,M0QZE1,M0QYT8,M0C	UPI000059D6B0	NM_001161357.1	
:7EWF4,D6RJD4,D6RG0	UPI000012A72D	M_213647.1,NM_002011	tolerated(0.2)
C9JU00,C9JPQ9	UPI000012A78D	NM_021870.2	
	UPI0000251DB7	NM_025135.2	
	UPI0000251DB7	NM_025135.2	
	UPI0000251DB7	NM_025135.2	
	UPI000022BD13	NM_018086.2	
	UPI0000035FBF	NM_030917.3	
	UPI000000165F	NM_003602.4	
	UPI000002A9BC	_001135212.1,NM_181342.2	
:61,Q86TQ3,Q6NXF2,Q6	UPI000013C596	NM_001110556.1	deleterious(0.01)
	UPI0001765F91	NM_001164317.1	
D6RFF2	UPI00001488E7	NM_182925.4	
Q96L17,B4DN09	UPI00015FA087	NM_020066.4	
Q96L17,B4DN09	UPI00015FA087	NM_020066.4	
	UPI000016A103	NM_001002294.2	
	UPI0000DBEF37	NM_015308.2	
	UPI0000DBEF37	NM_015308.2	
	UPI0000579B80	NM_032532.2	
	UPI0000579B80	NM_032532.2	
	UPI000012ADD6	NM_001452.1	
Q8N4A5,Q69YN9	UPI000007462D	01012426.1,NM_001012427.1	
	UPI000012AB4D	NM_004957.4	
Q69YV4,Q4W596	UPI000021D4C2	NM_025074.6	
Q69YV4,Q4W596	UPI000021D4C2	NM_025074.6	



VEP annotated somatic variants

Q69YV4,Q4W596	UPI000021D4C2	NM_025074.6	
Q69YV4,Q4W596	UPI000021D4C2	NM_025074.6	
Q69YV4,Q4W596	UPI000021D4C2	NM_025074.6	
	UPI0000D615C2	NM_001168235.1	
F8WAN4	UPI0000366665	NM_018027.3	
	UPI000006F96D	NM_152597.4	
4W5Q0,Q4W5K3,Q4W5F	UPI000020B66B	_001128427.2,NM_020116.4	
	UPI00001C1EAA	NM_003934.1	
I68,Q5U805,E3UTT6,A7X	UPI00000338F8	NM_000148.3	
,E9PP56,E9PJB4,E9PJ18	UPI000012ADAC	NM_000150.2	
	UPI00001262A8	NM_001680.4	
C9J2W6	UPI000013E307	NM_024513.3	
	UPI000022BF90	NM_207359.2	
359HA5,D6RF16,D6RC24	UPI000012B04A	NM_005255.2	
359HA5,D6RF16,D6RC24	UPI000012B04A	NM_005255.2	
	UPI00001FD982	_000153.3,NM_001201401.1	
	UPI00001FD982	_000153.3,NM_001201401.1	
Q71UH7,C8CHJ6	UPI000012B056		
Q4G0E1,D3DQI7	UPI0000041292	NM_198321.3	
	UPI0000073A6F	NM_001253826.1	tolerated(0.52)
Q68VJ3	UPI0000070DEC	NM_017417.1	tolerated_low_confidence(0.07)
Q68VJ3	UPI0000070DEC	NM_017417.1	tolerated(0.07)
	UPI00005A72DA		
	UPI00005A72DA		tolerated(0.15)
	UPI00005A72DA		
B4DH81	UPI0000EE56F2	NM_032293.4	
E7ETN8	UPI000004B6D7	_001134486.2,NM_052942.3	
E7ETN8	UPI000004B6D7	_001134486.2,NM_052942.3	
E7ETN8	UPI000004B6D7	_001134486.2,NM_052942.3	
I3L1L8	UPI000004EDF9	NM_000160.3	
Q8N7N7,Q08M29	UPI000006E705		
35SZC3,B4DIP8,B3KUM8	UPI000015828B		
H0UIB3,B7Z4H3	UPI0000038D5C	_024034.4,NM_001256737.1	
	UPI000012B394	NM_016204.1	
	UPI000012B3B7	NM_003616.2	
E5KND5,C9JA25	UPI000006232D	NM_024996.5	
	UPI0000000DD6	NM_000821.5	
K7ENT5,K7EJI6	UPI0000073CAB	NM_152657.3	tolerated_low_confidence(0.18)
K7ENT5,K7EJI6	UPI0000073CAB	NM_152657.3	tolerated_low_confidence(0.18)
K7EQ41,K7EL54	UPI000006E533		
	UPI0000049E0C	NM_138785.3	
	UPI00001393F9	NM_021067.3	tolerated(0.82)
Q6ZMF1,H3BQT1	UPI00001FFBD9	NM_012201.5	
Q6ZMF1,H3BQT1	UPI00001FFBD9	NM_012201.5	
B3KTH4	UPI000013D29C		
	UPI0000169DF9	NM_006708.2	
	UPI000188140C	NM_001024452.2	tolerated(0.4)
	UPI000188140C	NM_001024452.2	
F8VZP2	UPI000004B633	NM_031302.3	
	UPI000003FFB7	NM_145016.3	
Q53SE7	UPI00000704BE	NM_178439.3	
	UPI0000001249	NM_002073.2	
	UPI00000474FA	NM_053004.2	tolerated(0.54)
	UPI000004EEC8	NM_000406.2	
	UPI0000190979	NM_005895.3	

VEP annotated somatic variants

E7ES66,E5FY30,E0D854	UPI0001CB792B	NM_000173.5	
	UPI0000032F5B	NM_005708.3	
	UPI000013C91C	NM_001503.3	
C9JZE8,C9J8H8,B7Z613	UPI00000721CA	NM_001001995.1	
Q53RZ9,B4DQM4	UPI00017A77BC		
	UPI000003BCCD	NM_054021.1	tolerated(0.06)
	UPI0000366736		tolerated_low_confidence('
	UPI00003D41AD	NM_001083909.1	
	UPI00003D41AD	NM_001083909.1	
	UPI00003D41AD	NM_001083909.1	
H9NIL9	UPI0000041346	NM_007223.2	
	UPI000005C3025	NM_020716.1	
C9J7B8,A8KA99	UPI00001AF15F	NM_017577.4	
	UPI0000161A59		
	UPI0000161A59		
	UPI0000161A59		
	UPI0000163937	NM_014668.3	
	UPI0001E8F433	NM_001258021.1	
EK8,D6RDX5,D6RBV7,D6	UPI000002AA8D	NM_000826.3	
Q9UHA9	UPI000013D503	NM_000828.4	
C9JU97	UPI000004A7E3	NM_000844.3	
C9JLW9	UPI0000185F04	NM_014615.3	
Q5T0I0	UPI000012B3B4	_000177.4,NM_00125802	deleterious(0.04)
	UPI0000073899	NM_018094.4	
C7DJS1,B2C310	UPI000011028B	NM_000852.3	
G3V5U6,G3V5G8	UPI000013C6F0	NM_145870.2	
3R7,D2CFK9,B7Z7A3,B4I	UPI000000D960	NM_012341.2	
3R7,D2CFK9,B7Z7A3,B4I	UPI000000D960	NM_012341.2	
	UPI000013C740	NM_001522.2	
C9J3Q6	UPI00001D7E8F	NM_001080393.1	
32PH61,Q2PH60,Q2PH5I	UPI000012CE8E	NM_002108.3	
B6EU04	UPI00000389A3	NM_021175.2	
IS90,C9JN14,C9JH46,C9J	UPI00001D9A86	NM_015401.3	
IS90,C9JN14,C9JH46,C9J	UPI00001D9A86	NM_015401.3	
N14,Q75N10,C9JLX1,C9	UPI000019AB75	NM_178425.2	
H0UI53,H0UI52	UPI0000070B81	NM_016063.2	
	UPI0001818C59	NM_001135565.1	
Q6P664	UPI000013D4D4	NM_018072.5	
Q6P664	UPI000013D4D4	NM_018072.5	
Q6P664	UPI000013D4D4	NM_018072.5	
	UPI0000D61BE2	NM_017802.3	deleterious(0.02)
G3V4V5	UPI0000E8AC98	NM_015382.2	
G3V4V5	UPI0000E8AC98	NM_015382.2	
B1ALG6	UPI000006F63A	NM_018063.3	
B1ALG6	UPI000006F63A	NM_018063.3	
	UPI000012C594	NM_016173.3	
H0YL74,H0YL07,H0YKW7	UPI0000212760	NM_003922.3	
63,I1VA60,I1VA56,I1VA5	UPI0000001700	M_000410.3,NM_139006	tolerated(0.74)
C9JS80,C9JDP4	UPI000000D92B	NM_000601.4	
C9JL39,C9JHL0,C9JEF1	UPI000012DC51	NM_020707.3	
F1T0G3	UPI000022988D	NM_001127258.1	
	UPI0000073F44	NM_016438.3	
	UPI000004F5CC	NM_005340.6	
B2R4S9	UPI0000000C24	NM_003522.3	
	UPI00000003C7	NM_003530.4	

VEP annotated somatic variants

Q6B823,B2R4R0	UPI000000003C	NM_003544.2	
	UPI00003666D2	NM_025130.3	
7AP3,Q67AP1,Q49U72,Q	UPI000004494C	NM_002121.5	deleterious(0.03)
C9JD75,C9JQC9	UPI0000126A8C	NM_001242784.1	
	UPI0000161FA7	M_003071.3,NM_139048.2	
r91,Q0G847,F5GY90,B5L	UPI000012C47A	NM_000190.3	
Q7Z641,B0QXZ9,B0QXZ8	UPI00003765B4	NM_001003681.2	
Q7Z641,B0QXZ9,B0QXZ8	UPI00003765B4	NM_001003681.2	terious_low_confidence(C
IJ2,E0YMJ1,B8YNW1,B8	UPI000013CF6C		
IK8,M0QZV6,M0QYZ0,M0	UPI000013D3F4	NM_007040.3	
<7ENU5,K7EMR5,K7EJ48	UPI00003D0BC0	NM_013312.2	
M0R244,B2ZDQ2	UPI000003FE67	NM_182983.2	
	UPI000000D7EB	NM_024747.5	
	UPI000012CCD5		
Q86UN1,Q75LH0,A4D2N2	UPI000004477E	NM_024012.3	
Q5H963	UPI00004A0DAC		
Q5H963	UPI00004A0DAC		
B7Z1W8,A0N0L8	UPI0000049DCB	NM_001283052.1	tolerated(0.11)
B7Z1W8,A0N0L8	UPI0000049DCB	NM_001283052.1	
B7Z1W8,A0N0L8	UPI0000049DCB	NM_001283052.1	
H0YLL5,B4DSZ6,B4DFL2	UPI000012D1C3	NM_002168.2	
,H0YLI6,H0YKD0,B7Z9J8	UPI000012D1AC	NM_005530.2	
/E6,H3BR88,H3BR65,H3I	UPI00001412C9	NM_005531.2	tolerated(1)
C9JCU0	UPI000012D69B		tolerated(0.36)
H0YNR0,H0YMJ5	UPI000012D3EA	NM_000875.3	
A0N9R7,A0N9R6	UPI0000072478	NM_000876.2	
A0N9R7,A0N9R6	UPI0000072478	NM_000876.2	
A0N9R7,A0N9R6	UPI0000072478	NM_000876.2	
	UPI000058F1A8	NM_001101372.1	
	UPI0000E0C769	_001555.4,NM_001170961.1	
	UPI0000E0C769	_001555.4,NM_001170961.1	
	UPI0000E0C769	_001555.4,NM_001170961.1	
C9JAD3,C9IZX3	UPI000013D9B3	NM_001015887.1	
C9JAD3,C9IZX3	UPI000013D9B3	NM_001015887.1	tolerated(0.61)
C9JAD3,C9IZX3	UPI000013D9B3	NM_001015887.1	
	UPI0001D3B05B	NM_173588.3	
G5EA26	UPI0002C439DB	NM_001277285.1	
38,F5H2T0,B3KNB2,B3K	UPI000013D2D0	NM_003640.3	
	UPI000013E2E3	NM_153461.3	
F5H675	UPI000006FA41	NM_014432.3	deleterious(0)
	UPI0000071143	NM_021258.3	
	UPI000012D4A3	NM_000417.2	
	UPI000000DC3E	NM_173618.1	
I3WAC9,F6MZK5	UPI00000017EA	NM_001185098.1	
	UPI00001F9AED	NM_001042376.2	
,Q2PJC1,Q2MKP2,B4DT	UPI000020324D	NM_000208.2	
,Q2PJC1,Q2MKP2,B4DT	UPI000020324D	NM_000208.2	
	UPI0000D7211C	NM_001080453.2	
	UPI0000D7211C	NM_001080453.2	
0V7,C9JVX2,C9J885,C9J	UPI0000030C84	NM_012141.2	
E7EWC2,D6R939	UPI000020CB2C	_006633.2,NM_001285460.1	
F2Z2E2	UPI000046FFDD	NM_178229.4	
	UPI0000DBEEF0		
J14,C9JYP7,C9JB67,C9J	UPI000013CC7D		
J7NNX4	UPI000011DFC0	NM_019612.3	

VEP annotated somatic variants

	UPI000013D8D1	NM_003637.3	
	UPI000013D8D1	NM_003637.3	
Q8IUA2,E7EP60	UPI000052D444	NM_000885.4	
	UPI00001AE8BB	NM_002207.2	
	UPI000013D6C3	NM_002218.4	
	UPI000013D6C3	NM_002218.4	
	UPI000013D6C3	NM_002218.4	
	UPI000000D98A	NM_004867.4	
	UPI000013D92B	NM_002221.3	
I1VE21	UPI00001FB7D2	NM_002223.2	
I1VE21	UPI00001FB7D2	NM_002223.2	
A6H8K3	UPI000013CB74		
	UPI0000074521	NM_033397.3	
Q6PAW2,C9JXS9,C9J1A4	UPI00001403C6	NM_003024.2	
Q6PAW2,C9JXS9,C9J1A4	UPI00001403C6	NM_003024.2	
Q6RFK0,D6RCS1,D6RC0	UPI000020B45B	1,NM_001287440.1,NM_001287439.1,NM_001287	
F2Z3N8,F2Z2B6	UPI0000073DE6	NM_014735.3	
	UPI000157482F	NM_001105521.2	
Q96PA1	UPI0000161C67	NM_004973.3	
Q96PA1	UPI0000161C67	NM_004973.3	
Q96PA1	UPI0000161C67	NM_004973.3	
	UPI0000167818	NM_003772.3	
Q8WUM7,Q53U93	UPI00001AF26E	NM_001256876.1	
B1ALP6,B1ALP5	UPI000022AE73	NM_181712.4	
B1ALP6,B1ALP5	UPI000022AE73	NM_181712.4	
B1ALP6,B1ALP5	UPI000022AE73	NM_181712.4	
B7ZBC9,B7ZBC8	UPI0000071D68	NM_007044.3	
	UPI000004F638	NM_031886.2	tolerated(0.72)
B7Z435	UPI000012E169	NM_172160.2	
	UPI0000F079EF	NM_001031836.2	
Q68,F5GY15,F5GWK6,B3I	UPI000004DAE1	NM_031954.3	
	UPI000013F484	NM_198404.2	
F5H275	UPI000020C6A8	NM_016604.3	
B4DGH3	UPI000013D35A	NM_014663.2	
K7ES23	UPI00001C202B	NM_015015.2	
	UPI0000135A93	NM_004653.4	
Q68D33,Q59HG3,Q590H4	UPI000013DA92	NM_021140.2	tolerated_low_confidence(0.1)
	UPI000045761B	NM_030647.1	
	UPI000045761B	NM_030647.1	
	UPI000045761B	NM_030647.1	tolerated(0.74)
B0QY18	UPI00001C0A16	NM_015264.1	
B3KN93	UPI0000DD87B4		
C5NM88,B5MDV5	UPI000150AF4A	NM_020340.4	tolerated(1)
	UPI00001BBB23	NM_015496.4	
U3KQN7,U3KQG6	UPI000194EC26	NM_001145304.1	
	UPI000013EF89	NM_153369.2	
	UPI000012DDA3	NM_014875.2	
	UPI0000185F1A		
	UPI0000F0A553	NM_153209.3	
G1UI30,C9JBH1	UPI0002065B81	NM_001244008.1	
I3L1B1	UPI0000001C26	NM_006612.5	
	UPI00001F9377	NM_016195.2	
B7Z7E7	UPI000006CD6C	NM_014970.3	
	UPI00000315C2	NM_012311.3	

VEP annotated somatic variants

	UPI000012DED8	NM_005655.3	
D6RGC3,B4DFZ5	UPI0000E20649		
Q49A95	UPI00001AE9B8	NM_020803.3	
F5H8E3,F5H207	UPI000006D8A7		
6N019,Q75MN6,H0YMU	UPI0000141B9F	NM_170606.2	
B4DFN0	UPI00003529F7		
J3KQF2,F5H5V0	UPI0000047FD6	NM_014708.4	
	UPI00004193B5	NM_001145715.1	
J3QRG4,J3QR48,B7ZAV6	UPI0000001C21	NM_002265.5	
	UPI000002AD01	NM_032045.4	
	UPI000013D842	NM_000421.3	
	UPI000013C883	NM_002278.3	
	UPI000012DAFA	NM_003771.4	
	UPI000036709D	NM_198690.2	
	UPI00003D4D71	NM_198697.2	
	UPI000021C443	NM_198698.1	
	UPI000012E77E	NM_031488.4	
Q59H37	UPI00003673E0	_001079823.1,NM_000426.3	
Q59H37	UPI00003673E0	_001079823.1,NM_000426.3	
79,E5RHF3,E5RFQ2,E5I	UPI000013C937	NM_001105206.2	
79,E5RHF3,E5RFQ2,E5I	UPI000013C937	NM_001105206.2	
R4GNC7	UPI000013CFC7	NM_002293.3	
R4GNC7	UPI000013CFC7	NM_002293.3	
R4GNC7	UPI000013CFC7	NM_002293.3	
	UPI000013D4CA	NM_005562.2	
	UPI0000073DC2	NM_004690.3	
	UPI00001927D1	NM_178434.2	
	UPI00000498C5	NM_178469.3	
	UPI0000470177	NM_001013693.2	
B4DI45	UPI000012EB75	_014319.4,NM_001167614.1	
	UPI000012E5D5	NM_001040167.1	
	UPI0000202BCD	NM_012276.3	
Q75MU4	UPI000013D678	NM_002314.3	
	UPI00000497E2		tolerated(0.55)
F8VVE2	UPI0000071212	NM_018113.2	
E9PRJ0,E9PLH4	UPI0001929501	NM_015842.2	
	UPI000013C94B	NM_005575.2	
E9PQH4	UPI0000696489	NM_152271.3	
	UPI0000211E03	NM_001031855.1	
	UPI0000211E03	NM_001031855.1	
	UPI000013D224	NM_005576.2	
C9J5C8,C9J4E3,C9J3U9	UPI000002E034	_005578.3,NM_001167672.1	
33V2F6,F8W9L6,F8VRE4	UPI000034ECC4	NM_006152.3	
373,Q53S26,Q53RL0,Q53	UPI00001B045B	NM_018557.2	
E9PHY1	UPI0000073246	NM_002335.2	
	UPI000006DF62	NM_001135772.1	deleterious(0)
	UPI000006DF62	NM_001135772.1	
	UPI00000354C2	NM_002337.3	
	UPI000013E4BC	NM_152329.3	
	UPI00001F98A9	NM_001006939.3	deleterious(0.04)
	UPI000021002F	NM_033402.4	
A8MY60	UPI0000ED4E82	NM_001079910.1	
	UPI0000DBEEC1	NM_018385.2	tolerated(0.11)
	UPI000006E20E	NM_015578.2	tolerated(0.38)
	UPI000000412A		

VEP annotated somatic variants

	UPI000012A14D	_002340.5,NM_001145436.1	
G1UI34	UPI000049DF6C	NM_015565.2	
	UPI000019816C		
A8K8E0	UPI0000366E14	NM_173506.4	
	UPI000007311C	NM_212551.4	
,Q9BRY6,B1AL13,B1AL1:	UPI00001BD944		
,Q9BRY6,B1AL13,B1AL1:	UPI00001BD944		
IX80,C9JTA2,C9JKI7,C9J	UPI0000072C4D		
	UPI0000000A29	NM_002358.3	
A8IF97	UPI0000035FCB	NM_004988.4	
Q6FHH8	UPI0000000C51	NM_001166386.1	
	UPI000012F055	NM_002367.3	
A0PK03	UPI000006F2FD	NM_005462.4	
	UPI000012F059	NM_016249.3	
	UPI000000123B		
	UPI0000237828	NM_206920.2	
Q6ZUZ1	UPI00017A6EBC	NM_001177465.2	
	UPI000013D632	NM_005907.3	
Q49A69	UPI000013D193	NM_002372.2	
Q05BN7,B3KQN1	UPI000004BF05	NM_015274.1	tolerated(0.37)
	UPI00002036F9	NM_018174.4	deleterious(0.02)
E7EWI5	UPI0000E444D0	NM_001001671.3	deleterious(0.02)
Q7Z4E6	UPI0000074003	NM_203351.1	
	UPI00000747ED	NM_007181.4	
Q53TW0,E7ETN6	UPI00000747E2	_145687.3,NM_001242559.1	
C9JPW3,C9J8E1	UPI0000073D7E	NM_001243926.1	
	UPI000004A042	NM_014975.2	
	UPI000004A042	NM_014975.2	
J3QT34	UPI000173A2B0	NM_001164664.1	
	UPI000016054E	NM_003833.4	
F5GYT8,F2Z3E2,E9PHF7	UPI000013D646	NM_020166.3	
N0GVG8,B3KWZ4	UPI000012ED4A		
D6RHU8,D6RFG6	UPI0000071D28	NM_153487.3	
M0QXR3	UPI000013C4B8		
M0QXR3	UPI000013C4B8		
	UPI0000253F1B	NM_001110792.1	
	UPI00001414B1	NM_004229.3	
IT8,Q5T8T6,E9PGW7,E7	UPI000013623C		
	UPI00002029A3	NM_030973.3	
B4DUA7,B4DN56,B4DGM	UPI00001D81AE	NM_017592.1	tolerated(1)
	UPI000020380F		
	UPI0000DACACB	NM_001409.3	
J3KRK1	UPI0000201B8B	NM_005925.2	
.53,Q53QW0,Q07941,E9F	UPI000013E252		
B3KSH0	UPI000006CD69	NM_019852.3	
C9JE69,C9J6U8,C9J3F1,	UPI0000D4CA51	NM_024770.3	
	UPI0000DBE357	NM_021731.2	
	UPI0000231C88	NM_198955.1	
	UPI0000231C88	NM_198955.1	
	UPI0000231C88	NM_198955.1	
Q6LDD1,B4DEE8	UPI00017A6D43	NM_002412.3	tolerated(0.48)
C9J922,A8K0E1	UPI0001823FDE	NM_015241.2	
C9J922,A8K0E1	UPI0001823FDE	NM_015241.2	
C9J922,A8K0E1	UPI0001823FDE	NM_015241.2	
C9JZJ7,C9J453	UPI000012F0E6	M_033289.1,NM_000381.3	

VEP annotated somatic variants

Q9HBM9,Q8NG69	UPI00001678BB	4937.3,NM_015716.4,NM_153827.4	
Q9HBM9,Q8NG69	UPI00001678BB	4937.3,NM_015716.4,NM_153827.4	
F5H1S8	UPI000013938A	NM_014730.2	
	UPI000013D922	NM_032435.2	
	UPI000006F7B3	NM_005934.3	
	UPI000006FDF6	NM_147191.1	
	UPI000020E726	NM_005515.3	
Q7ESA9,K7EPX7,K7ELS3	UPI000006E000	NM_130807.2	tolerated(0.38)
	UPI000003E75D3	_001085354.2,NM_024657.4	
	UPI000003E75D3	_001085354.2,NM_024657.4	tolerated(0.22)
Q1I8,H0YMT8,H0YM21,H0YMT2	UPI00001FE9BB		
	UPI000003617B		
Q9BS79,F5H742,F5H256	UPI000012F4D3	NM_005591.3	
C9K0L2,B7ZBM2	UPI0000198C4E2	NM_001039464.2	tolerated_low_confidence(0.01)
C9K0L2,B7ZBM2	UPI0000198C4E2	NM_001039464.2	tolerated(1)
C9K0L2,B7ZBM2	UPI0000198C4E2	NM_001039464.2	deleterious(0.01)
B4DEH0	UPI000013DFCA		
	UPI000007437B	NM_032477.2	
C9J5Q3	UPI0000167F88	NM_176794.1	
B4DP77	UPI0000135254	NM_018141.3	
H0YI08,E9PRG4	UPI00001F78343	_130385.3,NM_001206880.1	
Q53RU4,C9J809,B4DL3C	UPI00000405F6	NM_000251.2	
D6REA2,D6RDP9	UPI000012A0D3	NM_006745.4	
Q96QW8,B1AKQ2,B1AKP	UPI000012ABD3	NM_004958.3	
	UPI0000036BC4	NM_000254.2	
	UPI0000036BC4	NM_000254.2	
	UPI0000036BC4	NM_000254.2	
	UPI0000036BC4	NM_000254.2	
	UPI000012F826	NM_000253.2	
F8WE81,B5ME49	UPI0000065CA24	NM_024690.2	
F8WE81,B5ME49	UPI0000065CA24	NM_024690.2	
C9JCE7	UPI00003B927DE		
C9JCE7	UPI00003B927DE		
Q1I9,Q9HBC6,H0Y2U6,E7I	UPI000006C10F2	NM_002457.2	
	UPI000012A0C6	NM_002461.1	
	UPI000013C73B	NM_015419.3	
	UPI0000EE5F22	NM_001145113.2	
B6D426	UPI000006EEAA	NM_000256.3	
Q68D89,Q66K75	UPI000005B7237	NM_001040114.1	
H9XFA0	UPI0000253B6F	NM_014981.1	
5E6,A8CLN2,A8CLL2,A6F	UPI000014019B	NM_000257.2	
5E6,A8CLN2,A8CLL2,A6F	UPI000014019B	NM_000257.2	
5E6,A8CLN2,A8CLL2,A6F	UPI000014019B	NM_000257.2	
Q9UMJ0,B1AH99	UPI000012FB80	NM_002473.4	
Q05B98,Q05B97,D6R9C2	UPI000020A0AE	NM_053025.3	
K7EQV1,G3V4G3	UPI0000E59E6E	NM_016239.3	
Q8N903	UPI0000207402	NM_032608.5	
Q157,K7EP95,K7EMZ0,K7E	UPI0000173AA19	NM_001163735.1	
Q14779,M0QXU2	UPI00001678F0	NM_012335.3	
Q9UES4	UPI0000E445E1	NM_000259.3	
Q4LE74	UPI000020367C	_001130065.1,NM_004145.3	
	UPI000012FBA4	NM_002479.5	
A5PKT7	UPI00002288CF	_032578.3,NM_001256267.1	
	UPI0000D45F7B	NM_001127392.1	
	UPI0000204444	NM_001085487.2	

VEP annotated somatic variants

	UPI000004FA2B	NM_024635.3	
	UPI0000073EEB		
	UPI000013F295	NM_016256.3	
	UPI0000046F0E	NM_004851.1	tolerated(0.6)
J3QQR6,J3QQJ2	UPI000007106D	NM_015654.3	
Q4ZG05,H7C007	UPI00001AEA68	NM_015909.3	
,Q3LRJ5,Q3LRI9,Q3LRI6	UPI0000161BF3	NM_031858.2	tolerated(0.35)
,Q3LRJ5,Q3LRI9,Q3LRI6	UPI0000161BF3	NM_031858.2	
,Q3LRJ5,Q3LRI9,Q3LRI6	UPI0000161BF3	NM_031858.2	
,Q3LRJ5,Q3LRI9,Q3LRI6	UPI0000161BF3	NM_031858.2	
Q4LE67,F5H7X3	UPI000013CD70	NM_004386.2	tolerated(0.22)
F5GZK7	UPI000013C8CA	NM_014865.3	
Q96FA6,E9PLE0,E9PL84	UPI00001C1EFE	NM_015261.2	
E9PHA2,B4E189	UPI0000163F72	711.1,NM_001281710.1,NM_015341.4	
	UPI000013C634		
Q9NSZ0,C9JAP0,B4DJ2E	UPI000013D7D5	NM_006311.3	
Q9HC12,Q9HC11,B7Z9L2	UPI00001308D2	NM_004550.4	
H7C2D0,F8WCL5	UPI0002065BA0	NM_001164508.1	
H7C2D0,F8WCL5	UPI0002065BA0	NM_001164508.1	
H7C2D0,F8WCL5	UPI0002065BA0	NM_001164508.1	
C9JEM7,B3KSP0	UPI00004A2565		
	UPI000006E19B	NM_013349.4	
	UPI000006E19B	NM_013349.4	
B4DDI0	UPI000022ABDC	NM_144573.3	deleterious(0.03)
D6RF93,D6RC45	UPI0000192724	_003998.3,NM_001165412.1	
M0R119,M0QZX1	UPI000016A5CD	NM_001077494.2	
C9JZ23,C9J5I7,C9J5G8	UPI000006FBB1	NM_031419.3	
	UPI0000198CE1	NM_198586.2	
B4DS58	UPI0001750345	NM_020464.1	
	UPI000013D4D9	NM_002508.2	
H7C162,E9PJH9	UPI0000DBEF14	M_016350.4,NM_182946.1	
	UPI000006FFD0	NM_020448.4	
	UPI00001D7EEA	NM_001099287.1	tolerated(0.81)
A2RRA7	UPI00003761B5	M_133433.3,NM_015384.4	
C9JDV8	UPI00001303FF	_001202502.1,NM_003634.3	
	UPI000036715D	NM_007184.3	
	UPI0000074709	NM_014360.2	tolerated(0.11)
	UPI000006FCBB	NM_181303.1	
	UPI0000126FAD		
	UPI00001AEEBD	NM_153447.4	
	UPI00001AEEBD	NM_153447.4	
	UPI00001AEEBD	NM_153447.4	
	UPI00001B6B39	NM_176820.2	
F5H5K6	UPI00000723C4	NM_024078.1	
	UPI0000050326	NM_022917.4	
	UPI00001A9472		
Q9BSN3	UPI000016A81D	NM_006392.3	
H7BY61,E9PIP8	UPI000019C573	_014697.2,NM_001164757.1	
P37,Q96J98,O14937,E7E	UPI000013E417	NM_000603.4	tolerated(1)
P37,Q96J98,O14937,E7E	UPI000013E417	NM_000603.4	
H9CXX2	UPI0000210F68	NM_017617.3	
H9CXX2	UPI0000210F68	NM_017617.3	
	UPI000013DF88	NM_013389.2	
Q5T6D8	UPI000005048B	NM_022146.4	deleterious(0)
	UPI0000353D0F	NM_207173.1	deleterious(0.01)



VEP annotated somatic variants

	UPI000013040F	NM_002523.2	
	UPI0000209A6C	_005126.4,NM_001145425.1	
F1DAL4	UPI00003E7F93	_005122.4,NM_001077478.2,NM_001077480.2,NM	
Q658X2,E9PBK4	UPI00001FD9DB	NM_017970.3	
1N8,Q96DQ7,Q658U6,D6	UPI000006F9C6	NM_022455.4	
G3V1R4	UPI000020BF2B	NM_017755.5	
E9PAL9	UPI00017C1445	NM_001134231.1	
M0R0X2	UPI000004FD88	NM_006179.4	
A4D2J8	UPI000020EEEB	NM_015332.3	deleterious(0.02)
	UPI000013C768	NM_012345.2	
	UPI0000237454	NM_001010906.1	
F5GY77	UPI000012FC0B	NM_020401.2	
H0YDI2,E9PS86	UPI00001BBB2F	NM_005085.3	
A0PJK4	UPI000013071D	NM_198887.1	
B4E2D3	UPI000013079E	NM_007172.3	
Q53H29,E7EUM5	UPI0000036166	_001278603.1,NM_017426.3	
Q53H29,E7EUM5	UPI0000036166	_001278603.1,NM_017426.3	
I3L245	UPI0000130894	NM_002532.4	
I3L245	UPI0000130894	NM_002532.4	
	UPI00000015F8	NM_022052.1	
	UPI0000F059DC	NM_032946.2	
	UPI0000F059DC	NM_032946.2	
	UPI0000F059DC	NM_032946.2	
	UPI00001B31EB	NM_022463.4	
C9JXC3,C9JNE2	UPI000007355C		
	UPI0000E07EA0	NM_015311.2	
	UPI00001AF029		
	UPI0000140FD5	NM_001017989.2	
	UPI000004B1E7	NM_001005276.1	
	UPI00001410CA	NM_002550.2	deleterious(0)
	UPI0000061EB2	NM_001005274.1	
	UPI0000041D58	NM_001005272.3	terious_low_confidence(C
	UPI000013F8A8	NM_001004701.2	
A4FU14	UPI0000041B31	NM_033179.2	
	UPI0000041BDD	NM_001001913.1	
	UPI000015F240	NM_001004731.1	tolerated(1)
	UPI00001606CE	NM_001005515.1	
	UPI00000405D5	NM_006637.1	
	UPI000004B22E	NM_001004745.1	
H0Y7X4	UPI0000130E96	NM_144498.2	
J3KRK7,H3BTF9	UPI000006CF29		
J3KRK7,H3BTF9	UPI000006CF29		
	UPI000004CAC3	NM_003999.2	
H0YN66	UPI0000073AA5	NM_130901.1	
S4R3Q9,J3KNA0,C9JC63	UPI000013DE11	NM_005015.3	
C6G7W3	UPI000002E776	NM_002565.3	tolerated(0.7)
B3KTQ9	UPI0000000CAA	NM_000918.3	
B1ANR1	UPI00002057C5	NM_001135653.1	deleterious(0.04)
E9PSG7,E9PSE1,E9PNZ	UPI0000190973	NM_018026.3	
	UPI0000071A52	NM_130467.3	
B7Z6Y8	UPI0000001616	NM_002579.2	
	UPI0000131D49	NM_148977.2	
	UPI0000131D49	NM_148977.2	
	UPI000000DA54	NM_018216.1	deleterious(0.03)
Q53T81,Q53T17,Q2TAI9	UPI00000704EB	NM_022894.3	

VEP annotated somatic variants

	UPI00000492D2	NM_152268.3	terious_low_confidence(C
J3KNQ4	UPI0000EE3866	NM_018222.4	
	UPI000041A256	NM_001003828.2	
R9W7C9	UPI0000071DEC	NM_003466.3	
	UPI0000073D97	NM_021635.2	erated_low_confidence(0
A2A3E7,A2A3D9	UPI0000EE048B	001142765.1,NM_001142764.1,NM_001142763.1	
	UPI00001FCE90	NM_203487.2	tolerated(0.12)
	UPI0001573469	NM_033026.5	
H7BY58,C9J0F2	UPI0001B7942B		tolerated(0.87)
	UPI00001AEB88	NM_006031.5	
	UPI000049DFA7	NM_177966.5	tolerated(0.06)
246,Q9UNL9,Q53TB0,Q5	UPI0000001072	_001258312.1,NM_005019.4	
F5GXX2,C9JPD5	UPI000003B340	NM_002599.4	
	UPI000013C84A	NM_006204.3	
26RIG5,D6RG11,D6RDXI	UPI0000131793	NM_006206.4	
E5RJ14,E5RII0	UPI0000131791	NM_002609.3	
E5RJ14,E5RII0	UPI0000131791	NM_002609.3	
	UPI000013DB22	NM_014317.3	
K7,H3BU11,H3BQS3,H3I	UPI000004A864	_015027.2,NM_001285447.1	
K7,H3BU11,H3BQS3,H3I	UPI000004A864	_015027.2,NM_001285447.1	
S4R3X4	UPI0000072FD2	NM_024895.4	
H3BUZ5,H3BUE6	UPI00002378D0		tolerated(0.34)
A6PVP2	UPI000045889A		
A6PVP2	UPI000045889A		
A6PVP2	UPI000045889A		
K7EQ51	UPI000006F8BF	NM_000285.3	tolerated(0.79)
K7EQ51	UPI000006F8BF	NM_000285.3	
3R6,Q5VSR5,B1APP8,B1	UPI00000012D2	NM_002627.4	
3R6,Q5VSR5,B1APP8,B1	UPI00000012D2	NM_002627.4	
	UPI000035154F	NM_024989.3	
B7Z7A9,B4DHM5	UPI00000727EE	NM_000291.3	
M0R2W8,M0QYW3	UPI000004EEA6	NM_052890.3	tolerated(0.18)
	UPI000006F12B	NM_052891.1	
	UPI0000211A97	NM_005392.3	
	UPI000013DA40	NM_017934.5	
	UPI000013D340	NM_002637.3	
	UPI0000192101	NM_015157.3	
	UPI000189A834		
	UPI000019790E	NM_181643.4	
	UPI000012B9D1	NM_005482.2	
3PNO,K7ENC3,K7EMD7,KI	UPI0000070A47	NM_176787.4	
C9JLC8	UPI00001984EA		deleterious(0)
L7RT34,J3KT66,J3KRE9	UPI0000071DB4	3.2,NM_001251852.1,NM_001251853.1,NM_001251854.1	
	UPI0000366FD6	NM_015040.3	
	UPI00001582C4	NM_001001852.3	
	UPI00002073D6	001255975.1,NM_001008496.3	
K7EPI8,B4DDN5	UPI000006D00A	9.3,NM_001032396.2,NM_022368.4	
	UPI000013C4C0	NM_138694.3	
	UPI000013C576	NM_004572.3	
	UPI000002FED1	NM_005084.3	
26LBF5,E5RHG4,E5RGA	UPI0000000DD4	NM_000930.3	
	UPI0000D6117C	NM_153021.4	
B7ZM61	UPI00001F93EE		
B7ZM61	UPI00001F93EE		

VEP annotated somatic variants

B7ZM61	UPI00001F93EE		
B7ZM61	UPI00001F93EE		tolerated(1)
H3BQV5	UPI00001411F7	NM_002661.3	
	UPI00006C0134		
	UPI00006C0134		
Q96IE3,E9PQ28	UPI0000233FCD	NM_201380.2	
Q96IE3,E9PQ28	UPI0000233FCD	NM_201380.2	
Q96IE3,E9PQ28	UPI0000233FCD	NM_201380.2	
Q96IE3,E9PQ28	UPI0000233FCD	NM_201380.2	
Q96IE3,E9PQ28	UPI0000233FCD	NM_201380.2	
Q96IE3,E9PQ28	UPI0000233FCD	NM_201380.2	
B3KR92	UPI000206539E	NM_001265592.1	
B3KWD2	UPI00001C1F64	NM_020715.2	
B3KWD2	UPI00001C1F64	NM_020715.2	
B3KWD2	UPI00001C1F64	NM_020715.2	
J3KSM5	UPI00001416D8	NM_032129.2	
	UPI000015FEF2		
I3QR40,C9JWQ3,C9JCL	UPI0000049814	NM_020405.4	
Q2TBE4,E2PU09,A6QRH	UPI000003812D		
Q8TEZ9	UPI000013E3A2	NM_032870.2	
B8XXQ3	UPI000189560E	NM_001145717.1	erated_low_confidence(0
U3N901	UPI000006CED5	NM_025225.2	
	UPI0001AE63FF	NM_001166111.1	
F8VUJ3	UPI0000228FE1	01199781.1,NM_001199782.1	
E9PIU7	UPI000002926B	NM_002696.2	
Q05DB8	UPI0000134605	NM_006466.2	
Q05DB8	UPI0000134605	NM_006466.2	
	UPI000013CEB8	NM_006475.2	
D5K9T1	UPI000013F18B		tolerated(1)
M1,E9PFJ1,E7EUD1,E7I	UPI0000055911	NM_015869.4	erated_low_confidence(0.
M1,E9PFJ1,E7EUD1,E7I	UPI0000055911	NM_015869.4	
	UPI000002A7A2	176.2,NM_148175.2,NM_014337.3	
A7E2X1	UPI000013ECF6	NM_014906.4	
Q96TC9,Q96SE3	UPI0000000C3C	NM_001122764.1	
I3L267	UPI0000061E1A	NM_001007533.3	
Q6IN90,B3KMA9	UPI000013EC98	NM_018461.3	
	UPI0000124EAC	_001190447.1,NM_002718.4	
C9JQA1	UPI0000073DB7	NM_005710.2	
	UPI000013D572	NM_018699.2	
Q05CA1,E9PEH0	UPI0000422A1D	NM_020226.3	
	UPI00001314E8	NM_006406.1	
	UPI00001314E8	NM_006406.1	
	UPI00001314E8	NM_006406.1	
	UPI000006E28E	NM_002726.4	
Q56UR8	UPI0000375435	M_024870.2,NM_025170.4	
	UPI000013CF50	_002728.4,NM_001243245.1	
D6RAH5,D6R971	UPI000013E37F	NM_152683.2	
C9JZU8,C9J9P1,B4DFV1	UPI000000DA36	NM_212539.1	
C9JZU8,C9J9P1,B4DFV1	UPI000000DA36	NM_212539.1	
Z8,D6RDM0,D6RD31,D6I	UPI0000169EB7	NM_002744.4	
G3V5T6,G3V5L5,B4DV0C	UPI000006F09F	NM_006109.3	
	UPI00017E10D9	NM_001134316.1	tolerated(0.19)
B1AHG4,B1AHG3	UPI00002327F8	NM_001198721.1	
B1AHC4,Q52M44	UPI000002B27B		
B4DNP1	UPI00001FFF6A	_173502.4,NM_001258290.1	

VEP annotated somatic variants

	UPI0001612CC0	NM_015225.2	
	UPI000013CCF5	NM_031246.3	
		NM_002783.2	
Q9UMH8,Q15461,Q12810	UPI00001327A5	NM_002784.3	
	UPI0000132792	NM_002816.3	
	UPI000012990A	_003720.3,NM_001261824.1	
	UPI0000039F04	NM_020232.4	
	UPI000012E24A	NM_001146108.1	
31,Q69YS2,Q5VWH6,Q51	UPI0000132991	NM_006504.4	
G1UI20	UPI0000470154	NM_002840.3	
O60420	UPI00001AEBFB	NM_002841.3	
	UPI0001747A04	NM_001135648.1	
Q9NSR5	UPI000002E7C7	NM_002847.3	
	UPI000007334C	NM_001013658.1	
E9PL65	UPI0000203D8E		
E9PL65	UPI0000203D8E		
E9PL65	UPI0000203D8E		
E9PL65	UPI0000203D8E		
	UPI00000510D0	NM_015617.2	
B5MDP1,B3KWN8	UPI000006CE59	NM_024854.3	
K7EL58	UPI000000D857	NM_032932.3	
Q6PJZ0,F8WAG1	UPI000006FCEB	NM_022449.3	tolerated(0.18)
	UPI000003F780	NM_022337.2	
D6REW8	UPI0000DA58DE	NM_001032726.2	
	UPI00000745A5	NM_004703.4	
H0YLG7,D3DS70	UPI000013188E	NM_004581.5	
J3QLK0,J3KSC4	UPI00000041DA	NM_005052.2	
G3V4W9,C9J5S9	UPI0000073AB0	NM_133509.3	
F5H6X3,C9J7G0	UPI0000E0A787	NM_018059.4	
L7RRS6	UPI0000049CFC	NM_002880.3	
B3KMZ9	UPI00001B296B	NM_001145525.1	
Q5T3T1,Q5T3T0,Q5T3S6	UPI0000EE7109	NM_001145658.1	
F8W0N0,F8VXK1,B3KP1!	UPI0000406B36		
	UPI0000071D46	NM_005055.4	
Q1W2K8	UPI000006FD97		tolerated_low_confidence(0.1
	UPI0000070DF1	468.1,NM_001204467.1,NM_005676.4	
	UPI00001A95DC	NM_022118.3	
	UPI00001D7F03	NM_018989.1	
E5RJD7,E5RFP4	UPI000002B229	NM_001008712.2	
	UPI0000133587	NM_021111.2	
	UPI00000012B7	NM_006509.3	
	UPI000020E30A	NM_031922.3	
	UPI00000015BE	NM_032579.2	
	UPI000013CC65	NM_021026.2	
	UPI000000DA67	NM_052859.3	
	UPI000000DA67	NM_052859.3	
N3,C9JWQ9,C9JHG2,B4	UPI00001C1DE7	NM_015150.1	
	UPI0001A5C4AD		
	UPI000040E182	NM_002924.4	
F5GZV2	UPI0002065232	NM_015653.4	
B7ZAU7	UPI000002A3C9	NM_020639.2	
B4DZV7	UPI000000DC2B	NM_022780.3	
B4DZV7	UPI000000DC2B	NM_022780.3	
	UPI00001343E6	NM_006397.2	
	UPI000005339F	NM_021133.3	

VEP annotated somatic variants

	UPI0000133895		
	UPI0001AE7525	NM_173662.2	
	UPI00015D777B	NM_153341.2	
	UPI00006C175E	NM_001146684.2	
	UPI00000713D9	NM_002941.3	
	UPI00000713D9	NM_002941.3	
Q14DU5,E9PF63	UPI000034ECB0	NM_004850.3	tolerated(0.67)
	UPI00001AF82C	NM_005012.3	
	UPI000013D467	NM_002944.2	
H7C1Q1	UPI0001610F54		
R4GNH7,R4GMS1	UPI0002B83260		
	UPI0000035DAB	NM_024604.2	
I,I3L308,I3L2X0,I3L2W0,I	UPI000006FBCB	_006987.3,NM_001190411.1	
I54,M0R3D6,M0R1A7,B4I	UPI0000133CD9	NM_000980.3	
K7EMA7	UPI0000028D48	NM_000984.5	
K7EMA7	UPI0000028D48	NM_000984.5	
I8TBW1,Q49AJ9,G5E9GC	UPI0000167B7E	_001033853.1,NM_000967.3	
Q96IR1,B2R491	UPI0000000066	NM_001007.4	
I4W7,D6RD75,D6R910,B7	UPI000020D48C	NM_001006932.1	
Q6DKI0	UPI000007000F	NM_020761.2	
Q6DKI0	UPI000007000F	NM_020761.2	
	UPI0000198EE6	NM_015056.2	
	UPI0000198EE6	NM_015056.2	
K7EKD3	UPI0000070E2E	NM_018346.1	
	UPI0000000C72		
	UPI00004546A2	NM_001265589.1	tolerated(0.6)
	UPI0000D74C3F	NM_025158.4	
	UPI0000D74C3F	NM_025158.4	
	UPI000046FD20	NM_017987.4	
Q26P3U7,F1D8Q5,B3KY83	UPI0000042A9A	NM_002957.4	
O75591,B4DET7	UPI0000D7E62F		
O75591,B4DET7	UPI0000D7E62F		
O75591,B4DET7	UPI0000D7E62F		
O75591,B4DET7	UPI0000D7E62F		
L9,D7UNU4,D7UNU3,D7	UPI0000DD0308	NM_001035.2	
L9,D7UNU4,D7UNU3,D7	UPI0000DD0308	NM_001035.2	
	UPI0000E5B01A	NM_001036.3	
U3KPY7	UPI000187B6C9	NM_005870.4	
Q5SYV1,B4DPI2	UPI000006F076	NM_007101.3	
	UPI000013559C	NM_016038.2	
Q86TK5	UPI00001D69ED	NM_002972.2	
H0YDZ1	UPI00000622D5	NM_030962.3	
M0R3G4,M0R2L3	UPI0000071891	NM_021228.2	
	UPI000013E800	NM_005698.3	
	UPI0000135F1C	NM_153334.4	
	UPI000013CFF1	NM_144777.2	
Q8NBV9,Q75MG0	UPI000013C4DF	NM_001112706.2	tolerated(0.13)
	UPI000013DC5F	NM_144643.2	
	UPI000013DC5F	NM_144643.2	
	UPI0000EE1E57	NM_198081.3	
F5H4V8,C9JBM7	UPI000002A665	_001081676.1,NM_006922.3	
Q53QP0	UPI0000140AC7	NM_002977.3	tolerated(1)

VEP annotated somatic variants

Q53QP0	UPI0000140AC7	NM_002977.3	
	UPI0000204007	NM_152608.3	
	UPI0000DBEEC4	NM_152744.3	
A4UCS7	UPI0000072378	NM_183352.2	
	UPI0001662AB0	NM_001193336.2	deleterious(0.03)
	UPI0000203C4D	NM_033127.2	
Q5QPE2,B4DS04 E9PDM8,D6RGJ5	UPI0000135455	385.4,NM_032986.3,NM_	deleterious(0.02)
	UPI00001AEA4F		
	UPI0000070A8E	NM_015490.3	
	UPI0000070A8E	NM_015490.3	
	UPI0000070A8E	NM_015490.3	tolerated(0.75)
	UPI0000070A8E	NM_015490.3	
348,Q7L1Z0,Q6AW84,F8\	UPI00001AEA0A	_024077.3,NM_001282688.1	
J3QRU5,J3KTR4,J3KS4C	UPI00000359A5	NM_003004.2	olerated_low_confidence('
	UPI000012E44A	NM_000450.2	
Q6ULR6	UPI0000204D4A	NM_003005.3	
JJ2,Q75MQ2,C9JD25,C9	UPI0000135A60	NM_006080.2	
JJ2,Q75MQ2,C9JD25,C9	UPI0000135A60	NM_006080.2	
	UPI0000135A69	NM_004186.3	
B1AHR2	UPI000067DA91	NM_145733.2	
G3V5I3,G3V3A0	UPI000012509B		
Q53GC0	UPI000006F397	NM_013376.3	
	UPI00006C12ED	NM_015048.1	
	UPI00006C12ED	NM_015048.1	
C9JLM1,C9JLA7,A8K0G4	UPI0000411FEE	NM_001080517.1	
	UPI0000136779		
J3QL37,I3L4G7,H3BMB0	UPI0000167878	NM_012426.4	
	UPI0000135473	NM_031287.2	
	UPI0000032F1A	NM_003901.3	
I3L1Y7	UPI0000160300	NM_014853.2	
I3L1Y7	UPI0000160300	NM_014853.2	
B9A6J5,B0QY80	UPI0000035D8C	NM_015705.4	
	UPI0000073DAA	NM_001206652.1	
	UPI000041B175	NM_014631.2	
	UPI000013E109	NM_016148.2	
	UPI000013E109	NM_016148.2	
D9ZGF9	UPI0000135942	NM_000193.2	
F5H3B6,C9IZC6	UPI0000125D05	NM_001649.2	tolerated(0.41)
	UPI0000135992	NM_053003.2	
	UPI0000206F2B	NM_173354.3	
	UPI000013599A	NM_005069.3	
	UPI00001D7D6A		
	UPI00000389DC	_021181.3,NM_001282595.1	
	UPI000006E8DB	NM_152679.3	
	UPI00001977FD	NM_197965.2	tolerated(0.2)
	UPI0000141815	NM_006598.2	
275MH3,Q75LT0,A4D0X	UPI0000049F9D	NM_022444.3	
	UPI000019C3D5	NM_006517.4	tolerated(0.29)
753,M0R1V3,M0R106,M0	UPI0000129B1A	NM_005071.2	
753,M0R1V3,M0R106,M0	UPI0000129B1A	NM_005071.2	
	UPI0000130BB6	NM_003060.3	
	UPI000020C6FE	NM_152685.3	
G3V505,B4DHR5	UPI000044C5DE		
Q75KX8	UPI0000001663	_014251.2,NM_001160210.1	
K7EMW3,K7ELM7	UPI00001AE651	NM_001143780.1	

VEP annotated somatic variants

K7EMW3,K7ELM7	UPI00001AE651	NM_001143780.1	
J7,I3L3K8,I3L2J9,I3L1H1,	UPI000003E7B7	_001166347.1,NM_173626.3	
	UPI000013DE67	NM_004213.3	
	UPI000013D0D5	NM_004212.3	
Q5VWW5,Q5VVV3	UPI000003E7A8	NM_014580.4	
	UPI00000377B5	NM_032826.4	
B4DJ02,B3KY53	UPI00001609C1	NM_001029858.3	
	UPI000006DD13	NM_173508.2	
E9PRJ4,B7Z480	UPI000019AB60	NM_198277.2	
3Z0,H3BPV9,H3BPK8,H3	UPI000004EC72		
E5RJM7	UPI0000237468	NM_001080431.1	
VC2,C9J9M9,C9J722,C9	UPI000013EFE9	NM_001199692.1	
Q9UEU3	UPI00001359F6	NM_000453.2	
	UPI0000072E3C	NM_007231.3	
M0QYK3	UPI00001305CE	NM_014037.2	
33VRU5,B3VRU0,B3VRS:	UPI0000135493		
B7Z589	UPI000053030B	NM_201649.3	
E9PQT4,E9PIC3,B3KSX4	UPI000012E235	NM_012244.3	
E9PQT4,E9PIC3,B3KSX4	UPI000012E235	NM_012244.3	
	UPI0000071389	_001257291.1,NM_032591.2	
Q4LEJ9	UPI000013F0AD	NM_005630.2	
F6TQG2	UPI0000161FA6	NM_003069.3	
Q4W5H1,Q4W5G3	UPI000006E693	NM_003601.3	
	UPI000042146E	NM_148674.3	
	UPI0000071CCF		
C9JP19,C9JGQ0	UPI00001B0272	NM_134270.2	
I46,B0QZA0,B0QZ99,A8M	UPI000022AFDA		
	UPI000013D6B7		
	UPI0000EE6E4F	NM_020777.2	
A7LBF9	UPI00001601FD	NM_206996.2	
A7LBF9	UPI00001601FD	NM_206996.2	
	UPI000049D98C	NM_001009615.1	
	UPI00001D8243	NM_198572.2	
B9A038	UPI000066D99E	NM_005876.4	
B9A038	UPI000066D99E	NM_005876.4	
<7EM91,K7EKC8,K7EJS4	UPI0000135E8E	NM_021102.3	tolerated(0.14)
B4DFA9	UPI0000136F51	NM_001244950.1	
	UPI0000E59BE4	NM_016642.3	
	UPI0000E59BE4	NM_016642.3	
G1UI29,C9J4U4	UPI000059D368	NM_006662.2	
C9JZA7	UPI000206527B	NM_001256748.1	
	UPI0000001C5C		
	UPI000000D98B	NM_006456.2	
	UPI000000D98B	NM_006456.2	
A8K7N4,A6NjX0	UPI0000001658	NM_175039.3	
H0YIF3	UPI00001ADDF4	NM_017564.9	
C9JZ93,C9JK83,C9JEK5	UPI0000038DA0	NM_213622.2	
	UPI0000073E6C	NM_012108.2	
B4DMS6	UPI0001BE8155	NM_020759.2	
RU2,E9PBE2,C9JM11,C9	UPI00000015F2	NM_003151.3	
C9J4I3	UPI000006F059	NM_012448.3	

VEP annotated somatic variants

E5RJN7	UPI000013D271	01164381.1,NM_001164380.1	
H3BVF2	UPI00000377B6	_001256677.1,NM_001256672.1,NM_004809.4	
	UPI000015D192	NM_001271006.1	
	UPI00001A36D9	NM_182489.1	
-10YD00,H0YC91,E9PKQ0	UPI00000467FD		
	UPI0000160E65	NM_033088.3	
A4D1K4	UPI00001C1E68	NM_020704.2	
	UPI0000199FE0	NM_001127715.2	
F5H4G3,F5H366,F5H2I9	UPI000013C57C	NM_018423.2	tolerated(0.07)
	UPI000012F694	NM_016086.2	
	UPI0000072507	NM_033050.4	
	UPI0000135A5D	NM_006936.2	
	UPI0000072D67	NM_001002255.1	tolerated(1)
2M5,M0R105,B4E0Q4,B4	UPI000006D81A		
2M5,M0R105,B4E0Q4,B4	UPI000006D81A		
	UPI0000070B4A	NM_145006.2	
E9PJM7	UPI0000073652	NM_015055.2	
C2,M0R180,M0R039,M0	UPI00002026C0	NM_004819.2	
26MZP0,G3V5D3,G3V40:	UPI00003677E5	NM_182914.2	
26MZP0,G3V5D3,G3V40:	UPI00003677E5	NM_182914.2	
B4DLC4	UPI000006E2F8	_001178088.1,NM_003898.3	
	UPI00001B03B3	NM_145728.2	tolerated(0.47)
	UPI00001D75EB	_133477.2,NM_00128675	tolerated(0.49)
	UPI0000073C75		
U3KQR0	UPI0000073C75		
U3KQR0	UPI0000073C75		
E7EMT0,C9JA91	UPI0000136869	NM_006342.2	tolerated(0.35)
	UPI0000212176	NM_024885.3	
	UPI0000071CD5	_054114.4,NM_001278733.1	
	UPI0000071CD5	_054114.4,NM_001278733.1	
	UPI00001FE055	NM_152334.2	
	UPI00001FE055	NM_152334.2	
H7BZJ2	UPI000013DEC1	NM_014760.3	tolerated(0.26)
H7BZJ2	UPI000013DEC1	NM_014760.3	
B9A6M3,B0QYI3	UPI0000128722	_014346.2,NM_00128430	tolerated(0.12)
	UPI00001AE7B3	NM_014832.2	
V04,C9JNM0,C9JMP7,C9	UPI000017E10F6	NM_001134381.1	erated_low_confidence(0.:
Y5,D6RDG2,D6RC61,D6	UPI000013EF70		
	UPI000017DA69	NM_005995.4	
	UPI00000709E1	NM_080390.3	tolerated(0.24)
	UPI0000181BA17	NM_003198.2	tolerated(0.95)
	UPI000013E374	NM_006706.3	
	UPI0000167BDB		
	UPI00001642306	NM_153046.2	
G3CAS6,B7ZMH4	UPI0000211B6A	01163279.1,NM_001163278.1	
G8BLJ6,G3CAS7	UPI00001C48FC2	NM_001122679.1	
	UPI0000137364		
K9JJH7	UPI0000DD79F5	_144993.1,NM_001287491.1	
	UPI0000DAC9CA		
29NX99,J3QKY0,J3KRY2	UPI00001AE7BC	01288732.1,NM_001288733.1	
	UPI0000070D41	NM_152325.1	
E5KTM5	UPI000003B01A	NM_016020.3	
	UPI0000212570	NM_016521.2	tolerated(0.58)
G5E9B5	UPI000006CFD4	NM_013342.3	
E9PAW7	UPI000049D997	_001195683.1,NM_003243.4	



VEP annotated somatic variants

	UPI0000074793		tolerated(0.25)
	UPI0000049F68	NM_052955.2	
Q6MZL6,Q5RI53	UPI0000231C7F	NM_003247.2	
	UPI000006E5C6	NM_016585.4	
	UPI00006C0B74	NM_015204.2	
G3V5B9	UPI000000CC0F		
D6W593	UPI0000D6DA73	NM_025264.4	
C9JMB5	UPI000013DE6F	NM_003253.2	
F5H6W6,F5H6R0,F5H1M:	UPI00004DF8BE		
	UPI000000D72E	NM_182919.3	
A8K1K8	UPI0000073827	NM_014177.2	
B3KPZ8	UPI0001AE759A	NM_001258028.1	
B3KPZ8	UPI0001AE759A	NM_001258028.1	
K7ELX5	UPI000006DF3D	NM_138463.3	
H0YNT2	UPI000013703A	NM_001282979.1	
H0YNT2	UPI000013703A	NM_001282979.1	
373,J3QQN4,J3QLK5,J3P	UPI00001B6B0F	NM_006852.3	
D6RCE0	UPI0000072EED	NM_012464.4	tolerated(0.11)
	UPI0000073AEE	NM_012465.3	
	UPI0000073AEE	NM_012465.3	
	UPI0000073AEE	NM_012465.3	
	UPI00001FE5FC		
	UPI0000137060	NM_016170.4	
	UPI0000039E20	NM_144676.3	tolerated(0.93)
C9J6W0	UPI00006C0498	NM_015348.1	
	UPI000045760C	NM_018295.4	tolerated(0.16)
D6RDW6	UPI000020B0D7		
	UPI0001AE6FF9	NM_032508.2	
J3QT25	UPI0001915109		
	UPI00001D79BC	NM_001004313.1	
	UPI0000457217		
Q5VXQ8,Q5PY18,D3TTZ	UPI000000D92D	507.1,NM_001270508.1,NM_006290.3	
Q52M88	UPI0000048FDE	NM_001244.3	
H7C3U5,C9J9K1	UPI00016632FD	NM_001080495.2	
	UPI000013CE0F	NM_032865.5	
	UPI000013CE0F	NM_032865.5	tolerated(0.9)
B3KVT9	UPI0000D720ED	01141980.1,NM_001141	tolerated(1)
B3KVT9	UPI0000D720ED	01141980.1,NM_001141	tolerated(1)
B3KVT9	UPI0000D720ED	01141980.1,NM_001141979.1	
	UPI0000201C11	049.1,NM_015476.3,NM_001271950.1	
7EPV9,K7EMU5,K7ELP(	UPI000002B5B9		
Q4L233	UPI0000130FB2	NM_007030.2	
Q4L233	UPI0000130FB2	NM_007030.2	
C9JDW1	UPI00001C08BF	NM_198485.3	
	UPI0000052E20	NM_024108.2	
G3V4C3,B0AZV9	UPI000000CC28	NM_001079537.1	
G3V4C3,B0AZV9	UPI000000CC28	NM_001079537.1	
	UPI0000052952	NM_033502.2	deleterious(0.04)
	UPI000006F0D9		
Q5SRL0	UPI0000137066	NM_033229.2	
Q9NZT8	UPI0000000DCE	NM_006510.4	
F5GYK0	UPI000022B316	01282378.1,NM_001256601.1	
	UPI000004E050	NM_018207.2	
	UPI0000418F23		tolerated(1)
	UPI000006D630	NM_015163.5	

VEP annotated somatic variants

	UPI000006D630	NM_015163.5	
	UPI000034ECE6	NM_007118.2	
Q71V88	UPI00000012CD	NM_003302.2	tolerated(0.09)
2Y6,K7EJX9,B4E3A3,B4I	UPI0000000A02		
	UPI0000070468	NM_024917.5	
	UPI000004FADD		
H0YKU7	UPI0001DBB3A9	NM_001252020.1	
	UPI000003B069	NM_014555.3	tolerated(0.06)
	UPI0000071CBA	NM_017672.4	
F5H6Q4	UPI000003BB44	NM_001177431.1	
	UPI000013773E	426.1,NM_001162427.1,N	tolerated(0.48)
	UPI000013773E	426.1,NM_001162427.1,NM_000368.4	
	UPI000013C781	NM_000548.3	
	UPI0000038C95	NM_005727.3	
Q7Z2J5,Q7Z2I5,Q7Z2E9	UPI0000049052	3,NM_001278741.1,NM_	deleterious(0)
A0ZT99	UPI000013683C	NM_004615.3	
	UPI000004FD58	NM_053006.4	
	UPI000041512B	NM_032538.1	
	UPI000041512B	NM_032538.1	
	UPI00001AEF7A	NM_145170.3	
	UPI0000042226	_001271420.1,NM_017775.3	
	UPI00003E58F8	NM_001145418.1	deleterious(0)
	UPI0001B79116	NM_001200049.2	
	UPI0001B79116	NM_001200049.2	
	UPI0001B79116	NM_001200049.2	
	UPI0001B79116	NM_001200049.2	
	UPI0001B79116	NM_001200049.2	
	UPI00001377A7	NM_012263.4	
D3DTW0,C9JMG1	UPI00017BCE80	NM_001130918.1	
Q9H4D2	UPI000013EA27	NM_003320.4	
	UPI000012B2EE	NM_052903.4	
	UPI000013CC55		
	UPI000013CD76	NM_020245.4	
	UPI000013CD76	NM_020245.4	
	UPI000006E2264		
	UPI000155D5D9		
	UPI0000137941	NM_018961.3	
	UPI0000047471	NM_032873.4	
	UPI000020E72A	NM_014671.2	
Q96HY5	UPI000021276F	NM_020765.2	
	UPI000013F1FC	NM_001077619.1	
F5H3N5	UPI000003021D	NM_003356.3	
	UPI000006E524	NM_152896.2	
B3KSE5	UPI0000E8267C	NM_017886.2	
Q6L9N9	UPI0000D6254B	NM_173568.3	
Q6L9N9	UPI0000D6254B	NM_173568.3	tolerated(1)
Q6L9N9	UPI0000D6254B	NM_173568.3	
	UPI0000074455	NM_173167.2	
D6RA68	UPI0001AE676E	NM_001193388.3	
	UPI0000126B4C	NM_016327.2	
A4QPH4	UPI000004B62E	NM_145052.3	
E9PSD7,A8KAF9	UPI000034E5B6	NM_206933.2	
M0R3B1,M0R172	UPI000006F7A8	NM_031941.3	

VEP annotated somatic variants

Q6P2I0	UPI00001379EB	NM_005153.2	
35JXD3,G5E9A6,B4DGK:	UPI0000161434	NM_004651.3	
Q53Y90	UPI000003772C	NM_017414.3	
Q9UQN9	UPI000013D050		
39NSJ7,K7ESK0,K7ERX(	UPI00001C1FC6	NM_015276.1	
	UPI0000410E09	NM_014709.3	
D6RF65,B4DU75	UPI000020CADC	NM_032175.2	
	UPI00001FB38B	NM_014503.2	
	UPI00001FB38B	NM_014503.2	
I08,Q86UB8,Q590G7,F4M	UPI00001B3DBF	_001258267.1,NM_007125.4	
	UPI00000012EB	NM_003380.3	
Q71V81	UPI0000055A9A	NM_003382.4	tolerated(0.58)
	UPI000013D498	NM_001288837.1	
	UPI0000070723	NM_006370.2	
C9K060	UPI0000423E27	NM_001202560.2	
C9K060	UPI0000423E27	NM_001202560.2	
	UPI000013E466	NM_152559.2	terious_low_confidence(C
Q6PIM1	UPI000176ADB8	NM_020945.1	
34R3Z0,Q9NWV7,Q659C	UPI0000138ED1	NM_018117.11	
34R3Z0,Q9NWV7,Q659C	UPI0000138ED1	NM_018117.11	
34R3Z0,Q9NWV7,Q659C	UPI0000138ED1	NM_018117.11	
34R3Z0,Q9NWV7,Q659C	UPI0000138ED1	NM_018117.11	
34R3Z0,Q9NWV7,Q659C	UPI0000138ED1	NM_018117.11	
Q0QD35,E7EP77	UPI000019C575		
C9JCS7	UPI0000203FB7	_001115113.2,NM_025160.6	
C9JH61,C9JEE7,C9IZK7	UPI00001C1DCD	NM_015131.1	
F8W7Y5,C9JC24	UPI000006FF8C	NM_020839.2	
H7C1E8,A4D230	UPI000020E761	NM_018051.4	
B4DXE9	UPI0001662BC1	NM_031951.3	
	UPI000006F2DE	NM_014149.3	
	UPI0000073E34	299.1,NM_001033518.1,NM_015610.3	
Q96CZ6	UPI000013CD65	NM_018979.3	tolerated(0.16)
Q5TEH9,Q5TEH8	UPI0000138F23	NM_024494.2	
	UPI000013D6C5	NM_003393.3	tolerated(0.39)
	UPI000004A506	NM_020135.2	
B4DPV6,B4DFS1	UPI0000031565	NM_018639.4	
	UPI00017A7149		
33BRX8,H3BPJ8,B4DHF(	UPI000006CD16	_001270454.1,NM_007014.4	
Q68CN2,F5H315	UPI0000001BDE	NM_020196.2	
Q9NW55	UPI000006F5DC	NM_018053.2	
Q5T6H7,Q5T6H2,B4E2P.	UPI00003D2EAD		
B7ZBB4	UPI00000401E0	NM_022098.3	
E2QRM3	UPI000006CC97	NM_020750.2	
M4WFF9	UPI000013D351		
M4WFF9	UPI000013D351		
	UPI000006E761	NM_015982.3	
A3KFK2,A3KFK1	UPI0001AE792F	NM_001198903.1	
A3KFK2,A3KFK1	UPI0001AE792F	NM_001198903.1	
Q658W5	UPI00000728EE	NM_020861.1	
B7ZW40	UPI000020E358	NM_001013623.2	
	UPI00002377F7		
	UPI00002377F7		
	UPI00002377F7		
	UPI0000160D96	NM_015117.2	
	UPI000002B2AD	NM_017590.5	

VEP annotated somatic variants

B4DNL2,B1AMU5	UPI0000072244	NM_001143978.2	
	UPI0000073C8D	NM_198046.1	tolerated(0.35)
	UPI00000373E8	NM_022494.1	
H3BNQ9,H3BMI0	UPI000013EA61	NM_001145548.1	
	UPI000013FDD5	NM_182491.2	
G3V3N5,C9JSX6	UPI000198D01B	NM_033400.2	
PQ0,F5H542,E7ET52,E5I	UPI000057A0B4	NM_012082.3	
H3BUW6	UPI0000E5924A	NM_001077268.1	
Q75MV2,J7M2L3,J7M2K9	UPI000013C3AC	NM_014569.3	
C9JUQ8	UPI0000126A0E	NM_015896.2	
C9JUQ8	UPI0000126A0E	NM_015896.2	
H7BZT5,B3KPM4	UPI0001D27F7E	NM_001178106.1	
A6NFS0	UPI000059DBB5	NM_001080485.3	
M0QZ59	UPI000013CAB8	NM_020657.2	tolerated(0.46)
F5H1K2	UPI000013C359		
C9J1G1	UPI00002323B9	NM_199451.2	
	UPI000059D659	NM_001146175.1	
◊7ERS3,K7EQC9,K7ELF6	UPI000007049F	NM_144689.3	
◊0R258,M0R0H8,M0R0E:	UPI0000139CDC		
J3KQM6	UPI000059D677	NM_152355.2	
Q7Z3P1	UPI000013F1DE	NM_152695.5	
	UPI000022ABBF	NM_001076678.2	
	UPI000013A290		
	UPI000013E5FC		tolerated(0.38)
H3BQQ2	UPI0001AE67A3		
M0QYG4	UPI0000202ADA	NM_025040.3	tolerated(0.68)
M0QY39,I0CMK8	UPI000035E843	NM_001076675.2	
	UPI00002376EC	NM_001001411.2	tolerated(0.42)
Q8N508	UPI0000DD78D7	NM_001080470.1	
M0R1G3,M0QYN4	UPI000041F9DE	NM_021269.2	tolerated(0.45)
KB3,C9JVC3,C9JSV9,C9	UPI000176161D	NM_001128223.1	
	UPI000022DD3A	NM_007131.3	
	UPI0000074535	NM_152458.6	deleterious(0.01)
I3L0H5	UPI0000251D78	NM_001031665.2	
H0YKY1,B3KWS2	UPI0001596890		
	UPI0000351AA0	NM_207341.2	tolerated(0.09)
6Y9,F5H789,F5H2D8,F5H	UPI000021D4BC	NM_181877.3	
Q9HA55	UPI00001C2005	NM_023072.2	
	UPI00004569F7	NM_015113.3	

VEP annotated somatic variants

PolyPhen	EXON	INTRON	DOMAINS
		2/4	
		5/5	
		5/22	
	9/40 33/33		lices:TMhelix,hmmpanther:PTHR19229:SF120,hmr
		3/38	
		20/38	
		13/38	
	28/31		:PTHR24223,Gene3D:3.40.50.300,TIGRFAM_dom
		14/30	
	31/39 1/9		'ROSITE_profiles:PS50929,hmmpanther:PTHR242
		21/22	
possibly_damaging(0.691)	1/1		Low_complexity_(Seg):seq
		9/10	
		1/11	
		10/10	
		7/7	
	1/6		
		6/10	
		3/5	
		8/13	
		3/10	
		1/12	
		6/10	
possibly_damaging(0.839)	20/23		panther:PTHR11905,hmmpanther:PTHR11905:SF
		10/18	
probably_damaging(0.934)	19/22		ofiles:PS50092,hmmpanther:PTHR13723,hmmpan
		15/21	
		4/38	
		5/8	
		9/24	
		16/28	
		2/2	
	7/19		4,hmmpanther:PTHR14338,Gene3D:2.30.29.30,Pf
		16/20	
		8/20	
		3/17	
		2/16	
	4/4		1,PROSITE_profiles:PS50262,hmmpanther:PTHR2
		17/26	
		1/2	
	1/6		lices:TMhelix,Pfam_domain:PF04750,hmmpanther
		12/18	
		11/18	
benign(0.05)	3/6		hmmpanther:PTHR11242,hmmpanther:P
	5/14		nmpanther:PTHR24102:SF15,Pfam_domain:PF013
		7/13	
		30/49	
		14/49	
		9/9	
		8/14	

VEP annotated somatic variants

		3/16	
		11/12	
		10/13	
	1/14		
		9/13	
		7/9	
		6/9	
	35/48		hmmpanther:PTHR12827
		4/42	
		14/22	
		2/7	
		12/12	
possibly_damaging(0.494)	16/16		hmmpanther:PTHR24147:SF22,hmmpant
		21/33	
		18/27	
	10/14		hmmpanther:PTHR24161,hmmpanther:P
		5/27	
		6/11	
		22/34	
	1/1		
		12/22	
		11/23	
		6/20	
probably_damaging(1)	9/21		:PTHR22780,Gene3D:1.25.10.10,Pfam_domain:PF
		2/14	
		5/8	
probably_damaging(0.968)	1/4		RSF017529,Prints_domain:PR02025,hmmpanther:
	1/4		
		2/4	
benign(0.288)	12/20		hmmpanther:PTHR11533:SF31,hmmpant
		2/4	
benign(0.015)	21/23		hmmpanther:PTHR12552,hmmpanther:P
		3/46	
		8/11	
	16/23		ofiles:PS50238,hmmpanther:PTHR14166,hmmpan
		15/40	
		3/14	
benign(0.086)	11/13		IR22825:SF12,hmmpanther:PTHR22825,Gene3D:2
	6/20		Gene3D:2.30.30.40,hmmpanther:PTHR22826:SF94
		4/6	
	6/6		,hmmpanther:PTHR11711,hmmpanther:PTHR117
		11/22	
	1/2		
benign(0)	2/2		hmmpanther:PTHR15712:SF21,hmmpant
		2/2	
		10/14	hmmpanther:PTHR15712:SF21,hmmpant
		2/7	
		1/7	
possibly_damaging(0.886)	3/8		main:PF00884,hmmpanther:PTHR10342,hmmpant
		8/19	
		1/5	
		6/10	
		1/4	

VEP annotated somatic variants

1/6

1/8  
12/16  
5/8  
6/8  
15/21  
7/11  
11/12  
2/10  
5/13

30/30

11/29

16/23

omain:PF00122,hmmpanther:PTHR24093,hmmpar  
mpanther:PTHR24093:SF229,Superfamily\_domai  
20/21  
11/26  
9/9  
13/22  
1/27  
13/27  
24/27  
9/12  
16/23  
6/6  
6/7

benign(0)

16/26

hmmpanther:PTHR23052

10/10

benign(0.003)

3/3

hmmpanther:PTHR11214,hmmpanther:P  
5/14  
15/33

benign(0.003)

3/3

ain:PF00118,hmmpanther:PTHR11353,hmmpanth  
1/9

1/5  
11/11  
4/8  
8/9  
4/16

benign(0.004)

1/2

hmmpanther:PTHR11848,hmmpanther:P  
1/4  
14/15  
19/27  
18/23  
17/23  
14/23  
8/27  
13/15

9/42

?,PROSITE\_profiles:PS50294,hmmpanther:PTHR1

10/10  
1/8  
4/8  
15/15

possibly\_damaging(0.736)

11/16

hmmpanther:PTHR23231,hmmpanther:P  
3/8  
1/1

11/11

rofiles:PS50188,hmmpanther:PTHR24100,hmmpa  
24/31

VEP annotated somatic variants

	3/3		
		3/8	
		8/8	
benign(0.002)	2/5		hmmpanther:PTHR13481
		10/67	
	2/2		Pfam_domain:PF15047
		8/15	
	10/10		
benign(0.089)	9/9		
	1/4		
benign(0.003)	2/2		hmmpanther:PTHR23033, hmmpanther:P
	11/22		Pfam_domain:PF15020
		5/7	
		8/19	
		8/14	
		4/4	
	5/5		
		1/3	
		19/40	
		3/10	
		26/40	
		30/40	
	1/6		
		6/17	
		7/8	
probably_damaging(0.972)	6/7		ofiles:PS51144, hmmpanther:PTHR18952, hmmpan
	17/37		hmmpanther:PTHR15502, hmmpanther:P
		40/46	
		15/46	
		19/48	
		11/38	
		38/38	
		3/13	
		13/13	
		8/14	
	1/9		
	11/11		
		7/18	
		4/10	
	8/19		1971, hmmpanther:PTHR21595, hmmpanther:PTHR
		11/22	
		2/19	
		3/4	
		8/20	
		6/10	
	7/7		
		2/10	
		18/20	
		11/28	
	1/2		hm_domain:PF01146, hmmpanther:PTHR10844, hm
	7/9		ad-coils_(Ncoils):Coil, hmmpanther:PTHR13140, hm
		7/9	
probably_damaging(0.959)	3/7		Pfam_domain:PF03148



VEP annotated somatic variants

Variant	Count	Annotations
	4/7	
	11/11	
	28/28	
benign(0.033)	4/18	led-coils_(Ncoils):Coil,hmmpanther:PTHR32083,hrr
	13/24	ed-coils_(Ncoils):Coil,hmmpanther:PTHR13140:SF:
		6/15
		23/28
	3/15	iled-coils_(Ncoils):Coil,hmmpanther:PTHR23161,hr
		1/8
		3/14
		1/3
		2/2
benign(0.014)	21/33	hmmpanther:PTHR11412,hmmpanther:P
	4/6	i,PROSITE_profiles:PS50835,hmmpanther:PTHR2:
		7/8
		6/6
benign(0)	3/3	_complexity_(Seg):seg,hmmpanther:PTHR15484:§
		5/12
	3/4	5343,hmmpanther:PTHR15343:SF0,Low_complexit
		16/36
		19/19
benign(0.002)	6/9	hmmpanther:PTHR14477,hmmpanther:P
		5/14
		11/12
		1/6
		7/11
	12/16	RFAM_domain:TIGR00089,Gene3D:2qgqB01,TIGR
		21/21
		1/12
		1/1
	1/2	
		1/6
		2/6
		7/9
		11/17
benign(0.006)	7/18	hmmpanther:PTHR22880,hmmpanther:PT
		7/7
	1/1	_complexity_(Seg):seg,hmmpanther:PTHR22146,r
		5/20
benign(0.007)	1/3	Gene3D:1.10.20.10,Pfam_domain:PF15510,Superf
		11/34
		24/34
		1/14
		3/14
benign(0.001)	6/18	hmmpanther:PTHR14594:SF1,hmmpantl
		6/19
		8/12
		9/11
benign(0)	9/22	files:PS50923,hmmpanther:PTHR19325,hmmpantl
	27/27	TIGRFAM_domain:TIGR012
	3/5	
	1/23	
		4/17

VEP annotated somatic variants

Annotation	Count	Details
possibly_damaging(0.87)	8/13 11/11 1/1	5/17 ,hmmpanther:PTHR11177,hmmpanther:PTHR1117
benign(0.001)	5/5 5/5 6/6 1/6 6/6	13/19 Prints_domain:PR02040,hmmpanther 45/47 am_domain:PF04487,hmmpanther:PTHR17045,hrr 10/10 14/22 12/19
	34/49 2/2	3/5 4/24 12/15 17/21 7/10 hmmpanther:PTHR13162:SF8,hmmpantl 4/6 panther:PTHR22750,hmmpanther:PTHR22750:SF1 13/23 20/23 19/23 36/43
benign(0.036)	12/13 14/14 4/6	am_domain:PF02205,hmmpanther:PTHR21557,hrr 11/18 10/21 47/55 11/28 22/59 18/59 27/44 56/66 20/34 5/43 panther:PTHR10509:SF2,Pfam_domain:PF01596, 2/3 12/18 2/11
benign(0.001)	10/10 18/20 8/8 1/4 3/5	Low_complexity_(Seg):seg,Transmembran 6/12 4/12 2/16 3/16 Pfam_domain:PF08562,hmmpanther:PTHR10334,h 12/14 8/14 8/18 9/13

VEP annotated somatic variants

	4/10	hmmpanther:PTHR15036,hmmpanther:P
		1/11
	31/50	Low_complexity_(Seg):seg
		3/17
	3/19	omain:PF01044,hmmpanther:PTHR18914,hmmpai
	15/67	omain:PF00431,PROSITE_profiles:PS01180,SMAI
		1/20
possibly_damaging(0.713)	24/26	Pfam_domain:PF00888,hmmpanther:PTHR22771:
		1/23
unknown(0)	18/24	THR14043:SF4,hmmpanther:PTHR14043,Gene3D:
		18/19
	20/20	
benign(0)	8/18	hmmpanther:PTHR12072:SF5,hmmpantl
	2/2	
		7/7
		3/8
		8/8
		7/8
		8/12
benign(0.021)	2/13	hmmpanther:PTHR24290,hmmpanther:P
		2/9
	2/20	nther:PTHR21493,hmmpanther:PTHR21493:SF87,
		2/15
		5/7
		3/12
	3/13	Pfam_domain:PF14939
		1/12
		13/28
	8/10	'_complexity_(Seg):seg,hmmpanther:PTHR23004:€
	1/8	
	4/6	s:PS00903,Gene3D:3.40.140.10,Pfam_domain:PF(
		11/26
		8/26
		7/7
		19/21
benign(0.014)	4/23	TE_profiles:PS50211,hmmpanther:PTHR10877,hm
		1/10
		5/9
		8/25
		3/5
		7/10
		4/26
		12/22
		21/22
		12/27
		19/37
	17/17	
	10/10	
		9/9
		1/3
		18/27
		1/18
		21/31
		1/5

VEP annotated somatic variants

		10/15
		14/20
		61/82
		29/58
		56/83
		53/83
		55/83
		71/83
		62/83
		2/80
		28/90
		64/68
		3/5
		3/5
		16/16
		38/51
		41/52
benign(0.05)	25/28	F_domain:PIRSF037123,hmmpanther:PTHR21451
	10/11	HR10443:SF17,hmmpanther:PTHR10443,Gene3D
		6/11
		6/7
		19/21
		5/6
		20/23
		15/23
		22/23
		10/32
		2/15
	15/15	hmmpanther:PTHR24025,hmmpanther:P
	1/15	site_(Signalp):SignalP-noTM,hmmpanther:PTHR24
		2/23
	14/83	
	2/2	
	2/9	
	1/5	
benign(0.001)	5/12	ains:SM00678,Pfam_domain:PF02825,hmmpanther
	2/2	
	2/3	anther:PTHR10159:SF45,Gene3D:3.40.250.10,PIR:
		8/16
		82/89
benign(0.001)	1/10	
	2/5	hmmpanther:PTHR14207:SF0,hmmpantf
benign(0.093)	9/19	349,hmmpanther:PTHR11733,hmmpanther:PTHR1
		8/17
		13/24
		2/20
		2/19
		2/4
		4/7
		18/28
		3/7
		1/3
		10/24
		5/11
		8/19

VEP annotated somatic variants

	1/13	hmmpanther:PTHR12086:SF10,hmmpanther:3/19 12/27
	2/12	R23115,hmmpanther:PTHR23115:SF94,Gene3D:3
	9/9	complexity_(Seg):seg,hmmpanther:PTHR11849,hn
	3/3	48,hmmpanther:PTHR24367,Pfam_domain:PF138
	3/3	hmmpanther:PTHR24367:SF248,hmmpan
	3/3	as:TMhelix,PROSITE_profiles:PS50847,hmmpanth
		19/32
		6/7
benign(0.008)	10/23	hmmpanther:PTHR21573,hmmpanther:PTHR21573:SF
		10/10
		8/10
benign(0)	16/23	PTHR13720,hmmpanther:PTHR13720:SF22,Pfam_d
		8/22
		8/22
	1/2	hmmpanther:PTHR24341,hmmpanther:P
		13/14
		5/16
		1/9
		3/52
		11/19
benign(0)	4/9	21661:SF10,Gene3D:3.40.50.1820,Pfam_domain:F
	13/19	8,hmmpanther:PTHR10992,Pfam_domain:PF0056
		7/21
		10/30
possibly_damaging(0.669)	18/23	hmmpanther:PTHR10774,hmmpanther:PTHR10774:SF27,
probably_damaging(1)	6/12	620,Pfam_domain:PF01012,PIRSF_domain:PIRSF
probably_damaging(0.926)	4/5	domain:PF01012,hmmpanther:PTHR21294,SMART
	1/7	
		12/17
		2/18
		7/18
		9/21
	22/22	hmmpanther:PTHR23169,hmmpanther:P
		3/8
benign(0.002)	13/16	hmmpanther:PTHR11081,hmmpanther:P
		18/18
		3/13
benign(0)	14/26	hmmpanther:PTHR10127:SF50,hmmpanther:PTHR1012
		7/25
benign(0.217)	8/8	3,PROSITE_profiles:PS50240,hmmpanther:PTHR2
		1/10
		5/11
		5/11
		5/14
probably_damaging(0.987)	7/10	Pfam_domain:PF13289
		2/6
		2/6
	1/1	
	1/1	
		4/19
	3/4	elicites:TMhelix,hmmpanther:PTHR13674:SF3,hmm
		2/7

VEP annotated somatic variants

	1/1	
		12/17
		7/7
		2/11
	1/30	
		4/10
benign(0.014)	21/23	superfamily_domains:SSF48371, Gene3D:1.25.10.10, I
	5/10	iled-coils_(Ncoils):Coil, hmmpanther:PTHR22420, hr
		9/42
		1/9
		2/9
	2/10	hmmpanther:PTHR32094
	12/12	
		10/26
		17/26
	22/43	panther:PTHR11712, hmmpanther:PTHR11712:SF227
		22/42
		20/42
possibly_damaging(0.723)	2/18	hmmpanther:PTHR24048, hmmpanther:P
benign(0.158)	47/64	36, PROSITE_profiles:PS50026, hmmpanther:PTHR
		3/16
	3/3	
		10/10
		4/10
		4/5
		5/10
		4/8
		4/7
possibly_damaging(0.742)	16/29	hmmpanther:PTHR23065, hmmpanther:P
	9/18	3F000628, hmmpanther:PTHR24416, hmmpanther:F
	9/9	
		10/24
	17/25	3213:SF213, hmmpanther:PTHR23213, Pfam_dom
		10/24
		2/2
		11/17
	6/9	i, hmmpanther:PTHR10516:SF10, Low_complexity_(
		1/3
possibly_damaging(0.779)	9/48	files:PS50194, hmmpanther:PTHR11915, hmmpantf
		11/46
		21/29
		13/17
		9/17
	4/9	in:PIRSF000332, Prints_domain:PR00370, hmmpar
	1/17	panther:PTHR23213, hmmpanther:PTHR23213:SF
		2/16
		18/22
	11/23	hmmpanther:PTHR23197:SF8, hmmpantl
	2/2	hmmpanther:PTHR25042, hmmpanther:P
		3/16
	15/15	
	17/74	HR11878, Gene3D:2.10.220.10, SMART_domains:SI
		53/73

VEP annotated somatic variants

	56/74	hmmpanther:PTHR11878,Pfam_domain:PF03160,SMART
		16/73
		57/73
	1/8	hmmpanther:PTHR11878,hmmpanther:PTHR11878
		20/24
		5/11
		12/15
	18/19	hmmpanther:PTHR10288:SF100,hmmpanther:PTHR10288
		3/3
	3/3	
		2/5
		8/17
		14/14
		15/27
		4/27
		14/16
		4/7
		7/11
possibly_damaging(0.889)	15/16	SMART_profiles:PS50231,hmmpanther:PTHR11675,hmmpanther:PTHR11675
benign(0)	1/11	hmmpanther:PTHR11675,hmmpanther:PTHR11675
benign(0.067)	9/11	hmmpanther:PTHR11675:SF13,Gene3D:2.80.10.50,SMART_profiles:PS50231,hmmpanther:PTHR11675
	4/6	hmmpanther:PTHR14454,hmmpanther:PTHR14454
benign(0.001)	4/6	hmmpanther:PTHR14454,hmmpanther:PTHR14454
	6/6	
	1/28	
		2/11
		11/11
	7/12	SMART_profiles:PS51715,hmmpanther:PTHR12011
	12/14	hmmpanther:PTHR12011:SF245,hmmpanther:PTHR12011
		1/2
		10/14
		3/5
		1/1
		3/9
		11/17
		1/14
unknown(0)	3/4	hmmpanther:PTHR22979,hmmpanther:PTHR22979:SF13
unknown(0)	3/4	hmmpanther:PTHR22979,hmmpanther:PTHR22979:SF13
benign(0.015)	9/9	SMART_domain:PF03321,hmmpanther:PTHR31901,hmmpanther:PTHR31901
		3/7
benign(0.015)	4/7	hmmpanther:PTHR12914:SF2,hmmpanther:PTHR12914:SF2
	19/27	SMART_profiles:PS51289,hmmpanther:PTHR11884,hmmpanther:PTHR11884
		16/26
		7/7
	1/6	
benign(0.002)	3/9	SMART_profiles:PS50231,hmmpanther:PTHR18945,SMART_profiles:PS50231
		4/8
		10/10
		3/5
		8/13
	2/3	SMART_profiles:PS50231,hmmpanther:PTHR18945,SMART_profiles:PS50231
benign(0)	3/8	SMART_profiles:PS50231,hmmpanther:PTHR18945,SMART_profiles:PS50231
	1/3	SMART_profiles:PS50262,hmmpanther:PTHR22979
	15/24	(Seg):seg,Coiled-coils_(Ncoils):Coil,hmmpanther:PTHR22979

VEP annotated somatic variants

	2/2	
	7/9	hmpanther:PTHR10822:SF26,hmmpanther:PTHR10/24
		6/7
probably_damaging(0.923)	1/14	hmmpanther:PTHR21231,hmmpanther:P
benign(0)	1/1	21,Pfam_domain:PF00001,Gene3D:1.20.1070.10,I
	3/16	
	2/7	
		3/6
		5/6
		1/2
	13/20	hmmpanther:PTHR23319,hmmpanther:P
		6/17
		11/18
		16/18
		9/18
		20/32
		5/15
		2/15
	8/10	as:TMhelix,PROSITE_profiles:PS50259,hmmpanth
		2/15
benign(0.404)	13/17	,hmmpanther:PTHR11977,hmmpanther:PTHR1197
	1/1	
		6/6
		1/8
		11/16
	17/17	
		15/19
	7/7	
		9/20
		2/3
		4/25
		20/25
		24/24
		4/5
	4/5	8901:SF10,Pfam_domain:PF13419,TIGRFAM_dor
		37/44
		17/44
	15/45	anther:PTHR13457,hmmpanther:PTHR13457:SF1,;
benign(0.006)	9/13	HR16216:SF2,hmmpanther:PTHR16216,Gene3D:1
		13/42
		2/42
		11/21
		1/21
		9/10
		3/77
probably_damaging(0.974)	2/6	nain:PF00129,hmmpanther:PTHR16675,hmmpantl
	8/18	am_domain:PF00051,Gene3D:2.40.20.10,PIRSF_c
		4/11
		7/8
	1/3	BSITE_profiles:PS51503,hmmpanther:PTHR12297,I
		2/2
	1/1	
		1/1





VEP annotated somatic variants

		23/29	
		16/29	
		13/27	
		16/27	
		11/23	
	4/24	TE_profiles:PS51468,hmmpanther:PTHR10338,hm	
		20/23	
		4/5	
		2/7	
		5/56	
		49/56	
		16/58	
	3/3	hmmpanther:PTHR10656:SF8,hmmpantl	
		33/39	
		30/39	
442.1		4/10	
		4/10	
		14/23	
		2/17	
		6/17	
	7/18		hmmpanther:PTHR10694
	1/1		
	16/16		
		9/9	
	3/10	hmmpanther:PTHR24168,hmmpanther:P	
	9/10	hmmpanther:PTHR24168,hmmpanther:PTHR24168	
	3/11	MAP:MF_03023,hmmpanther:PTHR23074,hmm	
benign(0)	2/2	_(Seg):seg,hmmpanther:PTHR11537:SF19,hmmpa	
		10/13	
		3/26	
		11/39	
		2/6	
	2/2		
		16/23	
		11/21	
		14/22	
		3/26	
benign(0.008)	17/29	hmmpanther:PTHR14017:SF9,hmmpantl	
		7/19	
	12/20	hmmpanther:PTHR23123,hmmpanther:P	
benign(0.001)	15/20	hmmpanther:PTHR23123,hmmpanther:P	
	1/10		
		10/85	
benign(0.001)	12/34	eg):seg,SMART_domains:SM00222,hmmpanther:l	
		15/23	
	4/4	_profiles:PS50096,hmmpanther:PTHR22590,hmm	
		1/3	
		5/29	
	2/15	ROSITE_profiles:PS50067,hmmpanther:PTHR241	
		5/19	
		8/49	
		14/22	
		23/32	
		8/19	
		8/12	

VEP annotated somatic variants

	3/4	hmmpanther:PTHR23223,hmmpanther:P
	2/15	_domain:PIRSF037037,hmmpanther:PTHR24412:5
		7/9
		3/4
		56/58
		17/29
		47/63
	7/10	.profiles:PS50176,hmmpanther:PTHR23316,hmmp
		11/21
		5/9
		7/7
		3/6
	7/7	
	1/1	
	1/1	
	1/1	hmmpanther:PTHR23262,hmmpanther:P
		10/16
		32/64
		2/64
		9/38
		8/38
		19/27
		4/27
		23/27
	1/23	
	4/8	hmmpanther:PTHR24356,hmmpanther:PT
	1/1	
		6/6
		4/4
		4/12
		4/7
		4/7
		9/15
benign(0.001)	1/1	er:PTHR24371,Gene3D:2.60.40.10,Pfam_domain:F
		13/16
		10/26
		12/17
		1/11
	1/11	
		3/10
		2/6
		7/10
		13/20
		90/90
		11/22
probably_damaging(0.996)	5/6	20,hmmpanther:PTHR10529,hmmpanther:PTHR10
		5/5
		2/7
		2/3
benign(0.082)	1/2	
	19/19	
		21/26
benign(0.013)	3/14	hmmpanther:PTHR11089,hmmpanther:P
benign(0.077)	5/10	hmmpanther:PTHR13586,hmmpanther:P
	4/4	

VEP annotated somatic variants

		12/21	
		23/29	
		8/11	
		2/4	
	1/3		
	1/4		
		11/18	
		2/4	
		2/2	
	3/3	SITE_profiles:PS50838,hmmpanther:PTHR11736,f	
	1/1		
		3/3	
	3/3	01454,PROSITE_profiles:PS50838,hmmpanther:P	
		2/12	
		19/26	
	5/5	hmmpanther:PTHR15275,hmmpanther:P	
		10/12	
	8/22	panther:PTHR11607:SF20,Gene3D:3.20.110.10,F	
benign(0)	6/19	omain:PF01074,hmmpanther:PTHR11607,hmmpar	
benign(0.002)	5/7	hmmpanther:PTHR13843	
possibly_damaging(0.687)	4/29	m_domain:PF13281,hmmpanther:PTHR11584,hmr	
		16/16	
	13/32	panther:PTHR24361:SF88,hmmpanther:PTHR2436	
		5/29	
		5/12	
		5/25	
	10/26	hmmpanther:PTHR24356,hmmpanther:PT	
	1/29		
benign(0.023)	4/11	mains:SM00327,Pfam_domain:PF00092,Gene3D:3	
		13/18	
		20/28	
	4/17	MART_domains:SM00409,hmmpanther:PTHR23282	
		93/101	
		93/101	
	3/3	F_domain:PIRSF038006,hmmpanther:PTHR15074	
		29/30	
	2/5		
		12/17	
benign(0.149)	3/4	Pfam_domain:PF11568	
		2/12	
		24/36	
		14/14	
	19/19		
		3/10	
	6/10	ain:PIRSF037755,Gene3D:3.40.50.150,Pfam_dorr	
		7/10	
	12/16	panther:PTHR15075:SF4,hmmpanther:PTHR15	
		8/15	
	10/16	panther:PTHR15075:SF4,hmmpanther:PTHR15	
benign(0.089)	3/5	3155,Gene3D:3I00A01,Pfam_domain:PF02870,hm	
		8/31	
		16/31	
		12/31	
		6/9	

VEP annotated somatic variants

			2/31
			20/31
			2/4
			8/9
			2/11
			4/6
			1/2
benign(0.035)	4/5	093, Gene3D:1pi1A00, Pfam_domain:PF03637, hmm	7/16
benign(0)	12/17	hmmpanther:PTHR23336, hmmpanther:P	2/12
			2/5
			2/19
benign(0)	3/24		
benign(0)	10/24	panther:PTHR23120, hmmpanther:PTHR23120:SF9,:	
possibly_damaging(0.641)	7/24	panther:PTHR23120, hmmpanther:PTHR23120:SF9,:	
			3/4
			1/1
			2/5
			6/6
			2/20
			2/15
			3/5
	49/58	panther:PTHR11139:SF63, Pfam_domain:PF00454	
	29/33	o2kA01, TIGRFAM_domain:TIGR02082, Pfam_dom	
			32/32
			15/32
			29/32
			7/18
			59/83
	1/84		
	4/84		
			73/83
	42/49	hmmpanther:PTHR11339, hmmpanther:PT	
			8/9
	7/7	mmpanther:PTHR10489, hmmpanther:PTHR10489	
	3/3	s:PS51225, hmmpanther:PTHR17068:SF5, hmmpa	
			4/34
benign(0.419)	29/42	oils):Coil, Pfam_domain:PF01576, hmmpanther:PT	
			21/41
	12/40	456, hmmpanther:PTHR13140, hmmpanther:PTHR1	
			18/39
			29/39
			26/40
	19/34	mpanther:PTHR22964:SF44, Pfam_domain:PF0767	
			45/65
			18/43
			15/25
			25/27
			32/40
			12/39
	1/3		
	5/20		
		hmmpanther:PTHR19897	
			25/26
			12/19

VEP annotated somatic variants

		21/22
	2/5	hmmpanther:PTHR23228:SF7,hmmpantl
benign(0.038)	7/9	rain:PF00026,hmmpanther:PTHR13683,hmmpanth 3/6
possibly_damaging(0.67)	21/21	40/51 nmpanther:PTHR20930,hmmpanther:PTHR20930: 17/20 3/20 4/20
probably_damaging(0.999)	3/15	mpanther:PTHR22804:SF24,Pfam_domain:PF0766 5/31 28/34 14/17 9/15 42/45
	13/15	PF00346,hmmpanther:PTHR11993,hmmpanther:P 74/181 18/181 6/181
	8/11	hmmpanther:PTHR13328,Low_comple:
	4/4	hmmpanther:PTHR10281
benign(0.003)	9/13	3/3 coiled-coils_(Ncoils):Coil,hmmpanther:PTHR22964, 15/23 2/22 2/11
	1/1	Low_complexity_(Seg):seg,hmmpanthe 1/6 11/19 21/29 8/11
benign(0)	5/6	R12570,hmmpanther:PTHR12570:SF7,Pfam_dom 46/46 3/9 13/20
benign(0.002)	2/2	10.60,hmmpanther:PTHR24340,hmmpanther:PTHF 6/7 9/9 13/14
	11/15	,hmmpanther:PTHR24106,Gene3D:3.80.10.10,SM/ 2/14 5/8 11/14 5/25 15/17
	12/12	8/9
benign(0.001)	8/27	9384,hmmpanther:PTHR19384:SF66,Pfam_domair 15/26 27/33 16/33
probably_damaging(0.922)	20/20	hmmpanther:PTHR10796,hmmpanther:P
possibly_damaging(0.856)	4/4	1,PROSITE_patterns:PS00237,Pfam_domain:PF0C
	6/9	nain:PR00896,PROSITE_profiles:PS50262,hmmpa

VEP annotated somatic variants

Variant ID	Count	Annotations
	3/4	
1_001077482.2	1/8	
	5/23	12/13 hmmpanther:PTHR22884,hmmpanther:PT 14/18 13/13
benign(0.124)	4/6	HR12356:SF16,hmmpanther:PTHR12356,Pfam_d 5/9
	5/19	9331,hmmpanther:PTHR19331:SF254,Pfam_dom: 12/27 33/35
	1/8	
	8/8	
		8/11 11/11 16/16 13/16 2/19 15/15 15/15 15/15 5/7 4/5
	5/21	PTHR1990,hmmpanther:PTHR1990:SF1,Gene3D
	10/10	
		1/1
benign(0.094)	1/1	
	1/1	PROSITE_profiles:PS50262,hmmpanther:PTHR26451,PROSITE_profiles:PS50262,hmmpanther:PTHR26451
benign(0.15)	1/1	10,hmmpanther:PTHR26451,hmmpanther:PTHR26451
	1/1	r:PTHR26450:SF28,hmmpanther:PTHR26450,Pfam_domain:PR00245,PROSITE_profiles:PS50262,hmmpanther:PTHR26452,hmmpanther:PTHR26452,hmmpanther:PTHR26452,hmmpanther:PTHR26452
benign(0)	1/1	
	1/1	
	1/1	
	1/1	
	1/1	
	1/1	
	4/13	
	5/5	
	6/6	main:PF13738,hmmpanther:PTHR15192,hmmpanther:PTHR15192
		11/17 3/10
benign(0)	10/10	Low_complexity_(Seg):seg
	1/1	main:PR01066,PROSITE_profiles:PS50262,hmmpanther:PTHR24011,PROSITE_profiles:PS50262,hmmpanther:PTHR24011
possibly_damaging(0.794)	5/11	m_domain:PF13848,Gene3D:3.40.30.10,TIGRFAM
	5/16	PTHR24011,hmmpanther:PTHR24011:SF265,SMART
		10/23 3/4 2/8 3/6
benign(0.057)	1/7	Low_complexity_(Seg):seg,hmmpanther:PTHR12280,hmmpanther:PTHR12280
	13/19	12280,Pfam_domain:PF01937,PIRSF_domain:PIRSF01937
		19/21

VEP annotated somatic variants

benign(0.007)	2/2 6/13	.10,hmmpanther:PTHR12114,hmmpanther:PTHR1 10/13 4/11
unknown(0)	1/1	18/33
benign(0.23)	5/5	hmmpanther:PTHR24027:SF25,hmmpant 6/24
benign(0)	5/8	PTHR11579,Pfam_domain:PF01135,Gene3D:3.40.5 37/46
benign(0)	1/3	hmmpanther:PTHR12121,hmmpanther:P
	26/31 1/22	,Pfam_domain:PF00233,Gene3D:1.10.1300.10,SM :PTHR11347,hmmpanther:PTHR11347:SF23,Low_ 9/22
	23/23	nther:PTHR24416:SF53,hmmpanther:PTHR24416, 22/22 3/11 22/22
benign(0.01)	7/7	profiles:PS50011,hmmpanther:PTHR22972,hmmpar 4/23
	3/24 12/24	52,hmmpanther:PTHR24052:SF9,Low_complexity_ A03,hmmpanther:PTHR24052,hmmpanther:PTHR: main:PF00557,hmmpanther:PTHR10804,hmmpant
benign(0.029)	14/15 15/15	11/21 10/21 16/26 8/10
benign(0.027)	3/5 1/7	ains:SM00701,SMART_domains:SM00644,Gene3 6/21 39/39 9/31 20/23
	4/18 6/6	:PTHR15242,PROSITE_patterns:PS00518,Pfam_c 9/10
benign(0.007)	22/31 2/2	Pfam_domain:PF04987,hmmpanther: hmmpanther:PTHR20661,PIRSF_domai 17/18
51851.1		5/41
	2/6	PTHR22984,Pfam_domain:PF00069,Gene3D:3.30.: 2/20
	2/2 1/2	hmmpanther:PTHR15710,hmmpanther:P 50/66 10/13 2/11 11/13 15/57 21/31 9/31



VEP annotated somatic variants

		30/31	
benign(0)	23/32	49, Gene3D:3.20.20.190, Pfam_domain:PF00387, h	
		2/32	
		1/21	
		8/21	
unknown(0)	30/32	915, hmmpanther:PTHR11915:SF247, SMART_dom	
	5/32	l, PROSITE_profiles:PS50021, hmmpanther:PTHR1	
	32/32		
	32/32	l, hmmpanther:PTHR11915, hmmpanther:PTHR119	
	32/32	panther:PTHR11915, hmmpanther:PTHR11915:SF:	
	32/32	l, hmmpanther:PTHR11915, hmmpanther:PTHR119	
		8/21	
		22/28	
		14/28	
		28/28	
		12/15	
		6/12	
		11/13	
		8/36	
		2/11	
benign(0)	7/8	hmmpanther:PTHR12406, hmmpanther:P	
		8/8	
	19/34	ofiles:PS50042, hmmpanther:PTHR14226, hmmpan	
		1/2	
		2/7	
		2/8	
		8/8	
		11/22	
benign(0.001)	2/2	, Gene3D:1.10.260.40, Pfam_domain:PF00157, PRC	
benign(0)	1/7		
	7/7	04, Prints_domain:PR00398, hmmpanther:PTHR240	
		8/20	
	1/7	panther:PTHR13832, hmmpanther:PTHR13832:SF:	
		2/12	
		2/2	
	7/7		
		2/13	
		2/5	
		6/15	
		8/9	
		1/6	
		1/6	
		1/6	
		1/14	
		20/39	
		3/5	
	3/14		
		12/17	
		16/17	
		6/17	
		7/16	
possibly_damaging(0.852)	3/3		Low_complexity_(Seg):seq
		6/9	
		13/16	
		12/14	

VEP annotated somatic variants

		18/18
		2/5
		3/5
		5/5
		7/10
		6/6
	1/7	
		4/9
		16/20
		13/33
		1/29
		22/30
	16/23	PROSITE_profiles:PS50055,hmmpanther:PTHR19
		2/2
		19/21
		11/21
		21/21
		21/21
		1/2
	1/12	
		3/14
benign(0.003)	2/6	24073,hmmpanther:PTHR24073:SF137,Gene3D:3
	1/3	
		2/7
		5/18
	14/16	omain:PF00560,PROSITE_profiles:PS51450,Low_c
		2/5
		2/10
	10/15	01843,PROSITE_profiles:PS51126,hmmpanther:F
		15/16
		3/19
		18/24
		21/27
		3/7
probably_damaging(0.972)	1/6	hmmpanther:PTHR22738,hmmpanther:P
	21/24	iled-coils_(Ncoils):Coil,hmmpanther:PTHR13948:SF
		12/20
		14/20
		1/6
	13/21	hmmpanther:PTHR13487
		3/11
		6/19
	1/3	1,hmmpanther:PTHR21101:SF13,Low_complexity_
	1/2	
	13/13	
		12/12
		4/9
	1/19	
		14/17
	1/7	
	8/8	
		5/8
	1/9	
		1/7
	2/7	rofiles:PS50088,PROSITE_profiles:PS50297,hmmp

VEP annotated somatic variants

	5/5		8/8
			2/8
	3/3		14/30
			8/30
benign(0)	10/33	panther:PTHR22988:SF24,hmmpanther:PTHR2298	7/8
			11/42
			10/12
			30/33
			8/16
			2/9
			4/4
	1/5		
	1/5		
	2/10	hmmpanther:PTHR11363,Superfamily_do	
	5/7	ain:PIRSF002116,Pfam_domain:PF00900,hmmpa	
			14/21
			23/33
	22/34	hmmpanther:PTHR12848,Superfamily_do	
			2/15
	7/16	hmmpanther:PTHR13026,hmmpanther:PTHR13026:	
	4/9	IGRFAM_domain:TIGR00539,Gene3D:2qgqB01,Pf	
			2/7
benign(0.003)	3/9	hmmpanther:PTHR10994,hmmpanther:P	
			1/17
	18/18	THR22835:SF84,hmmpanther:PTHR22835,Pfam_c	
			9/9
	26/106	188,hmmpanther:PTHR13715,hmmpanther:PTHR	
			3/105
	39/106	hmmpanther:PTHR13715,hmmpanther:P	
			47/105
			9/104
			35/104
			2/103
			2/3
			6/20
			2/4
	40/41	mpanther:PTHR10807:SF43,Pfam_domain:PF0016	
			30/39
			6/10
	4/9	hmmpanther:PTHR10687,hmmpanther:P	
			6/10
			3/32
benign(0.001)	1/16	,hmmpanther:PTHR11977,hmmpanther:PTHR1197	
			12/20
			20/20
			10/27
benign(0)	19/27	mpanther:PTHR10037,hmmpanther:PTHR10037:S	

VEP annotated somatic variants

Variant	Count	Annotations
	26/26	
	8/44	
	5/8	
benign(0.156)	2/12	1,hmmpanther:PTHR23324,Gene3D:3.40.525.10,F
	12/25	
possibly_damaging(0.516)	13/20	F3,hmmpanther:PTHR11141,Pfam_domain:PF080:
	7/22	
	9/25	
	3/25	
benign(0.001)	4/26	10,hmmpanther:PTHR13923,hmmpanther:PTHR1:
	14/25	
	5/16	
benign(0)	5/5	
	4/13	
	13/16	
	4/16	
	1/16	
	8/18	
	10/10	
	3/4	
	1/1	
	10/16	
	5/16	
	10/22	
	2/17	
	20/25	
	1/1	
	12/14	
	11/23	
	9/23	
	10/21	
	14/14	hmmpanther:PTHR15706,hmmpanther:P
	8/22	
	7/22	
	1/2	
benign(0)	6/10	hmmpanther:PTHR15012,hmmpanther:P
	1/7	
	2/13	
	10/10	
	7/21	
	3/6	
	1/3	hmmpanther:PTHR10361,hmmpanther:PT
benign(0.06)	1/6	er:PTHR10361,hmmpanther:PTHR10361:SF4,TIGI
	4/23	
	5/14	
unknown(0)	1/6	.complexity_(Seg):seg,hmmpanther:PTHR11360,hn
	6/8	
	3/8	
	1/10	TIGR00898,hmmpanther:PTHR24064,hmmpanther:
	9/14	
	6/17	1699,hmmpanther:PTHR10846,hmmpanther:PTHR
	2/17	
	5/11	

VEP annotated somatic variants

		5/11	
		16/17	
		8/18	
		13/17	
		8/9	
		7/9	
		2/7	
		7/7	
		12/18	
		7/15	
		7/10	
6/8		nmpanther:PTHR19432:SF7,hmmpanther:PTHR19	
		8/22	
		14/14	
		12/13	
		6/11	
		1/13	
		6/10	
9/11		R11785:SF113,hmmpanther:PTHR11785,TIGRFAI	
1/17		(Seg):seg,hmmpanther:PTHR10110,hmmpanther:f	
		5/13	
		18/24	
		7/23	
		11/24	
2/12		PS51465,hmmpanther:PTHR12352:SF10,hmmpant	
		15/20	
		8/11	
		28/32	
		22/26	
5/49			hmmpanther:PTHR21963
11/49			hmmpanther:PTHR21963
2/2		ampanther:PTHR23425:SF5,hmmpanther:PTHR23	
		1/4	
		32/40	
probably_damaging(0.993 benign(0.184)	30/41	hmmpanther:PTHR19897,hmmpanther:PT	
	7/7	membrane_helices:TMhelix,hmmpanther:PTHR10083	
	1/11	_site_(Signalp):SignalP-noTM,hmmpanther:PTHR1:	
		41/67	
		24/67	
possibly_damaging(0.539	25/34	hmmpanther:PTHR10799,hmmpanther:PT	
	87/109		
		65/108	
	90/109		
		8/11	
	6/6		
		2/8	
		3/8	
		4/5	
	34/69	),hmmpanther:PTHR24038,Pfam_domain:PF02466	
		2/9	
	5/9	nther:PTHR16186,hmmpanther:PTHR16186:SF10,	
		24/32	
		5/23	
		17/18	

VEP annotated somatic variants

		6/14	
	5/7	IR10264,hmmpanther:PTHR10264:SF70,Pfam_doi	
	1/5		
		5/17	
		3/20	
		13/20	
		26/27	
benign(0.209)	6/11	mpanther:PTHR24418:SF216,Gene3D:1.10.510.10	
	3/3		
benign(0.004)	1/1	mpanther:PTHR10562:SF10,Pfam_domain:PF1197	
		26/30	
		8/30	
		2/4	
		2/11	
	26/27	_complexity_(Seg):seg,hmmpanther:PTHR15245,hi	
		10/10	
	6/116	34,hmmpanther:PTHR11915,Gene3D:1.10.418.10,I	
		44/115	
	20/27	!,PROSITE_profiles:PS50102,hmmpanther:PTHR1	
benign(0.001)	5/5	hmmpanther:PTHR23239,hmmpanther:P	
benign(0.015)	3/5	hmmpanther:PTHR24217:SF9,hmmpantl	
	4/8	hmmpanther:PTHR10351:SF27,hmmpant	
benign(0.201)	6/16	hmmpanther:PTHR13924	
		8/12	
		6/9	
	5/10	hmmpanther:PTHR23179,hmmpanther:P	
		18/18	
		15/18	
benign(0.017)	3/8	hmmpanther:PTHR10060,hmmpanther:P	
		5/7	
benign(0.11)	3/13	hmmpanther:PTHR22957,hmmpanther:PT	
		1/20	
benign(0)	23/24		
		18/26	
		1/7	
probably_damaging(0.939)	3/3	04538,hmmpanther:PTHR14754,hmmpanther:PT	
benign(0)	4/11	hmmpanther:PTHR15141:SF37,hmmpant	
		1/21	
	9/9		
	6/36	ofiles:PS51192,hmmpanther:PTHR18934,hmmpan	
		27/31	
		23/28	
		7/9	
		3/8	
		7/32	
		9/11	
		3/6	
probably_damaging(0.97)	5/7	11727,hmmpanther:PTHR11727:SF10,Gene3D:3.4	
	1/1	R12548:SF13,Gene3D:1.10.10.10,Pfam_domain:PF	
		3/5	
		4/16	

VEP annotated somatic variants

benign(0)	1/1	_complexity_(Seg):seg,hmmpanther:PTHR11850,hmmpanther:PTHR11590,hmmpanther:PTHR11311,hmmpanther:PTHR10814,Gene3D:2.13/19,PROSITE_profiles:PS01180,hmmpanther:PTHR19/20,0127:SF613,Pfam_domain:PF00431,Gene3D:2.6049/57
	6/13	
	6/28	
	2/2	
	2/2	
	6/6	
	1/4	
	16/20	
	20/21	
	19/21	
benign(0)	1/3	site_(Signalp):SignalP-noTM,hmmpanther:PTHR2234/40
	1/4	
benign(0.04)	2/2	am_domain:PF14985,hmmpanther:PTHR16103:SF7/7,4/6,3/4
	6/6	
benign(0.002) benign(0.005) benign(0)	10/10	Transmembrane_helices:TMI5/8,F_domain:PIRSF019548,hmmpanther:PTHR32163,hmmpanther:PTHR12505:SF21,hmmpanther:PTHR12583,hmmpanther:PTHR15321,hmmpanther:PTHR15321
	6/13	
	9/28	
	17/28	
	16/27	
	2/7	
	2/9	
	2/3	
	4/4	
	4/4	
benign(0.415)	12/18	s:PS51156,hmmpanther:PTHR16089:SF19,hmmpanther:PTHR12932,hmmpanther:PTHR12932:SF2/5,2/5,2/5,3/5
	4/12	
	5/6	
	6/7	
	3/9	
benign(0.306)	3/4	ns:SM00449,Pfam_domain:PF00622,hmmpanther:PTHR31854
	8/10	
	5/9	

VEP annotated somatic variants

		1/9	
	29/57	10,hmmpanther:PTHR22826,hmmpanther:PTHR22	
benign(0.001)	1/9	hmmpanther:PTHR24212,hmmpanther:P	
	15/18	hmmpanther:PTHR10631:SF3,hmmpantl	
		13/13	
		11/18	
possibly_damaging(0.61)	7/24	1/26	
		hmmpanther:PTHR13800,hmmpanther:P	
		3/38	
		3/14	
benign(0.001)	10/23	Pfam_domain:PF04388,hmmpanther:	
		14/22	
		16/41	
		1/8	
possibly_damaging(0.792)	3/8	PTHR19282,hmmpanther:PTHR19282:SF169,Pfam	
		5/7	
		1/1	
		4/14	
benign(0.001)	13/15		
		7/27	
		9/9	
possibly_damaging(0.81)	2/23	TE_profiles:PS50005,SMART_domains:SM00028,;	
		37/57	
		1/58	
		18/57	
	22/58	hmmpanther:PTHR15977:SF13,hmmpant	
		44/57	
	8/11	s:PS51221,hmmpanther:PTHR12241:SF31,hmmpa	
	5/16	_profiles:PS51221,hmmpanther:PTHR12241,hmmp	
		11/12	
	23/23		
		18/24	
	4/14	_profiles:PS50294,hmmpanther:PTHR16517,hmmp	
		5/13	
		7/9	
		8/9	
		7/14	
		4/13	
	12/23	panther:PTHR11254,hmmpanther:PTHR11254:SF	
	106/106		
		3/7	
		4/6	
	14/17		
		4/15	
		8/36	
		14/21	
benign(0)	19/22	TE_profiles:PS51034,hmmpanther:PTHR22962,hmi	
		15/21	
		9/19	
		4/14	
	9/10	7,Gene3D:3.60.110.10,hmmpanther:PTHR23088:S	
		4/6	
benign(0)	36/72	ains:SM00060,Gene3D:2.60.40.10,hmmpanther:P1	
	10/13	hmmpanther:PTHR23347,hmmpanther:P	



VEP annotated somatic variants

	8/14	panther:PTHR24006,hmmpanther:PTHR24006:SF6
	4/21	hmmpanther:PTHR24006,hmmpanther:PT 4/10 14/24
	13/13	16/79 7/12 19/61 24/61 15/27 9/9
benign(0.004)	13/13	mpanther:PTHR12011,hmmpanther:PTHR12011:S 5/15
	6/6	)):seg,Transmembrane_helices:TMhelix,hmmpanth
		3/12
possibly_damaging(0.711)	6/6	panther:PTHR10108,hmmpanther:PTHR10108:SF693 3/60 15/28
	6/29	hmmpanther:PTHR14593
	24/29	19/28 hmmpanther:PTHR14593
		26/28 25/30 13/13 11/17 1/18 17/24
	6/6	Coiled-coils_(Ncoils):Coil,Low_complex 10/14 8/12
unknown(0)	1/28	_complexity_(Seg):seg,hmmpanther:PTHR13902,hi
	5/5	
benign(0)	1/6	Cleavage_site_(Signalp):SignalF 1/6 5/8 16/22
	23/24	:_profiles:PS50237,hmmpanther:PTHR11254,hmm 12/18
	3/3	6/20 4/9
	24/32	panther:PTHR11223,hmmpanther:PTHR11223:SF3,! hmmpanther:PTHR11370,hmmpanther:P 9/16 7/8 9/9
	1/10	
	3/3	hmmpanther:PTHR24399,hmmpanther:P 6/7 5/5 5/5
	2/6	3/11 13/22

VEP annotated somatic variants

benign(0.194)	2/2	im_domain:PF14893,hmmpanther:PTHR23095,hm
	3/12	hmmpanther:PTHR12246,hmmpanther:P
	5/11	her:PTHR22883,hmmpanther:PTHR22883:SF35,L
benign(0)		3/8
		3/4
	9/10	hmmpanther:PTHR24208,hmmpanther:P
		5/7
	11/11	
benign(0.002)		1/6
		11/11
		5/11
		8/23
	4/5	hmmpanther:PTHR24409,hmmpanther:P
	4/4	_profiles:PS50157,hmmpanther:PTHR24387,hmmj
		3/3
		5/7
		6/7
		4/4
probably_damaging(0.997)	5/5	,PROSITE_profiles:PS50157,hmmpanther:PTHR24
		1/3
		3/4
		3/3
		12/16
possibly_damaging(0.865)	11/14	_complexity_(Seg):seg,hmmpanther:PTHR24402,hn
benign(0)	4/5	_complexity_(Seg):seg,hmmpanther:PTHR22938,h
	1/4	PS50805,hmmpanther:PTHR24381,hmmpanther:PT
possibly_damaging(0.672)	2/3	panther:PTHR24384,hmmpanther:PTHR24384:SF1
benign(0.008)	3/3	hmmpanther:PTHR24402,hmmpanther:P
	4/4	hmmpanther:PTHR24384:SF113,hmmpan
		2/4
probably_damaging(0.981)	7/7	ofiles:PS50157,hmmpanther:PTHR23226,hmmpan
	3/3	;,PROSITE_profiles:PS50157,hmmpanther:PTHR2
	5/5	;,PROSITE_profiles:PS50157,hmmpanther:PTHR2
benign(0.018)	8/8	hmmpanther:PTHR16116
	3/12	hmmpanther:PTHR23343,hmmpanther:P
		2/2
		12/12
		31/54

VEP annotated somatic variants

GMAF	AFR_MAF	AMR_MAF	ASN_MAF
C:0.0196 G:0.3333 G:0.4714	C:0.0008 C:0.9334	C:0.049 C:0.5634	
T:0.3009 G:0.4309 A:0.3862	G:0.8737 G:0.1974 G:0.7526	G:0.7637 G:0.5346 G:0.6398	
ain:TIGR00957,Pfam_domain:PF00005,SMART_domains:SM00382,Superfamily_domains:SSF52540			
T:0.3910	T:0.77	T:0.4236	
A:0.1575 T:0.1536 T:0.0168	A:0.112 C:0.9244 T:0.0008	A:0.1758 C:0.7925 T:0.013	
G:0.3187 T:0.0198 C:0.0863	G:0.5998 T:0.0363 C:0.0356	G:0.3602 T:0.0101 C:0.1081	
A:0.0489 G:0.4329 A:0.2438 T:0.0399	A:0.0136 A:0.3964 A:0.2352 T:0.0136 T:0.2035	A:0.0072 A:0.6599 A:0.3199 T:0.0677 T:0.281	
T:0.1332 ATAA:0.3061 A:0.1601 G:0.4627	T:0.1921 ATAA:0.3427 A:0.0159 G:0.4047	T:0.1254 ATAA:0.3213 A:0.2046 G:0.5346	
C:0.2975 G:0.0591 G:0.2175 -:0.0361 G:0.0595 C:0.3544 T:0.4327 A:0.0172 G:0.0248 C:0.3728 T:0.4581 C:0.0136 A:0.2680 C:0.3083 C:0.3289 T:0.2103 T:0.0044 T:0.1332 C:0.1989 T:0.3624 G:0.3738 C:0.1781	T:0.5893 G:0.1225 G:0.2231 -:0.0023 G:0.062 C:0.7322 C:0.5378 A:0.0015 G:0.0053 C:0.3691 T:0.1566 C:0.0015 A:0.2973 C:0.2965 T:0.82 T:0.1331 T:0.0023,T:0.0023 T:0.0151 C:0.1067 T:0.466 G:0.5076 T:0.8245	T:0.7061 G:0.0259 G:0.2248 -:0.0202 G:0.0836 C:0.1671 C:0.6715 A:0.0202 G:0.049 C:0.2738 T:0.585 C:0.0259 A:0.2622 C:0.255 T:0.6354 T:0.2507 T:0,T:0 T:0.1916 C:0.2334 T:0.3559 G:0.3573 T:0.817	

VEP annotated somatic variants

A:0.1709	A:0.2163	A:0.2032
A:0.1947	A:0.0136	A:0.2349
T:0.1569	T:0.1619	T:0.1196
C:0.3782	C:0.2912	C:0.3905
T:0.0737	T:0.0507	T:0.0274
T:0.4569	C:0.3949	C:0.5014
A:0.1981	G:0.9244	G:0.7954
T:0.1450	T:0.0325	T:0.1643
G:0.1967	G:0.0787	G:0.3084
-:0.2610	-:0.4539	-:0.2507
A:0.2875	A:0.3048	A:0.2565
A:0.1096	A:0.1672	A:0.072
C:0.1941	C:0.1679	C:0.2104
T:0.1348	C:0.8684	C:0.7262
G:0.2756	G:0.2897	G:0.1715
A:0.0365	A:0.0023	A:0.0692
T:0.0317	T:0.0015	T:0.0519
T:0.0130	T:0.0008	T:0.0173

C:0.1492	C:0.1112	C:0.085
C:0.0018	C:0.0015	C:0.0058

01602,PIRSF\_domain:PIRSF037097,Superfamily\_domains:SSF48371

T:0.0833	T:0.0431	T:0.0778
G:0.1999	G:0.1989	G:0.3242
G:0.2161	G:0.2549	G:0.3256
G:0.2061	G:0.034	G:0.1052
T:0.0260	T:0.0015	T:0.0836
G:0.0395	G:0.0068	G:0.0461
G:0.2821	G:0.4372	G:0.2781
C:0.2381	C:0.2799	C:0.2579
T:0.0204	T:0.0015	T:0.0202
T:0.0487	T:0.062	T:0.0259
G:0.3181	A:0.388	A:0.7536
G:0.0663	G:0.0552	G:0.0548
C:0.4147	C:0.5688	C:0.487
C:0.2488	C:0.025	C:0.1225
G:0.3686	G:0.5287	G:0.3415
A:0.0278	A:0.0015	A:0.0476
C:0.3419	T:0.7065	T:0.7046
C:0.3401	T:0.6558	T:0.4914
A:0.3807	G:0.5537	G:0.4798
A:0.4411	A:0.1604	A:0.4207
T:0.4411	T:0.1657	T:0.4121
G:0.0966	G:0.0446	G:0.1311
A:0.1667	A:0.2383	A:0.0994
A:0.1619	A:0.2163	A:0.0994
A:0.0190	A:0.003	A:0.0231
T:0.2262	T:0.2995	T:0.2896
G:0.1146	G:0.0136	G:0.1671
-:0.0272	-:0.0151	-:0.0187

VEP annotated somatic variants

A:0.4960	A:0.1551	A:0.5591
T:0.4079	T:0.3661	T:0.4654
A:0.3584	A:0.202	A:0.4625
G:0.3998	G:0.3162	G:0.4726
C:0.2157	C:0.0666	C:0.0793
G:0.2426	A:0.8071	A:0.7277
G:0.1867	G:0.3124	G:0.2565
C:0.0244	C:0.0325	C:0.0331
A:0.1464	A:0.0893	A:0.281
A:0.0347	A:0.084	A:0.0159
T:0.0631	T:0.0045	T:0.1182
G:0.3770	G:0.2436	G:0.3314
G:0.1060	G:0.174	G:0.1023
T:0.2001	T:0.0802	T:0.281
A:0.3144	A:0.2867	A:0.1916
A:0.1639	A:0.1808	A:0.1873
A:0.2135	A:0.177	A:0.3026
G:0.3888	G:0.472	G:0.3184
T:0.3027	T:0.2277	T:0.1888
C:0.0323	T:0.7337	T:0.7233
G:0.4003	G:0.1293	G:0.4179
C:0.2129	C:0.2882	C:0.2435
C:0.3894	C:0.6634	C:0.2939
G:0.2600	A:0.8941	A:0.7666
T:0.1715	T:0.2005	T:0.1354
G:0.4936	A:0.584	A:0.4726
G:0.0825	G:0.0265	G:0.0778
C:0.0363	C:0.053	C:0.0346
T:0.1648	T:0.1747	T:0.2867
T:0.0286	T:0.0038	T:0.049
A:0.2192	A:0.0893	A:0.415
G:0.0283	G:0.003	G:0.0202
A:0.1757	A:0.0469	A:0.1671
T:0.0004	T:0	T:0
T:0.3425	T:0.2179	T:0.2925
T:0.3069	T:0.1611	T:0.3084
C:0.3534	C:0.2194	C:0.3746
T:0.1859	T:0.2746	T:0.2176
T:0.0469	T:0.0136	T:0.0648
A:0.2151	A:0.3003	A:0.2176
G:0.0417	G:0.0401	G:0.0159
C:0.1947	C:0.2095	C:0.098
T:0.1889	T:0.2095	T:0.0908
T:0.1673	T:0.0151	T:0.1988
A:0.0958	A:0.0113	A:0.0764
G:0.3303	T:0.5431	T:0.781
G:0.2825	G:0.3064	G:0.2738

VEP annotated somatic variants

C:0.3037	C:0.1316	C:0.3818
A:0.4914	A:0.3215	A:0.4654
A:0.1330	A:0.0144	A:0.0836
C:0.0242	C:0.0023	C:0.049
T:0.3688	T:0.3707	T:0.3069
-:0.1901	-:0.323	-:0.0893
-:0.0681	-:0.1619	-:0.0259
A:0.0751	A:0.115	A:0.062
T:0.4659	C:0.767	C:0.4986
T:0.3486	C:0.5923	C:0.5389
C:0.3415	C:0.174	C:0.3934
T:0.1475	T:0.0068,T:0.0068	T:0.1138,T:0.1138
G:0.2720	G:0.4289	G:0.2464
-:0.1136	-:0.2526	-:0.0836
C:0.1538	C:0.3124	C:0.098
C:0.1719	C:0.0666	C:0.1787
C:0.3610	C:0.3419	C:0.3934
G:0.2680	T:0.7095	T:0.7695
G:0.0541	G:0.0159	G:0.036
C:0.3057	C:0.649	C:0.1383
C:0.4858	C:0.8404	C:0.3991
T:0.0000	T:0	T:0
G:0.2865	G:0.1944	G:0.2464
A:0.0074	A:0.0015	A:0.0231
T:0.0006	T:0.0008	T:0
C:0.4215	C:0.6263	C:0.134
T:0.0092	T:0.0008	T:0.0086
G:0.0723	G:0.0076	G:0.0821
C:0.0707	C:0.0666	C:0.1037
C:0.0004	C:0	C:0
T:0.1849	T:0.0378	T:0.4078
A:0.0054	A:0	A:0.013
A:0.3488	A:0.5439	A:0.3573
T:0.2402	T:0.4675	T:0.1729
T:0.0741	T:0.0862	T:0.0994
C:0.4814	T:0.5787	T:0.4135
T:0.3061	T:0.3245	T:0.4222
T:0.0032	T:0	T:0
C:0.2897	C:0.3767	C:0.2118
A:0.3139	A:0.18	A:0.268
T:0.2680	T:0.1044	T:0.255
C:0.1581	C:0.1036	C:0.1499
G:0.2806	G:0.0847	G:0.3761
T:0.0425	T:0.0053,T:0.0053	T:0.062,T:0.062
T:0.0060	T:0.0008	T:0.0029
-:0.3093	-:0.3094	-:0.4524
A:0.3143	A:0.0666	A:0.4496

VEP annotated somatic variants

A:0.2965	A:0.3752	A:0.2305
G:0.0004	G:0	G:0
C:0.0645	C:0.1944	C:0.0375
G:0.0002	G:0	G:0
361,hmmpanther:PTHR13140		
T:0.1472	T:0.1362	T:0.0922
A:0.1160	A:0.2156	A:0.1138
A:0.1110	A:0.0552	A:0.1268
A:0.1494	A:0.0908	A:0.1052
T:0.1326	T:0.0121	T:0.1859
A:0.0441	A:0.0053	A:0.098
G:0.3724	G:0.4675	G:0.4049
:-0.1679	:-0.0953	:-0.2133
A:0.4968	G:0.3449	G:0.598
:-0.2812	:-0.5983	:-0.2147
C:0.2867	C:0.3109	C:0.2233
G:0.1164	G:0.034	G:0.2666
ty_(Seg):seg,Transmembrane_helices:TMhelix		
T:0.0002	T:0	T:0
T:0.3716	C:0.6286	C:0.6138
T:0.2883	T:0.0197	T:0.3905
T:0.2680	C:0.5499	C:0.7594
C:0.3015	C:0.1967	C:0.3458
A:0.0092	A:0.0008	A:0.0159
G:0.1879	G:0.239	G:0.1369
G:0.0003	G:0.0008	G:0
A:0.0853	A:0.2905	A:0.0476
	A:0.1717	A:0.2565
	G:0.6172	G:0.4035
A:0.0098	A:0	A:0.013
:-0.4427	AAG:0.8873	AAG:0.4957
C:0.3251	T:0.5106	T:0.7161
C:0.2390	C:0.2186	C:0.2104
A:0.2039	A:0.152	A:0.2205
C:0.2478	C:0.0567	C:0.4409
C:0.2260	C:0.1596	C:0.2233
:-0.2771	:-0.1959	:-0.2061
T:0.0515	T:0.025	T:0.0735
T:0.0012	T:0	T:0
T:0.3177	C:0.5794	C:0.7795
C:0.2913	T:0.59	T:0.7882
C:0.3093	T:0.5923	T:0.7061
G:0.3852	G:0.7088	G:0.2233
C:0.2666	T:0.6377	T:0.7666
A:0.1861	A:0.2496	A:0.1513
G:0.2821		
A:0.1348	A:0.0817	A:0.1671

VEP annotated somatic variants

C:0.2530	C:0.1884	C:0.2767
T:0.0727	T:0.0303	T:0.0634
C:0.3057	C:0.0953	C:0.3501
A:0.1534	A:0.3011	A:0.0908
T:0.4217	T:0.3631	T:0.3761
A:0.2640	A:0.0666	A:0.2478
T:0.2003	T:0.2867	T:0.1974
G:0.1907	C:0.7504	C:0.5994
C:0.0118	C:0	C:0.013
A:0.0533	A:0.0809	A:0.0447
	C:0.4372	C:0.1268
G:0.3542	G:0.447	G:0.268
T:0.1823	T:0.0272	T:0.1095
G:0.1364	A:0.8048	A:0.9222
A:0.4704	A:0.1445	A:0.5432
A:0.4852	A:0.6687	A:0.2983
G:0.4028	G:0.3033	G:0.4409
T:0.1294	T:0.0287	T:0.147
A:0.4706	A:0.8411	A:0.3963
C:0.3602	C:0.413	C:0.304
G:0.2214	G:0.1399	G:0.2925
G:0.0653	G:0.0393	G:0.0461
T:0.0030	T:0.0045	T:0.0043
A:0.4333	G:0.621	G:0.4481
G:0.2027	G:0.0772	G:0.2622
A:0.4904	A:0.5159	A:0.5562
C:0.3117	C:0.2829	C:0.3991
A:0.1851	A:0.1808	A:0.072
A:0.3211	A:0.3404	A:0.3184
C:0.3955	C:0.1974	C:0.3847
T:0.4884	C:0.3321	C:0.6715
G:0.2969	G:0.1702	G:0.2954
G:0.2099	G:0.4455	G:0.1412
T:0.0080		
A:0.1230	A:0.0325	A:0.1715
G:0.0491	G:0.0643	G:0.0562
A:0.2774	A:0.0522	A:0.3199
G:0.0060	G:0.0008	G:0.0014
C:0.0002	C:0	C:0
A:0.2995	A:0.233	A:0.2867
T:0.1554	T:0.2413	T:0.0634
T:0.0028	T:0	T:0.0058
C:0.4744	C:0.2526	C:0.5043
T:0.4605	T:0.202	T:0.5



VEP annotated somatic variants

G:0.3944	G:0.2723	G:0.5303
A:0.3444	A:0.1097	A:0.3429
T:0.1392	T:0.0356	T:0.2277
T:0.4700	C:0.888	C:0.3818
T:0.1983	T:0.0166	T:0.3228
A:0.0643	A:0.0113	A:0.0274
G:0.3650	G:0.4228	G:0.3646
G:0.0034	G:0	G:0
G:0.2248	G:0.4728	G:0.1556
1.10.260.40,Pfam_domain:PF02376,Superfamily_domains:SSF47413		
A:0.3916	T:0.615	T:0.4222
C:0.3934	T:0.6142	T:0.4193
A:0.1146	A:0.1604	A:0.1369
A:0.0681	A:0.034	A:0.049
G:0.2027	G:0.3707	G:0.2622
T:0.2314	T:0.4743	T:0.2738
T:0.2057	T:0.3139	T:0.2161
C:0.3990	A:0.8359	A:0.4957
A:0.3001	A:0.2269	A:0.3213
T:0.3231	C:0.9183	C:0.6268
A:0.4177	G:0.4599	G:0.7017
A:0.4675	C:0.7474	C:0.513
C:0.1737	C:0.2587	C:0.1167
A:0.1262	A:0.1029	A:0.1052
G:0.1617	G:0.0431	G:0.2277
A:0.1164	A:0.1218	A:0.1182
G:0.3107	G:0.5182	G:0.1974
C:0.0004	C:0	C:0
T:0.3658	C:0.7103	C:0.6066
T:0.0449	T:0.0061	T:0.0735
A:0.4317	C:0.2965	C:0.6297
G:0.3752	G:0.2103	G:0.464
A:0.4301	A:0.5711	A:0.4063
T:0.3914	T:0.1036	T:0.4856
TG:0.3355	TG:0.2118	TG:0.2723
T:0.4073	T:0.562	T:0.2421
C:0.2931	C:0.388	C:0.2421
G:0.2254	G:0.1407	G:0.2363
A:0.2264	A:0.143	A:0.2363
C:0.0002	C:0	C:0
-:0.1394	-:0.0666	-:0.1297
G:0.3446	G:0.2057	G:0.3559
T:0.2312	T:0.23	T:0.3516
A:0.3450	A:0.8101	A:0.1354
G:0.0621	G:0.143	G:0.0259
A:0.4238	G:0.618	G:0.438
T:0.0012	T:0.0008	T:0.0014
T:0.0735	T:0.034	T:0.0648

VEP annotated somatic variants

T:0.3247	T:0.4092	T:0.281
G:0.1308	G:0.0068	G:0.2089
G:0.4900	G:0.4448	G:0.4841
T:0.3381	T:0.1581	T:0.3862
G:0.3385	G:0.1127	G:0.3948
G:0.3257	G:0.1142	G:0.3804
G:0.0290	G:0.003	G:0.0259
G:0.0292	G:0.003	G:0.0259
T:0.3255		
C:0.2109	C:0.0356	C:0.2594
C:0.0230	C:0.0023	C:0.0202
A:0.0116	A:0.0015	A:0.0144
G:0.4828	G:0.5537	G:0.4683
T:0.1418	T:0.0938	T:0.2392
A:0.1240	A:0.2337	A:0.0692
C:0.2418	C:0.0772	C:0.3343
A:0.1715	C:0.9766	C:0.7651
T:0.0942	T:0.0825	T:0.1326
A:0.0451	A:0.0038	A:0.0274
T:0.2808	T:0.2564	T:0.2104
C:0.2792	C:0.261	C:0.1916
A:0.4199	A:0.6082	A:0.2248
A:0.2099	A:0.1188	A:0.2089
:-0.0070	:-0	:-0.0101
C:0.2568	A:0.6672	A:0.696
T:0.1216	T:0.121	T:0.0821
T:0.0126	T:0.0008	T:0.0317
A:0.4758	A:0.4213	A:0.5331
C:0.0042	C:0.0008	C:0.0086
A:0.2256	A:0.1256	A:0.2767
C:0.4876	C:0.7943	C:0.487
C:0.2175	C:0.3873	C:0.2406
A:0.0525	A:0.0197	A:0.0793
C:0.4357	C:0.2655	C:0.6081
G:0.1424	G:0.1309	G:0.1513
ref:PTHR14207		
A:0.0286	A:0.0038	A:0.0317
G:0.3141	G:0.1785	G:0.3761
A:0.0467	A:0.0091	A:0.0807
C:0.4457	T:0.5061	T:0.5418
T:0.3562	T:0.0401	T:0.5
T:0.1689	T:0.1876	T:0.1542
T:0.4908	C:0.7799	C:0.5072
G:0.0102	G:0	G:0.0288
:-0.1777	:-0.1838	:-0.1455
A:0.2420	A:0.0257	A:0.2248

VEP annotated somatic variants

T:0.1054	T:0.0076	T:0.1988
T:0.0078	T:0.0015	T:0.0187
A:0.3319	G:0.8502	G:0.5807
T:0.3632	T:0.0877	T:0.4625
T:0.2045	T:0.0348	T:0.317
A:0.4177	A:0.4289	A:0.6556
T:0.3990	T:0.4924	T:0.5403
G:0.4461	G:0.6135	G:0.6225
T:0.2163	T:0.1036	T:0.2421
C:0.4277	G:0.7315	G:0.5101
A:0.3033	T:0.8457	T:0.5432
A:0.3035	G:0.8449	G:0.5447
T:0.3359	C:0.9259	C:0.621
G:0.4445	C:0.6876	C:0.5548
A:0.4425	G:0.6921	G:0.5576
T:0.0631	T:0.028	T:0.183
G:0.4860	G:0.4259	G:0.4885
C:0.0092	C:0.0008	C:0.0086
T:0.1188	T:0.0045	T:0.0922
T:0.0020	T:0.0068	T:0.0014
A:0.1695	A:0.5091	A:0.0908
G:0.2155	G:0.3533	G:0.1427
T:0.0627	T:0.084	T:0.0807
A:0.2157	A:0.18	A:0.2723
A:0.3662	G:0.4032	G:0.6009
A:0.3780	A:0.0514	A:0.5447
A:0.0505	A:0.0015	A:0.0331
A:0.4197	A:0.472	A:0.451
T:0.1524	T:0.177	T:0.085
T:0.0577	T:0.0061	T:0.0807
T:0.4203	T:0.1672	T:0.5159
T:0.4293	T:0.2156	T:0.4971
T:0.1438	T:0.1505	T:0.1383
T:0.0092	T:0.0008	T:0.0159
A:0.3516	A:0.4781	A:0.3876
C:0.1024	C:0.1536	C:0.0735
7,PIRSF_domain:PIRSF000354	T:0.09	T:0.0648
4265,hmmpanther:PTHR24265:SF23,SMART_domains:SM00020,Superfamily_domains:SSF50494		
A:0.4344	A:0.4735	A:0.3184
G:0.1344	G:0.0174	G:0.3199
G:0.2320	G:0.0582	G:0.4597
G:0.4159	G:0.2821	G:0.2752
G:0.4744	A:0.8411	A:0.3905
G:0.3287	C:0.5666	C:0.4611
T:0.2803	T:0.2179	T:0.2594
C:0.0990	C:0.093	C:0.0937
A:0.0052	A:0.0008	A:0.0072
A:0.0531	A:0.0212	A:0.1239

VEP annotated somatic variants

C:0.3598	T:0.8949	T:0.5778
T:0.3502	G:0.5325	G:0.7003
G:0.0174	G:0	G:0.0115
A:0.4681	A:0.6218	A:0.3012
G:0.2400	G:0.1906	G:0.3285
G:0.1775	A:0.7254	A:0.8833
G:0.3902	G:0.1762	G:0.4121
T:0.0144	T:0.0015	T:0.036
A:0.2234	G:0.888	G:0.817
A:0.2809	G:0.8843,G:0.8843	G:0.7839,G:0.7839
A:0.2220	C:0.8911,C:0.8911	C:0.817,C:0.817
C:0.4435	C:0.3601	C:0.3545
C:0.2107	C:0.0946	C:0.1153
T:0.2280	T:0.1157	T:0.1398
A:0.0651	A:0.0098	A:0.0965
A:0.0837	A:0.0189	A:0.1081
A:0.0859	A:0.0272	A:0.1081
T:0.1767	T:0.2988	T:0.134
T:0.0002	T:0.0008	T:0
C:0.0541	C:0.0068	C:0.0663
A:0.4331	A:0.6377	A:0.4654
A:0.2490	A:0.1974	A:0.2262
A:0.3425	A:0.3116	A:0.3919
G:0.2356	G:0.5787	G:0.1254
A:0.0002	A:0	A:0
T:0.3367	T:0.2398	T:0.3631
T:0.3498	T:0.6868	T:0.3501
G:0.4261	A:0.5696	A:0.536
A:0.2995	A:0.1097	A:0.3098
G:0.2991	A:0.8101	A:0.5159
C:0.3125	C:0.2663	C:0.4452
T:0.3195	T:0.1505	T:0.4452
C:0.4289	T:0.7247	T:0.6066
T:0.0156	T:0.0038	T:0.0288
A:0.0477	A:0.003	A:0.1124
A:0.4339	A:0.5628	A:0.2392
A:0.0042	A:0	A:0.0058
G:0.2021	G:0.3222	G:0.2017
-:0.3598	GGTTACCCTA:0.5582	GGTTACCCTA:0.7853
C:0.2053	C:0.0673	C:0.3761
G:0.3758		
T:0.1416	T:0.0651	T:0.2334
-:0.3438	-:0.084	-:0.317
T:0.3446	T:0.0847	T:0.317
C:0.3578	T:0.5416	T:0.6816
G:0.4934	G:0.295	G:0.6542
C:0.2173	C:0.1649	C:0.2291
A:0.3271	A:0.5318	A:0.2637
C:0.4930	C:0.5045	C:0.4683
M00261,Superfamily_domains:SSF57184,Superfamily_domains:SSF57184		
G:0.2766	G:0.0651	G:0.438

VEP annotated somatic variants

T:0.2913	T:0.1422	T:0.4424
A:0.1563	A:0.1808	A:0.232
T:0.2666	T:0.0825	T:0.4294
T:0.2626	T:0.2769	T:0.353
T:0.1030	T:0.1891	T:0.0634
A:0.2448	A:0.1467	A:0.3055
T:0.0044	T:0.0008	T:0.0058
T:0.3427	A:0.9236	A:0.5576
C:0.3229	C:0.27	C:0.3213
C:0.4687	C:0.2443	C:0.5317
T:0.4671	C:0.2095	C:0.6427
T:0.2119	T:0.1725	T:0.1787
T:0.3522	T:0.3434	T:0.3084
-:0.1192	-:0.0885	-:0.0634
A:0.4888	A:0.1808	A:0.6052
G:0.0781	G:0.0174	G:0.1643
T:0.0092	T:0.0015	T:0.0187
G:0.2760	G:0.1899	G:0.2954
T:0.1983	T:0.1407	T:0.1844
G:0.3820	G:0.4977	G:0.415
T:0.3297	T:0.2466	T:0.4251
C:0.0972	C:0.2716	C:0.0476
A:0.0613	A:0.174	A:0.0346
T:0.0487	T:0.1286	T:0.0303
A:0.1308	A:0.0303	A:0.1282
T:0.1428	T:0.0371	T:0.1441
A:0.1436	A:0.0371	A:0.1441
T:0.1262	T:0.0825	T:0.2378
G:0.0511	G:0.0121	G:0.062
G:0.3091	G:0.1074	G:0.2781
G:0.3924	G:0.438	G:0.4899
C:0.1146	C:0.208	C:0.062
G:0.2069	G:0.0825	G:0.2061
G:0.0008	G:0	G:0.0014
T:0.1645	T:0.0129	T:0.1787
G:0.2294	G:0.1437	G:0.2522
A:0.1204	A:0.0068	A:0.1398
A:0.0212	A:0.0015	A:0.0591
A:0.0064	A:0	A:0.0072
A:0.2310	A:0.0908	A:0.4035
A:0.1118	A:0.0552	A:0.1643
A:0.2556	A:0.2474	A:0.3084
G:0.4353	A:0.6974	A:0.4769
T:0.0132	C:0.7579	C:0.745
G:0.0535	G:0.0204	G:0.0562
A:0.1208	A:0.0053	A:0.1153
C:0.3363	C:0.2958	C:0.3242
A:0.3185	T:0.9418	T:0.683
T:0.2440	T:0.1286	T:0.3516
T:0.1440	T:0.0197	T:0.1758
A:0.0665	A:0.087	A:0.0908
A:0.2939	A:0.2958	A:0.2839

VEP annotated somatic variants

C:0.1875	C:0.2262	C:0.2075
A:0.1595	A:0.1051	A:0.0908
A:0.4069	G:0.7549	G:0.4683
THR21231:SF7		
A:0.2321	A:0.0113	A:0.147
G:0.3806	C:0.8079	C:0.5072
T:0.0072	T:0.0008	T:0.0159
A:0.3816	A:0.2466	A:0.3357
A:0.3003	A:0.2496	A:0.3127
G:0.1170	G:0.1498	G:0.0749
C:0.2418	C:0.0719	C:0.2392
A:0.1803	A:0.2042	A:0.1571
C:0.4696	A:0.6846	A:0.5793
T:0.1791	T:0.2194	T:0.1499
A:0.0040	A:0.0008	A:0.0058
G:0.3407	A:0.4841	A:0.7522
A:0.1076	A:0.0129	A:0.0865
T:0.1703	T:0.0552	T:0.2565
C:0.0655	C:0.0136	C:0.1196
T:0.0555	T:0.1415	T:0.0303
C:0.2223	T:0.5378	T:0.6297
T:0.2482	T:0.2784	T:0.2133
T:0.0090	T:0.003	T:0.0058
T:0.0733	T:0.0121	T:0.1369
T:0.0727	T:0.0121	T:0.1354
A:0.3176	A:0.0061	A:0.3401
C:0.4453	A:0.5363	A:0.67
C:0.3658	C:0.2905	C:0.2579
C:0.2454	C:0.4523	C:0.1844
T:0.1565	C:0.8517	C:0.8012
A:0.0206	A:0.0023	A:0.0504
C:0.3370	T:0.559	T:0.5187
A:0.0144	A:0.0121	A:0.013
A:0.0883	A:0.0703	A:0.1052
T:0.0891	T:0.0703	T:0.1052
C:0.3914	C:0.3578	C:0.4395
C:0.4379	C:0.2519	C:0.2882
T:0.4383	C:0.5613	C:0.3314
T:0.0749	T:0.0257	T:0.1268
G:0.0731	G:0.0113	G:0.1153
T:0.0006	T:0	T:0.0014
C:0.0325	C:0.0651	C:0.0086
A:0.3243	A:0.2292	A:0.2767
C:0.3474	T:0.8215	T:0.5476
T:0.1735	T:0.2315	T:0.1138
T:0.0661	T:0.0053	T:0.0389

VEP annotated somatic variants

A:0.3944	A:0.1309	A:0.4524
A:0.0797	A:0.0076	A:0.2464
T:0.3830	T:0.2943	T:0.33
T:0.1843	T:0.1286	T:0.1931
G:0.3582	A:0.4508	A:0.6326
T:0.4525	T:0.0696	T:0.5951
A:0.2524	A:0.236	A:0.3775
A:0.0427	A:0.0182	A:0.0331
T:0.0549	T:0.1195	T:0.0576
C:0.1224	C:0.1657	C:0.098
A:0.0661	A:0.0076	A:0.0663
A:0.2570	A:0.211	A:0.2075
C:0.3897	C:0.0265	C:0.3689
her:PTHR11254		
T:0.2692	T:0.3427	T:0.3271
G:0.4609	G:0.652	G:0.3588
C:0.0154	C:0.003	C:0.0173
G:0.3736	G:0.4849	G:0.3991
G:0.3638	C:0.4123	C:0.8444
G:0.3918	G:0.171	G:0.4481
G:0.2304	G:0.1346	G:0.3429
T:0.3844		
A:0.2224	A:0.093	A:0.2738
A:0.2770	A:0.3328	A:0.2925
T:0.2109	T:0.3661	T:0.183
T:0.4972	C:0.4236	C:0.3357
G:0.2437	G:0.3253	G:0.2406
A:0.3804	A:0.6067	A:0.4092
A:0.2634	A:0.3775	A:0.317
G:0.3950	G:0.7057	G:0.402
C:0.0599	C:0.1505	C:0.0346
-:0.0264	-:0.003	-:0.0447
G:0.3155		
GG:0.3822	-:0.6952,-:0.6952	-:0.572,-:0.572
T:0.0018	T:0	T:0
T:0.1104	T:0.177	T:0.1023
T:0.0178	T:0.0098	T:0.0274
C:0.0048	C:0.0008	C:0.0029
A:0.1268	A:0.0938	A:0.1729
G:0.3231	G:0.4145	G:0.2622
T:0.2448	T:0.1793	T:0.2363
G:0.2478	G:0.2057	G:0.2435
A:0.0168	A:0.0015	A:0.0288
G:0.3976	G:0.4054	G:0.5303
A:0.2698	A:0.146	A:0.2522
A:0.0497	A:0.0129	A:0.0259
C:0.0036	C:0	C:0.0014

VEP annotated somatic variants

A:0.4143	G:0.7141	G:0.5922
T:0.4123	C:0.7141	C:0.5922
C:0.1406	C:0.0083	C:0.1657
A:0.2642	A:0.4236	A:0.1931
C:0.2590	C:0.2012	C:0.3934
T:0.2450	T:0.1989	T:0.379
T:0.4922	C:0.7042	C:0.5576
A:0.0776	G:0.6967	G:0.5994
C:0.0016	C:0	C:0.0014
T:0.3031	T:0.3154	T:0.2752
A:0.0030	A:0	A:0
A:0.0407	A:0.0038	A:0.0591
G:0.4283	A:0.7716	A:0.389
C:0.2532	C:0.0234	C:0.2536
T:0.1591	T:0.1233	T:0.1772
A:0.2388	G:0.7073	G:0.8012
A:0.0755	A:0.0197	A:0.0764
G:0.2019	G:0.1006	G:0.2205
T:0.1877	T:0.056	T:0.2147
-:0.3087	-:0.2776	-:0.3012
T:0.1142	T:0.1339	T:0.1974
G:0.2831	G:0.3343	G:0.3228
A:0.2506	A:0.1641	A:0.2291
A:0.3189	A:0.3026	A:0.3444
C:0.4385	T:0.6074	T:0.6398
C:0.3672	C:0.4818	C:0.3228
T:0.2887	T:0.4455	T:0.3919
T:0.1510	T:0.0545	T:0.2882
C:0.0266	C:0.0015	C:0.0288
A:0.1456	A:0.2194	A:0.1484
A:0.0595	A:0.0764	A:0.0187
T:0.0012	T:0.0008	T:0
A:0.1555	A:0.0204	A:0.0259
G:0.3600	G:0.4387	G:0.3213
G:0.3335	G:0.416	G:0.281
T:0.3275		
A:0.0495	A:0.0325	A:0.0072
A:0.2712	A:0.028	A:0.3055
G:0.2969	G:0.5749	G:0.2233

ipanthr:PTHR22590:SF1,SMART\_domains:SM00015,Superfamily\_domains:SSF52540

A:0.0162	A:0.0008	A:0.0202
A:0.2804	A:0.0741	A:0.1614
T:0.2438	T:0.0741	T:0.2867
T:0.0974	T:0.1233	T:0.0533
C:0.3556	C:0.2073	C:0.3732



VEP annotated somatic variants

G:0.1354  
3F155,hmmpanther:PTHR24412

G:0.0151

G:0.2666

C:0.0042  
C:0.4367  
A:0.1999  
T:0.4481

C:0.0008  
A:0.5287  
G:0.8775  
T:0.1044

C:0.0072  
A:0.4942  
G:0.647  
T:0.5951

T:0.0978  
A:0.0004  
C:0.3083  
A:0.1707  
T:0.2143  
T:0.2592  
A:0.2149  
T:0.0174  
-:0.1168  
G:0.2536  
A:0.4169  
G:0.0994  
G:0.4683  
T:0.4950  
A:0.4299  
A:0.2748  
A:0.4477

T:0.0356  
A:0  
C:0.3729  
A:0.0635  
C:0.8714  
C:0.82  
G:0.9191  
T:0  
-:0.1717  
G:0.4002  
A:0.118  
T:0.9887  
A:0.3321  
C:0.2398  
A:0.3729  
A:0.0666  
G:0.5779

T:0.1009  
A:0  
C:0.1816  
A:0.1196  
C:0.7493  
C:0.7104  
G:0.7493  
T:0.0274  
-:0.1715  
G:0.17  
A:0.5346  
T:0.8746  
A:0.6254  
C:0.6138  
A:0.4063  
A:0.3516  
G:0.6369

A:0.2955  
A:0.2530  
C:0.4551  
T:0.3297  
A:0.0002  
T:0.2875

A:0.3283  
A:0.1997  
A:0.4917  
T:0.4781  
A:0  
T:0.4017

A:0.2291  
A:0.3862  
A:0.6297  
T:0.3862  
A:0.0014  
T:0.2536

A:0.3347

A:0.5076

A:0.281

T:0.4972  
G:0.0016  
C:0.3357  
G:0.1212  
T:0.4067  
A:0.4675  
T:0.0491  
A:0.0002  
A:0.0132  
A:0.4093  
T:0.4016  
A:0.3630  
G:0.0068

C:0.2247  
G:0.0008  
C:0.348  
G:0.0265  
C:0.1717  
A:0.3245  
T:0.0401  
A:0  
A:0.0015  
A:0.3699  
T:0.4637  
A:0.0772  
G:0.0015

C:0.464  
G:0.0014  
C:0.2305  
G:0.1902  
C:0.6801  
A:0.5288  
T:0.0504  
A:0  
A:0.0173  
A:0.5231  
T:0.3631  
A:0.2925  
G:0.0159

G:0.0815  
A:0.0084  
G:0.1508

G:0.0938  
A:0.0008  
G:0.0182

G:0.0965  
A:0.0101  
G:0.2003

VEP annotated somatic variants

T:0.2809	T:0.118	T:0.4251
A:0.1983	A:0.0983	A:0.1902
C:0.0222	C:0	C:0.0144
G:0.4034	T:0.8759	T:0.5735
G:0.0032	G:0.0008	G:0
T:0.2270	G:0.7595	G:0.8429
T:0.2750	T:0.084	T:0.4928
C:0.0411	C:0.0015	C:0.1052
T:0.2019	C:0.8707	C:0.8127
C:0.1113	C:0.025	C:0.0519
C:0.4225	C:0.1793	C:0.1758
C:0.2591	C:0.3964	C:0.1225
C:0.2866	T:0.4365	T:0.5865
T:0.1158	T:0.0257	T:0.2003
G:0.2416	G:0.0393	G:0.2579
A:0.3361	A:0.5552	A:0.3314
C:0.4339	C:0.1762	C:0.4841
C:0.3205	T:0.1082	T:0.6412
T:0.0064	T:0.0008	T:0.0086
C:0.0036	C:0	C:0.0115
G:0.0108	G:0.0008	G:0.0144
-:0.0050	-:0	-:0.0058
T:0.4976	C:0.6679	C:0.3473
C:0.4469	C:0.4652	C:0.3343
G:0.2772	G:0.2368	G:0.3718
T:0.3958	T:0.1959	T:0.3444
G:0.1030	G:0.1437	G:0.1873
A:0.3638	A:0.2814	A:0.5029
T:0.1360	T:0.0454	T:0.1499
A:0.0008	A:0,A:0	A:0.0014,A:0.0014
T:0.3135	C:0.8767	C:0.6297
C:0.3053	C:0.0408	C:0.4308
C:0.0006	C:0	C:0
C:0.0002	C:0	C:0.0014
G:0.4916	G:0.8101	G:0.3746
T:0.1873	T:0.0303	T:0.3084
T:0.0725	T:0.0061	T:0.1988
T:0.1348	T:0.1369	T:0.134
A:0.0527	A:0.0061	A:0.0879
A:0.2650	A:0.2451	A:0.1744
A:0.3832	A:0.2511	A:0.2925
T:0.2105	T:0.1135	T:0.1441
T:0.1484	T:0.1619	T:0.1974
T:0.4764	A:0.7814	A:0.5389
A:0.2244	A:0.2549	A:0.2205
A:0.4962	G:0.7118	G:0.5346
T:0.0609	T:0.1392	T:0.0159

VEP annotated somatic variants

C:0.0495	C:0.0287	C:0.0591
C:0.3107	C:0.5333	C:0.3098
C:0.4373	T:0.848	T:0.5086
G:0.2125	G:0.0121	G:0.317
T:0.2943	T:0.497	T:0.3501
A:0.2544	A:0.1785	A:0.2824
G:0.0335	G:0.0461	G:0.036
G:0.0014	G:0	G:0
T:0.1483	T:0.0068	T:0.1138
G:0.2485	A:0.6589	A:0.5764
T:0.4778	T:0.3623	T:0.5202
G:0.2079	A:0.9236	A:0.7666
C:0.4471	T:0.643	T:0.5173
G:0.4255	G:0.4251	G:0.3833
A:0.0903	G:0.9259	G:0.8559
C:0.3790	C:0.267	C:0.4669
G:0.3347	G:0.0333	G:0.3357
A:0.0036	A:0	A:0.0072
T:0.0581	T:0.0045	T:0.1427
T:0.1745	T:0.1921	T:0.2104
T:0.3103	T:0.1558	T:0.4654
T:0.2206	T:0.4365	T:0.1542
G:0.3233	G:0.149	G:0.4323
G:0.2476	T:0.9115	T:0.6844
G:0.3277	G:0.1619	G:0.4481
G:0.4625	A:0.4365	A:0.6124
GGGAGA:0.3542	GGGAGA:0.3321	GGGAGA:0.2651
C:0.2264	C:0.27	C:0.2983
C:0.1120	C:0.0068	C:0.1066
A:0.1991	A:0.3585	A:0.1571
T:0.3027	C:0.6808	C:0.6196
G:0.4914	A:0.2126	A:0.6441
A:0.3889	G:0.357	G:0.4769
A:0.4271	A:0.3374	A:0.451
G:0.3892	-:0.3555	-:0.6643
T:0.2039	T:0.0575	T:0.2349
C:0.1056	C:0.0212	C:0.1888
T:0.0797	T:0.1362	T:0.0706
C:0.3512	C:0.7171	C:0.2378
A:0.3327	A:0.0643	A:0.4856
C:0.4201	C:0.2095	C:0.3963
T:0.0705	T:0.0038	T:0.0418
C:0.4704	C:0.6626	C:0.3199
C:0.0315	C:0.0106	C:0.0389
A:0.4796	G:0.5219	G:0.6196
T:0.0034	T:0	T:0.0115
C:0.3059	C:0.0257	C:0.5908

VEP annotated somatic variants

T:0.1965	T:0.3306	T:0.2219
T:0.0176	T:0.0015	T:0.0231
G:0.4601	G:0.4796	G:0.549
A:0.3317	T:0.7935	T:0.549
G:0.3570	G:0.2231	G:0.3775
T:0.3363	T:0.1566	T:0.3631
C:0.3361	C:0.1566	C:0.3631
A:0.3528	A:0.2133	A:0.3732
T:0.0439	T:0.0061	T:0.0231
T:0.0038	T:0.0008	T:0.0101
A:0.0038	A:0	A:0.0029
A:0.2889	A:0.2065	A:0.2378
A:0.3143	A:0.1823	A:0.4294
T:0.1581	T:0.0348	T:0.2291
C:0.4988	C:0.0991	C:0.8199
T:0.3381	C:0.4516	C:0.8934
T:0.2588	T:0.0076	T:0.1844
C:0.4792	C:0.4939	C:0.5605
G:0.2774	G:0.2852	G:0.2925
C:0.0032	C:0	C:0.0014
T:0.0048	T:0	T:0.0043
A:0.4916	G:0.3502	G:0.6859
G:0.1158	G:0.2277	G:0.1138
G:0.3049	G:0.093	G:0.3761
A:0.4954	G:0.4334	G:0.4726
C:0.2716	T:0.8971	T:0.7651
A:0.0030	A:0	A:0.0043
G:0.0060	G:0	G:0.0159
-:0.0450		
C:0.0048	C:0.0008	C:0.013
T:0.2246	T:0.0272	T:0.2262
A:0.0240	A:0.053	A:0.0216
A:0.0162	A:0.0212	A:0.0029
G:0.3594	G:0.4402	G:0.353
A:0.2073	A:0.1089	A:0.196
A:0.0757	A:0.0061	A:0.1499
G:0.0074	G:0	G:0.0115
T:0.3155	T:0.1036	T:0.3963
T:0.1763	G:0.9297	G:0.7853
G:0.1166	G:0.1437	G:0.0692
T:0.0206	T:0.0038	T:0.0317
G:0.1164	G:0.1483	G:0.1153
G:0.1392	G:0.295	G:0.0648
G:0.3177	G:0.2708	G:0.3516

VEP annotated somatic variants

G:0.2440	G:0.4017	G:0.2378
T:0.0032	T:0.0061	T:0.0029
C:0.1056	C:0.2534	C:0.0706
C:0.3247	A:0.739	A:0.6182
T:0.0134	T:0.0015	T:0.0303
C:0.1374	C:0.0658	C:0.1066
A:0.0717	A:0.0174	A:0.0807
A:0.1486	A:0.354	A:0.1441
T:0.1144	T:0.0855	T:0.232

A:0.1605	A:0.0166	A:0.1484
A:0.4579	G:0.5386	G:0.6369

-.0.1550	-.0.0567	-.0.1282
T:0.1550	T:0.0567	T:0.1282
C:0.4477	T:0.3979	T:0.4236
C:0.4475	A:0.3986	A:0.4236
T:0.1823	C:0.7443	C:0.621
C:0.1311	C:0.1626	C:0.0951
T:0.1391	T:0.1815	T:0.1009
C:0.1391	C:0.1815	C:0.1009
C:0.3025	C:0.3828	C:0.2032
G:0.3998	G:0.5711	G:0.3631
A:0.0148	A:0.0015	A:0.0115
A:0.3199	A:0.2118	A:0.4409
C:0.2893	T:0.6384	T:0.7853
T:0.4103	G:0.9342	G:0.4625
A:0.0030		
A:0.0437	A:0.0741	A:0.0317
T:0.0234	T:0.003	T:0.0274
T:0.0240	T:0.0023	T:0.0259
A:0.1969	A:0.1354	A:0.2651
G:0.3217	G:0.4576	G:0.2738
T:0.2768	C:0.851	C:0.696
A:0.0102	A:0.0008	A:0.0043
A:0.1683	A:0.2958	A:0.0893
G:0.0395	G:0.0121	G:0.0447
T:0.0899	T:0.0068	T:0.0677
G:0.2077	G:0.3638	G:0.1196
G:0.3289	G:0.7421	G:0.1715

G:0.0615	G:0.1142	G:0.0706
AGC:0.2111	AGC:0.1596	AGC:0.2133
G:0.4196	G:0.5318	G:0.1383
A:0.0976	A:0.0083	A:0.2277

T\_domains:SM00360,SMART\_domains:SM00361,Superfamily\_domains:SSF54928,TIGRFAM\_domai

T:0.0216	T:0.0045	T:0.0331
A:0.3335	A:0.1339	A:0.3545
A:0.0489	A:0.1641	A:0.0216
A:0.0693	A:0.0885	A:0.1023
G:0.3608	G:0.4766	G:0.2233
A:0.2256	A:0.0136	A:0.2983

VEP annotated somatic variants

A:0.1302	A:0.0552	A:0.1297
T:0.1408	T:0.1679	T:0.0778
G:0.0050	G:0	G:0.0086
G:0.0357	G:0.0121	G:0.0562
G:0.1560	G:0.1498	G:0.1556
G:0.1573	G:0.1808	G:0.232
her:PTHR24027		
A:0.0885	A:0.0204	A:0.0793
G:0.3327	A:0.9009	A:0.6715
A:0.0022		
T:0.3880	T:0.1437	T:0.451
G:0.0144	G:0.0023	G:0.0187
A:0.2855	A:0.2534	A:0.2406
T:0.0006		
C:0.2853	C:0.3041	C:0.3184
C:0.2989	C:0.3525	C:0.3228
C:0.4507	C:0.351	C:0.6297
G:0.4177	G:0.3313	G:0.6153
G:0.3399	G:0.1687	G:0.5331
-:0.2288	-:0.0961	-:0.3718
G:0.1975	G:0.0696	G:0.2536
T:0.4365	G:0.7103	G:0.4179
A:0.1945	A:0.146	A:0.1499
C:0.2234	C:0.2617	C:0.1585
A:0.2784	A:0.4932	A:0.2176
G:0.2584	G:0.4206	G:0.2133
G:0.4467	G:0.438	G:0.4597
T:0.2594	T:0.1354	T:0.2161
C:0.0874	C:0.0053	C:0.1873
T:0.2246	T:0.1581	T:0.2406
G:0.3255	G:0.3389	G:0.3689
T:0.3087	T:0.3169	T:0.3415
A:0.1641	A:0.2504	A:0.245
G:0.2949	G:0.2708	G:0.17
C:0.2378	C:0.1982	C:0.1902
G:0.0956	G:0.0144	G:0.1239
G:0.0753	G:0.0038	G:0.0634
G:0.2222	G:0.3472	G:0.2997
A:0.3718	A:0.3676	A:0.2867
G:0.4421	G:0.4312	G:0.3429
A:0.1367	A:0.053	A:0.2205
C:0.3532	C:0.1808	C:0.4683
A:0.4920	T:0.3411	T:0.5519
C:0.0353	C:0.0136	C:0.0634
T:0.1034	T:0.0166	T:0.0706
A:0.0883	A:0.0416	A:0.062
G:0.4852	G:0.59	G:0.3473

VEP annotated somatic variants

T:0.2131	T:0.2012	T:0.1729
T:0.3079	T:0.4561	T:0.2104
C:0.2378	C:0.1672	C:0.2983
A:0.2929	G:0.7352	G:0.6671
T:0.1312	C:0.916	C:0.8343
C:0.4667	C:0.8782	C:0.3674
G:0.2324	G:0.0613	G:0.2882
A:0.2382	A:0.0416	A:0.2983
A:0.2302	A:0.0272	A:0.2968
G:0.4770	G:0.8979	G:0.3746
G:0.4461	G:0.7844	G:0.3703
T:0.2111	T:0.093	T:0.1974
G:0.4677	C:0.5605	C:0.6023
G:0.3926	G:0.3691	G:0.3559
A:0.1400	A:0.0605	A:0.1671
A:0.4830	A:0.3321	A:0.6484
T:0.2432	T:0.3101	T:0.1614
T:0.2404	T:0.3238	T:0.1859
C:0.3754	C:0.3177	C:0.2666
A:0.2021	A:0.3419	A:0.1758
-:0.2081	-:0.1172,-:0.1172	-:0.17,-:0.17
G:0.1354	G:0.1899	G:0.1744
A:0.3614	A:0.4168	A:0.4496
C:0.2228	C:0.5083	C:0.1268
G:0.0703	G:0.0053	G:0.1167
T:0.1266	T:0.0484	T:0.1138
T:0.4718	C:0.4887	C:0.6023
GAACCC:0.3890	GAACCC:0.4493	GAACCC:0.2896
G:0.3534	G:0.2315	G:0.3761
A:0.0974	A:0.0083	A:0.2262
C:0.3147	C:0.2874	C:0.2622
TGTTT:0.1777	TGTTTTGTTT:0.1604	TGTTTTGTTT:0.1556
C:0.3746	T:0.3956	T:0.4049
A:0.3958	A:0.3555	A:0.4049
A:0.3486	A:0.1679	A:0.3372
T:0.3470	C:0.5113	C:0.513
A:0.3526	T:0.5	T:0.5115
T:0.3528	C:0.5	C:0.5101
G:0.3349	G:0.5174	G:0.1888
G:0.4968	G:0.5915	G:0.5072
G:0.2899	G:0.2481	G:0.2565
A:0.2823	A:0.3411	A:0.2925
A:0.0196	A:0.0023	A:0.0504
A:0.0102	A:0	A:0.0202
T:0.3998	T:0.59	T:0.3588
A:0.1813	A:0.0363	A:0.3386
AAACAAAC:0.3103		

VEP annotated somatic variants

-:0.0014	-:0	-:0.0014
A:0.0964	A:0.0643	A:0.2061
A:0.1076	A:0.0885	A:0.2176
G:0.0036		
G:0.1979	G:0.2685	G:0.1556
C:0.3662	C:0.3094	C:0.2911
G:0.3051	G:0.2882	G:0.2882
A:0.3586	A:0.5461	A:0.3429
G:0.1308	G:0.2352	G:0.0735
T:0.4040	C:0.5454	C:0.5418
G:0.1408	G:0.0333	G:0.232
A:0.1196	A:0.0129	A:0.1628
A:0.2027	A:0.0998	A:0.134
G:0.0118	G:0	G:0
A:0.0118	A:0	A:0
C:0.0136	C:0.0068	C:0
GC:0.0118	GC:0	GC:0
C:0.4866	C:0.4932	C:0.4841
C:0.4868	G:0.6301	G:0.4424
G:0.2967	G:0.553	G:0.2075
A:0.2075	A:0.177	A:0.2522
A:0.0305	G:0.7352	G:0.7262
A:0.4830	A:0.7118	A:0.3271
G:0.4141	A:0.7254	A:0.5461
TTCCACG:0.0152	TTCCACG:0.0008	TTCCACG:0.0231
G:0.2504	G:0.3192	G:0.2349
G:0.3309	G:0.708	G:0.183
A:0.3646	A:0.6475	A:0.4683
C:0.2037	A:0.7337	A:0.8487
C:0.2230	C:0.0802	C:0.2248
G:0.3892	-:0.2965	-:0.6844
T:0.0004	T:0	T:0
4,hmmpanther:PTHR13948		
A:0.4625	A:0.5628	A:0.3674
T:0.2863	T:0.2708	T:0.1945
C:0.1504	C:0.0998	C:0.1859
G:0.2554	G:0.0469	G:0.2464
-:0.2496	-:0.025	-:0.2363
G:0.2402	G:0.4455	G:0.1297
GGGGATTA:0.0917	GGGGATTA:0.0893	GGGGATTA:0.1239
G:0.1028	G:0.0522	G:0.1383
C:0.4904	C:0.174	C:0.585
A:0.4902	A:0.174	A:0.585
T:0.3690	C:0.7988	C:0.5591
T:0.2135	T:0.0159	T:0.2795
C:0.4046	C:0.2148	C:0.428
A:0.1368	A:0.1225	A:0.1671
T:0.4455	T:0.2799	T:0.4654
-:0.2997	AA:0.6331	AA:0.7147
C:0.1743	T:0.9145	T:0.7839
T:0.0929	T:0.1694	T:0.0764
panther:PTHR24141,SMART_domains:SM00248,Superfamily_domains:SSF48403		



VEP annotated somatic variants

T:0.3423	T:0.2201	T:0.2911
-:0.3185	-:0.1876	-:0.4568
A:0.0048	A:0	A:0.0072
C:0.3353	C:0.1861	C:0.3977
A:0.2939	A:0.0363	A:0.3847
T:0.3998	T:0.2035	T:0.5634
A:0.1040	A:0.084	A:0.1153
C:0.4415	G:0.6762	G:0.5677
T:0.0036	T:0	T:0.0072
A:0.4730	C:0.4788	C:0.598
G:0.3788	A:0.6127	A:0.5663
A:0.3628	C:0.7133	C:0.6095
A:0.4687	A:0.2769	A:0.4308
T:0.2310	T:0.028	T:0.2406
A:0.2746	A:0.1407	A:0.4813
C:0.2025	C:0.0734	C:0.3055
T:0.2997	T:0.1884	T:0.4121
T:0.3030	T:0.0726	T:0.3718
G:0.1989	G:0.1884	G:0.2723
T:0.2492	T:0.1634	T:0.2925
T:0.2454	T:0.1536	T:0.2911
G:0.3592	A:0.4244	A:0.7219
G:0.3538	A:0.4251	A:0.7291
G:0.2853	G:0.4909	G:0.2723
C:0.1809	C:0.3434	C:0.1859
T:0.2630	C:0.4221	C:0.879
T:0.4964	T:0.4145	T:0.4769
A:0.0044		
C:0.1831	C:0.1914	C:0.2291
A:0.4830	A:0.1876	A:0.5735
T:0.4493	T:0.4826,T:0.4826	T:0.3357,T:0.3357
A:0.1867	A:0.1059,A:0.1059	A:0.1902,A:0.1902
T:0.0058	T:0.0182	T:0.0043
T:0.4435	A:0.4697	A:0.7421
T:0.2931	T:0.0507	T:0.5245
A:0.1378	A:0.0628	A:0.0735
G:0.0296	G:0.0076	G:0.0403
C:0.2628	C:0.0741	C:0.4553
A:0.4990	G:0.4909	G:0.5389
A:0.2548	A:0.1846	A:0.3055
T:0.4519	T:0.5416	T:0.3199
T:0.1044	T:0.0575	T:0.147
G:0.4030	G:0.5681	G:0.3934
A:0.2927	A:0.5719	A:0.2464
A:0.4509	A:0.6906	A:0.4193
A:0.1408	C:0.8306	C:0.915
C:0.2672	T:0.6891	T:0.6744
A:0.1128	G:0.8979	G:0.8804

VEP annotated somatic variants

A:0.0986	T:0.9539	T:0.8862
T:0.1134	T:0.1815	T:0.085
C:0.4211	C:0.7534	C:0.4006
T:0.0002	T:0	T:0.0014
A:0.0028	A:0	A:0.0029
A:0.1959	A:0.0893	A:0.2305
G:0.1154	G:0.1225	G:0.1628
A:0.2492	A:0.0144	A:0.3487
-:0.1835	-:0.1944	-:0.183
G:0.2009	G:0.2542	G:0.1902
G:0.1853	G:0.1997	G:0.1844
T:0.1937	T:0.23	T:0.1859
T:0.0082	T:0.0038	T:0.0086
C:0.0481	C:0.1097	C:0.0562
G:0.0549	G:0.0257	G:0.0634
A:0.0361	A:0.0053	A:0.036
C:0.4898	C:0.2519	C:0.5793
C:0.4952	G:0.3313	G:0.5706
G:0.1893	G:0.3457	G:0.134
A:0.2600	A:0.3472	A:0.3876
C:0.2496	C:0.3192	C:0.281
G:0.4581	C:0.8797	C:0.4914

C:0.0433	C:0.0129	C:0.0793
A:0.4714	A:0.2874	A:0.4135
A:0.0014	A:0	A:0.0014
-:0.3105	-:0.3026	-:0.3084
T:0.4355	C:0.5371	C:0.3458
G:0.3470	C:0.7995	C:0.3919
A:0.0146	A:0.0038	A:0.0187
A:0.3423	A:0.6929	A:0.2839
C:0.1356	C:0.0643	C:0.1628
T:0.1232	T:0.0136	T:0.3646
T:0.1248	T:0.0159	T:0.3646
T:0.4750	T:0.1195	T:0.6441
T:0.0003	T:0	T:0.0014
C:0.4355	T:0.5477	T:0.7219

C:0.1721	C:0.0522	C:0.1729
C:0.0933	C:0.0469	C:0.1657
T:0.0403	T:0.003	T:0.0562

THR10361:SF20

C:0.0988	C:0.118	C:0.1268
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G:0.1414	G:0.0628	G:0.1297
T:0.3362	C:0.531	C:0.3084
T:0.1238	T:0.0106	T:0.1066
A:0.1254	A:0.0106	A:0.1052
C:0.4862	C:0.3434	C:0.3285

T:0.1430	C:0.8691	C:0.8184
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T:0.0565	T:0.0893	T:0.0245
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VEP annotated somatic variants

T:0.0331	T:0.0061	T:0.0144
T:0.0090	T:0.003	T:0.0144
C:0.3560	C:0.3616	C:0.3761
T:0.2833	T:0.2632	T:0.2349
A:0.3059	A:0.0908	A:0.5
G:0.2380	A:0.8464	A:0.8127
A:0.3858	A:0.2738	A:0.3516
A:0.3339	G:0.9486	G:0.5173
G:0.1028	G:0.0545	G:0.1066
A:0.2967	A:0.3464	A:0.1801
A:0.1266	A:0.0643	A:0.1153
G:0.1601	G:0.2163	G:0.1902
G:0.1391	G:0.0809	G:0.1787
T:0.3051	T:0.3396	T:0.2248
G:0.2037	T:0.6717	T:0.8602
A:0.1565	A:0.2761	A:0.1268
T:0.3938	T:0.1157	T:0.5533
A:0.1046	A:0.1331	A:0.0778
C:0.2331	G:0.7428	G:0.5101
C:0.4495	T:0.8472	T:0.3905
A:0.2171	A:0.0076	A:0.3718
A:0.0535	A:0.0091	A:0.1427
T:0.0214	T:0.0643	T:0.013
A:0.3343	A:0.1324	A:0.5144
A:0.4361	G:0.6906	G:0.5072
A:0.1318	A:0.0749	A:0.0461
T:0.2363		
G:0.4976	G:0.1112	G:0.5648
HR19897:SF156		
C:0.0178	C:0.0015	C:0.0288
T:0.1442	T:0.2201	T:0.1585
A:0.0725	A:0.0091	A:0.0821
G:0.0032	G:0.0008	G:0.0058
T:0.1452	T:0.1324	T:0.1383
T:0.3896	T:0.525	T:0.3703
C:0.4629	C:0.7481	C:0.3833
T:0.0080	T:0.0008	T:0.0216
A:0.2190	G:0.6657	G:0.8184
C:0.3538	C:0.4168	C:0.3804
T:0.1260	T:0.1135	T:0.1628
G:0.0004	G:0	G:0.0014

VEP annotated somatic variants

G:0.2404	G:0.2352	G:0.2032
T:0.3139	C:0.8449	C:0.598
A:0.4121	A:0.3843	A:0.4654
T:0.2690	T:0.3873	T:0.1902
G:0.2979	G:0.1921	G:0.3357
G:0.1148	G:0.025	G:0.1585
C:0.0637	C:0.1475	C:0.0591
T:0.4014	C:0.3457	C:0.7032
C:0.1460	C:0.0106	C:0.1239
G:0.3540	A:0.767	A:0.5965
A:0.4952	A:0.621	A:0.4006
T:0.4954	T:0.6218	T:0.4006
G:0.3860	G:0.8192	G:0.183
G:0.2538	G:0.3313	G:0.183
C:0.3580	C:0.2905	C:0.232
C:0.1090	C:0.2542	C:0.1138
C:0.0160	C:0.0015	C:0.0303
T:0.0663	T:0.0923	T:0.049
T:0.1344	T:0.1921	T:0.196
C:0.2572	C:0.0908	C:0.3876
A:0.2181	A:0.0552	A:0.2507
C:0.3512	T:0.7693	T:0.598
A:0.1699	A:0.1331	A:0.196
C:0.3139	C:0.3381	C:0.1888
T:0.2067	T:0.1543	T:0.2983
A:0.0094	A:0.0068	A:0.0086
T:0.2500	T:0.2163	T:0.2464
C:0.2538	C:0.2383	C:0.2464
G:0.4038	A:0.3737	A:0.4207
T:0.3233	T:0.3638	T:0.2233
T:0.0030	T:0.003	T:0.0043
T:0.1919	T:0.1165	T:0.2594
C:0.2678	C:0.2103	C:0.3112
A:0.0990	A:0.1097	A:0.0807
C:0.1036	C:0.1309	C:0.0951
her:PTHR15141		
T:0.3652	T:0.2617	T:0.2291
T:0.1136	T:0.1649	T:0.1945
T:0.3514	T:0.3631	T:0.3646
G:0.2416	G:0.0295	G:0.3343
T:0.1328	T:0.0386	T:0.1816
C:0.0082	C:0.0015	C:0.0072
A:0.2548	A:0.0469	A:0.3141
C:0.3281	T:0.6846	T:0.7104
T:0.0032	T:0	T:0
A:0.1807	A:0.1014	A:0.1988
A:0.3834	G:0.4077	G:0.67

VEP annotated somatic variants

G:0.2726	A:0.7012	A:0.5994
A:0.4651	G:0.9682	G:0.3429
A:0.1843	A:0.2927	A:0.1715
-:0.2590	-:0.3555	-:0.1527
C:0.4716	C:0.4902	C:0.3775
A:0.0048	A:0.0015	A:0.0043
A:0.2776	A:0.1573	A:0.33
C:0.0012	C:0	C:0.0029
T:0.4365	T:0.2133	T:0.4207
T:0.3626	T:0.2284	T:0.4726
C:0.3822	C:0.2995	C:0.4741
G:0.1647	G:0.1906	G:0.0591
C:0.1565	C:0.1755	C:0.1282
G:0.1673	G:0.1914	G:0.1427
A:0.1530	A:0.1611	A:0.1282
-:0.0102	-:0.0008	-:0.0086
G:0.0104	G:0.0015	G:0.0101
A:0.1404	A:0.0234	A:0.2017
A:0.4559	A:0.4009	A:0.4798
C:0.1683	C:0.2005	C:0.2046
C:0.3521	C:0.0197	C:0.2089
G:0.0004	G:0	G:0
T:0.2412	T:0.053	T:0.17
A:0.4665	C:0.1067	C:0.5706
T:0.3291	T:0.1974	T:0.5
G:0.2552	G:0.2489	G:0.2536
A:0.3450	A:0.3638	A:0.3228
T:0.2768	T:0.1248	T:0.2954
G:0.4742	C:0.9728	C:0.3285
T:0.4736	G:0.9584	G:0.3285
G:0.1368	G:0.1974	G:0.1052
T:0.1236	T:0.0091	T:0.2277
A:0.2819	G:0.9266	G:0.6988
T:0.2786	C:0.9266	C:0.6988
T:0.1008		
T:0.1869	T:0.0091	T:0.2017
C:0.1873	C:0.0091	C:0.2017
T:0.0505	T:0.003	T:0.0548
T:0.4448	C:0.5287	C:0.2781
T:0.1492	T:0.0204	T:0.2752
A:0.3119	A:0.2201	A:0.3112
A:0.4299	A:0.1611	A:0.5576
T:0.0178	T:0.0023	T:0.049
G:0.0060	G:0	G:0.0072
A:0.2945	T:0.7224	T:0.5865

VEP annotated somatic variants

-:0.1911	ACACAGGTGTTTT:0.92CACACAGGTGTTTT:0.67		C,
C:0.3934	C:0.6974	C:0.3761	
T:0.0008	T:0.0015	T:0	
C:0.0018	C:0	C:0.0043	
C:0.1611	C:0.1732	C:0.0562	
T:0.1743	T:0.1649	T:0.134	
C:0.3413	C:0.2179	C:0.3228	
A:0.0393	A:0.0061	A:0.0692	
G:0.3287	G:0.031	G:0.4669	
G:0.1352	G:0.2337	G:0.0937	
A:0.1388	A:0.2337	A:0.0965	
G:0.3183	G:0.2103	G:0.3184	
T:0.0532	T:0.003	T:0.0562	
A:0.2665	G:0.5741	G:0.5706	
A:0.2159	A:0.2867	A:0.1527	
C:0.2712	C:0.3275	C:0.1859	
C:0.3351	C:0.3646	C:0.2867	
A:0.4924	A:0.6853	A:0.5173	
T:0.0004	T:0	T:0.0014	
T:0.2554	T:0.0242	T:0.4669	
C:0.4970	C:0.6346	C:0.5821	
C:0.4295	C:0.3979	C:0.5836	
A:0.4189	G:0.8116	G:0.6599	
C:0.3067	C:0.0991	C:0.513	
T:0.1482	T:0.0772	T:0.2363	
G:0.0559	G:0.0295	G:0.0648	
G:0.0280	G:0.003	G:0.0274	
G:0.1789	G:0.1929	G:0.0447	
T:0.0018	T:0	T:0.0029	
A:0.3946	G:0.7844	G:0.5288	
C:0.4768	C:0.6974	C:0.3977	
G:0.1761	G:0.031	G:0.1369	
A:0.2831	A:0.3306	A:0.3199	
T:0.4904	C:0.8253	C:0.3934	
C:0.1691	C:0.239	C:0.1167	
A:0.2728	A:0.3631	A:0.366	
T:0.2873	T:0.0582	T:0.2176	
A:0.3311	A:0.6263	A:0.2853	
T:0.3187	G:0.2806	G:0.8098	
C:0.3966	T:0.6445	T:0.7003	
A:0.3578	A:0.3253	A:0.4236	
C:0.3810	T:0.5416	T:0.7133	
G:0.0004	G:0	G:0	
A:0.0242	A:0.003	A:0.0317	
A:0.0066	A:0.0008	A:0	
T:0.0090	T:0	T:0.0115	
T:0.2206	C:0.9766	C:0.7709	

VEP annotated somatic variants

39,Pfam\_domain:PF00443,Superfamily\_domains:SSF54001

HR24006:SF403

G:0.3618	G:0.6301	G:0.3184
G:0.0551	G:0.0492	G:0.0591
T:0.1542		
C:0.2328	T:0.7292	T:0.7752
A:0.2256	A:0.0961	A:0.2911

F27,Prints\_domain:PR01155

G:0.0176	G:0.0635	G:0.0043
T:0.1386	T:0.1634	T:0.1671
G:0.2574	G:0.0764	G:0.3674
T:0.4189	A:0.4629	A:0.6124
C:0.4810	C:0.3306	C:0.5634
T:0.3954	T:0.4289	T:0.4366
A:0.3229	A:0.171	A:0.4063
T:0.3934	T:0.4297	T:0.4337
G:0.3235	A:0.8752	A:0.6657
C:0.3552	T:0.8427	T:0.6297
G:0.4625	G:0.3676	G:0.6239
A:0.0054	A:0	A:0.0086
T:0.0010	T:0	T:0.0014
A:0.0058	A:0.0008	A:0.0173
C:0.1164	C:0.0076	C:0.098

city\_(Seg):seg

C:0.2282	C:0.3041	C:0.1412
A:0.3560	A:0.3525	A:0.255
A:0.0745	A:0.0166	A:0.0533
G:0.4834	G:0.5371	G:0.4438
C:0.1863	C:0.2012	C:0.1873
G:0.1707	G:0.0408	G:0.2421
T:0.1562	T:0.1702	T:0.1772
C:0.3067	C:0.5038	C:0.2608
T:0.0863	T:0.0227	T:0.0144
T:0.0960	T:0.1551	T:0.098
A:0.0016	A:0	A:0
C:0.3562	C:0.3805	C:0.5259
A:0.0026	A:0.0015	A:0.0014
C:0.3906	C:0.6354	C:0.4222
C:0.3213	C:0.4047	C:0.255
C:0.2829	T:0.8147	T:0.6772
G:0.3385	G:0.1581	G:0.3026
T:0.4684	C:0.8041	C:0.3631
T:0.4239	T:0.3517	T:0.5447
G:0.0954	G:0.2943	G:0.0461
G:0.3299	G:0.1467	G:0.3847
A:0.2548	G:0.9713	G:0.6599
A:0.3091	A:0.0734	A:0.3775
T:0.0455	T:0.0045	T:0.0807

VEP annotated somatic variants

G:0.0101	G:0	G:0.0072
G:0.0002	G:0	G:0
G:0.4860	A:0.3684	A:0.5677
C:0.3057	T:0.8979	T:0.7435
C:0.1404	C:0.3192	C:0.0648
G:0.3838	G:0.7814	G:0.4035
T:0.1919	T:0.1475	T:0.1801
C:0.3442	C:0.0946	C:0.2939
G:0.3101	G:0.2564	G:0.3761
A:0.0705	A:0.0076	A:0.0807
G:0.3889	A:0.5772	A:0.451
C:0.2779	T:0.6604	T:0.5692
C:0.0813	C:0.0424	C:0.0951
T:0.1356	T:0.0106	T:0.1527
A:0.2518	A:0.2799	A:0.3818
A:0.3662	G:0.8585	G:0.4769
T:0.4395	G:0.7587	G:0.4697
G:0.2891	G:0.3835	G:0.3112
T:0.1468	T:0.0197	T:0.1801
T:0.4105	C:0.6589	C:0.5519
C:0.1460	C:0.1778	C:0.1153
A:0.3784	A:0.3775	A:0.3602
T:0.1270	T:0.0061	T:0.2176
G:0.4571	A:0.7587	A:0.4438
-:0.2244	AAGT:0.9319	AAGT:0.6772
T:0.4413	T:0.6331	T:0.3689
G:0.3277	A:0.7927	A:0.5893
T:0.3790	C:0.7436	C:0.562
T:0.4918	T:0.1377,T:0.1377	T:0.5692,T:0.5692
T:0.1481	T:0.0166	T:0.1772
C:0.0030	C:0.0008	C:0.0058
4377,hmmpanther:PTHR24377:SF236,SMART_domains:SM00355,Superfamily_domains:SSF57667		
T:0.2682	T:0.0734	T:0.2594
C:0.3067	T:0.8359	T:0.8213
C:0.3448	C:0.6445	C:0.2925
T:0.4647	T:0.7806	T:0.4078



VEP annotated somatic variants

EAS_MAF	EUR_MAF	SAS_MAF	AA_MAF
C:0.001 C:0.6042	C:0.0517 C:0.4811	C:0.0102 C:0.635	C:0.0075  G:0.4163
G:0.4692 G:0.3185 G:0.3403	G:0.6849 G:0.6153 G:0.6849	G:0.6687 G:0.5992 G:0.6166	G:0.2861 G:0.7435
T:0.0873	T:0.2704	T:0.2924	T:0.6832 GAGCGGGCGA:0.5586
A:0.1488 C:0.87 T:0.001	A:0.2237 C:0.832 T:0.0408	A:0.1472 C:0.7699 T:0.0327	A:0.1083  T:0.0047
G:0.0228 T:0 C:0.005	G:0.325 T:0.0278 C:0.1163	G:0.2076 T:0.0164 C:0.1922	G:0.5419
A:0.0506 A:0.5357 A:0.0258 T:0.0099 T:0.0754	A:0.0378 A:0.6421 A:0.4095 T:0.0895 T:0.5417	A:0.136 A:0.6871 A:0.2556 T:0.0358 T:0.2035	A:0.4439 A:0.2434
T:0.002 ATAA:0.0218 A:0.1637 G:0.4256	T:0.1928 ATAA:0.5099 A:0.2614 G:0.5109	T:0.1329 ATAA:0.3292 A:0.2157 G:0.4785	T:0.204  A:0.0602 G:0.4133
T:0.8909 G:0.0843 G:0.2827 -:0.0327 G:0.001 C:0.1071 C:0.6002 A:0 G:0.002 C:0.377 T:0.6865 C:0 A:0.1508 C:0.499 T:0.4464 T:0.2639 T:0,T:0 T:0.1002 C:0.256 T:0.1617 G:0.1617 T:0.9464	T:0.5875 G:0.007 G:0.1461 -:0.0577 G:0.1402 C:0.2097 C:0.6083 A:0.0408 G:0.0716 C:0.4205 T:0.492 C:0.0467 A:0.338 C:0.1113 T:0.833 T:0.3022 T:0.0189,T:0.0189 T:0.2555 C:0.2724 T:0.3857 G:0.3867 T:0.7137	T:0.7771 G:0.0245 G:0.2106 -:0.0746 G:0.0164 C:0.3804 C:0.4571 A:0.0082 G:0.0092 C:0.3947 T:0.5051 C:0.001 A:0.2812 C:0.3681 T:0.5603 T:0.136 T:0,T:0 T:0.1595 C:0.1646 T:0.41 G:0.41 T:0.8047	T:0.5962 G:0.1155 G:0.2069  C:0.6332 C:0.554 A:0.0052  C:0.3988 T:0.2158  C:0.2556 T:0.8201 T:0.1676 T:0.0068,T:0.0068 T:0.0488  T:0.4788  T:0.8266

VEP annotated somatic variants

A:0.005	A:0.3191	A:0.1053	A:0.2068
A:0.499	A:0.16	A:0.1329	A:0.0458
T:0.0992	T:0.1978	T:0.1943	
C:0.4851	C:0.2992	C:0.4581	
T:0.1101	T:0.0845	T:0.089	T:0.064
C:0.5665	C:0.5298	C:0.7628	
G:0.6736	G:0.7356	G:0.8415	G:0.9027
T:0.1587	T:0.2256	T:0.1861	
G:0.0784	G:0.2922	G:0.3006	G:0.1207
-:0.2173	-:0.1988	-:0.1166	-:0.4492
A:0.4841	A:0.1441	A:0.2311	A:0.2757
A:0.0089	A:0.1233	A:0.1483	
C:0.2103	C:0.2048	C:0.1902	
C:0.9891	C:0.8101	C:0.8885	C:0.8639
G:0.5645	G:0.0885	G:0.2249	G:0.2511
A:0	A:0.1133	A:0.0184	A:0.0261
T:0.0357	T:0.0656	T:0.0194	T:0.0096
T:0	T:0.0408	T:0.0112	T:0.0072
C:0.2976	C:0.173	C:0.0685	
C:0	C:0.003	C:0	C:0.0008
T:0.0813	T:0.172	T:0.0521	
G:0.0357	G:0.3519	G:0.1258	
G:0.0357	G:0.3559	G:0.1278	
G:0.3869	G:0.1918	G:0.3384	
T:0.001	T:0.0298	T:0.0399	T:0.0057
G:0.0605	G:0.0696	G:0.0266	G:0.0132
G:0.0982	G:0.2684	G:0.2791	G:0.4142
C:0.0903	C:0.0765	C:0.1861	C:0.3468
T:0	T:0.0586	T:0.002	T:0.0132
T:0.001	T:0.0517	T:0.093	
A:0.6657	A:0.8698	A:0.8517	
G:0.0208	G:0.1083	G:0.093	
C:0.4206	C:0.2863	C:0.2812	C:0.5241
C:0.6825	C:0.174	C:0.271	C:0.0506
G:0.1677	G:0.3141	G:0.4346	
A:0	A:0.0905	A:0.0133	A:0.0136
T:0.7837	T:0.5308	T:0.5613	T:0.6763
T:0.369	T:0.5437	T:0.3722	
G:0.3631	G:0.5417	G:0.3701	
A:0.3423	A:0.5179	A:0.3016	
T:0.3423	T:0.5179	T:0.3006	
G:0.003	G:0.2137	G:0.1186	G:0.0835
A:0.124	A:0.1799	A:0.1483	
A:0.124	A:0.1829	A:0.1503	A:0.1739
A:0	A:0.0626	A:0.0123	A:0.017
T:0.0853	T:0.2594	T:0.1933	T:0.2736
G:0.002	G:0.2913	G:0.1483	
-:0.002	-:0.0437	-:0.0583	-:0.0265

VEP annotated somatic variants

A:0.7659	A:0.6342	A:0.4918	
T:0.255	T:0.5586	T:0.4264	T:0.3626
A:0.6081	A:0.3579	A:0.2393	A:0.2215
G:0.6429	G:0.3598	G:0.2515	G:0.3447
C:0.4018	C:0.0795	C:0.4622	
A:0.9861	A:0.5845	A:0.6534	A:0.781
G:0.0169	G:0.1372	G:0.1933	G:0.2964
C:0	C:0.0487	C:0.0072	C:0.0254
A:0.0357	A:0.2505	A:0.135	
A:0	A:0.0398	A:0.0123	A:0.0565
T:0.0615	T:0.0934	T:0.0736	T:0.0222
G:0.7054	G:0.3529	G:0.2761	G:0.2787
G:0.0863	G:0.0775	G:0.0665	G:0.1491
T:0.1984	T:0.2584	T:0.2464	
A:0.2431	A:0.1759	A:0.2587	A:0.357
A:0.004	A:0.2734	A:0.1769	
A:0.0972	A:0.3022	A:0.228	A:0.2047
G:0.3145	G:0.4821	G:0.3067	G:0.4678
T:0.3075	T:0.2624	T:0.5215	T:0.2139
T:0.7579	T:0.6958	T:0.7331	T:0.9664
G:0.38	G:0.2823	G:0.3916	G:0.1713
C:0.0526	C:0.2783	C:0.1871	C:0.2803
C:0.1597	C:0.3857	C:0.3272	
A:0.505	A:0.7783	A:0.7157	A:0.8772
T:0.122	T:0.2594	T:0.1186	
A:0.6597	A:0.3191	A:0.4601	A:0.5626
G:0.0466	G:0.1362	G:0.1431	G:0.0395
C:0	C:0.0736	C:0.0143	
T:0.001	T:0.1471	T:0.044	T:0.2276
T:0.001	T:0.0825	T:0.0204	
A:0.0377	A:0.4523	A:0.2035	
G:0	G:0.0507	G:0.0389	G:0.0113
A:0.1032	A:0.3221	A:0.2802	
T:0	T:0.002	T:0	T:0.0023
T:0.371	T:0.3598	T:0.499	
T:0.372	T:0.2744	T:0.4693	
C:0.371	C:0.3579	C:0.4969	
T:0.0794	T:0.1938	T:0.1452	
T:0.001	T:0.1491	T:0.0215	T:0.0361
A:0.0367	A:0.3171	A:0.1769	A:0.3034
G:0.0367	G:0.0447	G:0.0644	G:0.0484
C:0.2302	C:0.1153	C:0.2883	C:0.1359
T:0.2302	T:0.1103	T:0.2689	
T:0.2639	T:0.1541	T:0.2648	
A:0.1687	A:0.1044	A:0.1401	A:0.0263
T:0.7659	T:0.7376	T:0.593	T:0.5134
G:0.249	G:0.33	G:0.2423	G:0.3058

VEP annotated somatic variants

C:0.4127	C:0.333	C:0.3384	C:0.1727
A:0.5228	A:0.5378	A:0.6595	
A:0.0694	A:0.16	A:0.3661	
C:0.001	C:0.0746	C:0.0082	C:0.0104
T:0.248	T:0.4145	T:0.4877	
-:0.0823	-:0.1431	-:0.2413	-:0.2603
-:0.0188	-:0.0109	-:0.0808	
A:0.0585	A:0.0964	A:0.0256	A:0.1207
C:0.6944	C:0.3022	C:0.318	C:0.6825
C:0.9911	C:0.4911	C:0.6258	C:0.5869
C:0.5139	C:0.2803	C:0.4162	C:0.2009
T:0.0853,T:0.0853	T:0.1809,T:0.1809	T:0.2055,T:0.2055	
G:0.373	G:0.0785	G:0.1728	G:0.3842
-:0.0645	-:0.0507	-:0.0624	
C:0	C:0.1789	C:0.1115	
C:0.2659	C:0.1292	C:0.2566	C:0.0622
C:0.5724	C:0.174	C:0.3384	C:0.2953
T:0.8512	T:0.6272	T:0.7209	T:0.7047
G:0.0357	G:0.0875	G:0.1033	G:0.0338
C:0.2431	C:0.1899	C:0.1442	C:0.5738
C:0.3681	C:0.3519	C:0.3272	
T:0	T:0	T:0	
G:0.372	G:0.2266	G:0.4131	
A:0	A:0.0179	A:0.001	A:0.0025
T:0	T:0.002	T:0	T:0.0007
C:0.6538	C:0.1809	C:0.3569	C:0.5432
T:0	T:0.0278	T:0.0112	
G:0.0605	G:0.1203	G:0.1155	G:0.0222
C:0.0347	C:0.1064	C:0.0532	
C:0	C:0.002	C:0	
T:0.0724	T:0.16	T:0.3671	
A:0	A:0.0109	A:0.0072	A:0.0002
A:0.2956	A:0.332	A:0.1513	
T:0.0218	T:0.1849	T:0.2628	T:0.4076
T:0.002	T:0.161	T:0.0245	T:0.0751
T:0.6597	T:0.3698	T:0.5194	
T:0.1657	T:0.3966	T:0.2505	
T:0	T:0.0119	T:0.0041	T:0.0009
C:0.1458	C:0.3201	C:0.3446	C:0.3056
A:0.4851	A:0.34	A:0.3241	A:0.2089
T:0.3978	T:0.3579	T:0.272	
C:0.0893	C:0.1431	C:0.3241	
G:0.3998	G:0.2475	G:0.3885	G:0.1221
T:0.006,T:0.006	T:0.1302,T:0.1302	T:0.0266,T:0.0266	T:0.0266,T:0.0266
T:0	T:0.0258	T:0.001	T:0.0057
-:0.0933	-:0.5229	-:0.2106	-:0.3147
A:0.5367	A:0.2535	A:0.3865	A:0.111

VEP annotated somatic variants

A:0.2133	A:0.2883	A:0.3313	A:0.3586
G:0	G:0.002	G:0	G:0.0008
C:0	C:0.0199	C:0.0204	
G:0	G:0.001	G:0	G:0.0005
T:0.1389	T:0.1829	T:0.1728	
A:0	A:0.1909	A:0.0256	A:0.1748
A:0.0565	A:0.1998	A:0.1401	A:0.095
A:0.2371	A:0.1332	A:0.1861	A:0.1015
T:0.0685	T:0.2097	T:0.2444	
A:0	A:0.1332	A:0.0123	A:0.0282
G:0.4087	G:0.339	G:0.2178	G:0.4655
-:0.0625	-:0.3231	-:0.183	-:0.1313
G:0.4583	G:0.6044	G:0.592	G:0.3745
-:0.1706	-:0.1272	-:0.1718	
C:0.4613	C:0.1322	C:0.2781	C:0.2708
G:0.0099	G:0.2028	G:0.1421	
			-:0.0113
T:0	T:0.001	T:0	
C:0.9464	C:0.3857	C:0.5603	C:0.5809
T:0.3125	T:0.4314	T:0.407	T:0.086
C:0.9554	C:0.6292	C:0.8344	C:0.5676
			T:0.0002
C:0.3879	C:0.2445	C:0.3814	
A:0	A:0.0318	A:0.002	A:0.0052
G:0.1627	G:0.1998	G:0.1687	G:0.2186
G:0	G:0	G:0	
A:0	A:0.0099	A:0	A:0.2109
A:0.3393	A:0.2137	A:0.0695	A:0.1281
G:0.506	G:0.3519	G:0.3067	G:0.5321
A:0	A:0.0258	A:0.0143	
AAG:0.5367	AAG:0.3767	AAG:0.362	
T:0.87	T:0.7117	T:0.6288	
C:0.4256	C:0.165	C:0.1708	
A:0.4444	A:0.1193	A:0.1012	A:0.1244
C:0.4573	C:0.2237	C:0.1779	
C:0.2669	C:0.2833	C:0.2168	C:0.1011
-:0.2034	-:0.1849	-:0.2587	-:0.2486
T:0	T:0.1093	T:0.0654	T:0.0322
T:0	T:0.006	T:0	
C:0.8214	C:0.6899	C:0.6012	
T:0.8313	T:0.6918	T:0.7035	T:0.5849
T:0.9425	T:0.5338	T:0.7147	T:0.597
G:0.375	G:0.2058	G:0.2577	
T:0.9514	T:0.6382	T:0.7127	
A:0.0149	A:0.2525	A:0.2331	A:0.2444
			C:0.0272
A:0.2272	A:0.1223	A:0.1012	

VEP annotated somatic variants

C:0.1935	C:0.2783	C:0.3589	C:0.2074
T:0.0089	T:0.1223	T:0.1513	T:0.0415
C:0.6538	C:0.1839	C:0.3252	
A:0.0992	A:0.0765	A:0.1329	A:0.2705
T:0.3671	T:0.5696	T:0.4376	T:0.4037
A:0.4861	A:0.332	A:0.2434	A:0.1112
T:0.0099	T:0.2982	T:0.181	
C:0.3591	C:0.6551	C:0.6401	C:0.9742
C:0	C:0.0427	C:0.0072	C:0.0082
A:0.006	A:0.0755	A:0.0481	
C:0.0605	C:0.1759	C:0.0368	
G:0.2063	G:0.1481	G:0.2076	G:0.5544
T:0.4494	T:0.1044	T:0.2485	T:0.0372
A:0.876	A:0.9085	A:0.8425	A:0.8239
A:0.4405	A:0.7386	A:0.6145	
A:0.5704	A:0.3211	A:0.4509	A:0.6046
G:0.4048	G:0.4274	G:0.4826	
T:0.0764	T:0.2584	T:0.1748	T:0.0713
A:0.2827	A:0.3469	A:0.3436	
C:0.3085	C:0.4066	C:0.3344	C:0.4092
G:0.2907	G:0.1859	G:0.2464	G:0.1387
G:0.0337	G:0.1014	G:0.1094	
T:0	T:0.005	T:0.001	T:0.0032
G:0.5823	G:0.4215	G:0.7106	G:0.5639
G:0.3105	G:0.2734	G:0.1462	G:0.0924
A:0.4286	A:0.4841	A:0.4796	A:0.5036
C:0.4097	C:0.159	C:0.3446	C:0.2796
A:0.4405	A:0.0268	A:0.1708	A:0.1582
A:0.2401	A:0.3728	A:0.3272	A:0.3487
C:0.4821	C:0.1759	C:0.3088	C:0.2355
C:0.7083	C:0.5	C:0.4499	C:0.3858
G:0.3413	G:0.4026	G:0.3149	G:0.1961
G:0.0119	G:0.2058	G:0.1483	G:0.3992
A:0.0675	A:0.2873	A:0.0992	
G:0.002	G:0.0716	G:0.0491	G:0.0967
A:0.381	A:0.3877	A:0.3313	
G:0	G:0.003	G:0.0256	G:0.0009
C:0.001	C:0	C:0	
A:0.5685	A:0.1491	A:0.2761	
T:0.1875	T:0.1103	T:0.1176	T:0.1936
T:0	T:0.0089	T:0.001	T:0.0023
C:0.6776	C:0.5089	C:0.5082	
T:0.6766	T:0.5099	T:0.5082	
			A:0.3703

VEP annotated somatic variants

G:0.2728	G:0.5209	G:0.4581	G:0.2696
A:0.3988	A:0.499	A:0.4479	A:0.1568
T:0.1319	T:0.2247	T:0.136	
C:0.5149	C:0.2942	C:0.409	C:0.7819
T:0.3145	T:0.2674	T:0.1646	T:0.0579
A:0.0179	A:0.0527	A:0.2219	A:0.012
G:0.3274	G:0.3618	G:0.3292	
G:0	G:0.0139	G:0.0031	G:0.003
G:0.0159	G:0.1531	G:0.228	
T:0.5327	T:0.7137	T:0.7014	T:0.6212
T:0.5317	T:0.7117	T:0.6984	T:0.623
A:0.002	A:0.2227	A:0.0419	A:0.1751
A:0.1042	A:0.0835	A:0.0746	
G:0.0685	G:0.1103	G:0.1667	
T:0.0685	T:0.1093	T:0.1667	
T:0.0109	T:0.2584	T:0.1984	T:0.3442
A:0.5317	A:0.4781	A:0.5562	A:0.7579
A:0.4643	A:0.2416	A:0.2751	A:0.225
C:0.628	C:0.4145	C:0.7065	C:0.7948
G:0.5456	G:0.6819	G:0.5982	G:0.5004
C:0.4692	C:0.3946	C:0.4632	
C:0.131	C:0.1581	C:0.1595	C:0.2472
A:0.13	A:0.1511	A:0.1431	
G:0.0337	G:0.3996	G:0.1626	G:0.1123
A:0.0417	A:0.1451	A:0.1554	A:0.1434
G:0.2202	G:0.2913	G:0.2239	G:0.5116
C:0	C:0.002	C:0	
C:0.8125	C:0.4314	C:0.5757	
T:0	T:0.1431	T:0.0225	T:0.0311
C:0.6548	C:0.6839	C:0.684	
G:0.4573	G:0.2773	G:0.5511	G:0.221
A:0.3442	A:0.3539	A:0.4233	
T:0.3591	T:0.5239	T:0.6104	A:0
TG:0.5238	TG:0.3529	TG:0.3354	T:0.1748
T:0.4256	T:0.3241	T:0.3824	T:0.5225
C:0.3234	C:0.2316	C:0.2331	
G:0.3244	G:0.2256	G:0.2301	
A:0.3244	A:0.2276	A:0.2301	A:0.1437
C:0	C:0.001	C:0	
-:0.3204	-:0.0835	-:0.1155	
G:0.4226	G:0.3847	G:0.4029	G:0.2247
T:0.0337	T:0.336	T:0.2434	
A:0.1657	A:0.1243	A:0.2771	
G:0.0208	G:0.0249	G:0.0593	
G:0.2579	G:0.3847	G:0.4162	
T:0	T:0.003	T:0.001	T:0.0011
T:0.0744	T:0.1431	T:0.0603	

VEP annotated somatic variants

T:0.4355 G:0.125	T:0.2276 G:0.1074	T:0.227 G:0.273	T:0.3743 G:0.0208
G:0.4177 T:0.4415 G:0.4484 G:0.4415 G:0.0079 G:0.0089	G:0.5517 T:0.332 G:0.3598 G:0.332 G:0.0557 G:0.0557	G:0.5665 T:0.4468 G:0.4683 G:0.4468 G:0.0603 G:0.0603	G:0.4508  G:0.1474  G:0.0079
C:0.1806 C:0.0089 A:0.0089	C:0.3429 C:0.0547 A:0.0328	C:0.3088 C:0.0348 A:0.0041	C:0.0842 C:0.0177 A:0.0051
G:0.5863 T:0.3562 A:0.122 C:0.3562 C:0.9018	G:0.3897 T:0.0199 A:0.0189 C:0.2505 C:0.668	G:0.3865 T:0.0419 A:0.1247 C:0.272 C:0.7628	G:0.5079  A:0.2016 C:0.1102 C:0.9206
T:0.0129 A:0.0833 T:0.1855 C:0.1806 A:0.2083 A:0.2331 -:0 A:0.8988 T:0.1081 T:0	T:0.1869 A:0.0457 T:0.2942 C:0.2942 A:0.3002 A:0.2127 -:0.0258 A:0.7485 T:0.1382 T:0.0348	T:0.0716 A:0.0736 T:0.0941 C:0.1002 A:0.1155 A:0.3067 -:0.002 A:0.7137 T:0.1472 T:0.0051	T:0.0983 A:0.0129 T:0.3252 C:0.3213 A:0.732 A:0.1336 -:0.0032 A:0.6947 T:0.1369 T:0.0068
A:0.4107  C:0 A:0.2302 C:0.4385 C:0.0248 A:0.001 C:0.4573 G:0	A:0.5447  C:0.0109 A:0.2495 C:0.2843 C:0.2018 A:0.1024 C:0.5209 G:0.2903	A:0.5051  C:0.0031 A:0.2955 C:0.3333 C:0.1861 A:0.0798 C:0.4335 G:0.1462	C:0 C:0.0055 A:0.1453 C:0.7139 C:0.3831 A:0.0354
A:0 G:0.2698 A:0 T:0.6062	A:0.0785 G:0.4503 A:0.1252 T:0.4682	A:0.0378 G:0.3589 A:0.0409 T:0.6636	A:0.015 G:0.2221 A:0.0302
T:0.5446	T:0.4672	T:0.3732	T:0.0969
T:0.0218 C:0.2649	T:0.3141 C:0.327	T:0.1564 C:0.5838	
G:0 -:0.119 A:0.3948	G:0.0268 -:0.1272 A:0.2773	G:0.0041 -:0.3047 A:0.3528	-:0.1621 A:0.0717



VEP annotated somatic variants

T:0.0149	T:0.2435	T:0.1227	T:0.0505
T:0	T:0.0189	T:0.0051	
G:0.5565	G:0.5895	G:0.68	G:0.8092
T:0.2698	T:0.5328	T:0.1288	T:0.1937
T:0.1002	T:0.2286	T:0.1789	T:0.0713
A:0.3522	A:0.4274	A:0.2914	A:0.4698
T:0.3502	T:0.3608	T:0.2618	T:0.5089
G:0.3492	G:0.3698	G:0.273	G:0.6158
T:0.1181	T:0.4235	T:0.2382	T:0.1395
G:0.7401	G:0.3469	G:0.4601	G:0.6836
T:0.5526	T:0.659	T:0.7914	
G:0.5526	G:0.659	G:0.7904	
C:0.5923	C:0.5795	C:0.502	C:0.8697
C:0.5903	C:0.4702	C:0.4294	C:0.0844
G:0.5913	G:0.4702	G:0.4305	G:0.1035
T:0.0397	T:0.0497	T:0.0634	T:0.0227
G:0.6905	G:0.4394	G:0.4029	
C:0	C:0.0149	C:0.0245	C:0.0041
T:0.1488	T:0.0775	T:0.3037	
T:0	T:0	T:0	
A:0.0278	A:0.0755	A:0.0092	A:0.4409
G:0.1181	G:0.164	G:0.2342	
T:0.001	T:0.0845	T:0.0624	T:0.0815
A:0.3333	A:0.1402	A:0.18	A:0.1707
G:0.8194	G:0.6382	G:0.773	
A:0.5347	A:0.4374	A:0.4785	A:0.1084
A:0.0585	A:0.0885	A:0.0818	A:0.0171
A:0.2887	A:0.5686	A:0.3088	A:0.5089
T:0.131	T:0.1998	T:0.1401	T:0.1417
T:0	T:0.1491	T:0.0767	
T:0.4583	T:0.3618	T:0.7157	T:0.2024
T:0.4732	T:0.3429	T:0.7137	
T:0.004	T:0.2177	T:0.2065	
T:0	T:0.0318	T:0.002	T:0.0052
A:0.2312	A:0.3688	A:0.2618	A:0.475
C:0.001	C:0.1412	C:0.1186	C:0.1432
			C:0.6498
T:0.0327	T:0.0706	T:0.0245	T:0.1484
A:0.2946	A:0.2147	A:0.2863	A:0.5849
G:0.1468	G:0.1968	G:0.0838	G:0.052
G:0.3046	G:0.1829	G:0.2812	G:0.0879
G:0.504	G:0.5199	G:0.499	
A:0.5218	A:0.2724	A:0.4591	A:0.7431
C:0.4504	C:0.5765	C:0.4407	C:0.7354
T:0.1855	T:0.332	T:0.0706	
C:0.0099	C:0.16	C:0.1401	C:0.1049
A:0	A:0.0199	A:0	A:0.0024
A:0.0278	A:0.0915	A:0.0327	A:0.0347

VEP annotated somatic variants

T:0.6319	T:0.3608	T:0.636	
G:0.8552	G:0.6382	G:0.5726	
G:0.001	G:0.0398	G:0.0389	
A:0.6974	A:0.2704	A:0.3456	
G:0.1081	G:0.338	G:0.2791	G:0.1685
A:0.8413	A:0.83	A:0.8834	A:0.7553
G:0.6944	G:0.3002	G:0.4427	G:0.198
T:0	T:0.0338	T:0.0112	T:0.004
G:0.7123	G:0.6779	G:0.7648	G:0.8568
G:0.5446,G:0.5446	G:0.6521,G:0.6521	G:0.6984,G:0.6984	
C:0.7133,C:0.7133	C:0.6779,C:0.6779	C:0.7669,C:0.7669	C:0.8604,C:0.8604
C:0.5754	C:0.4742	C:0.4519	C:0.3695
C:0.4157	C:0.1899	C:0.2454	C:0.1031
T:0.4137	T:0.2286	T:0.2505	
A:0.004	A:0.172	A:0.0706	A:0.0378
A:0.0506	A:0.1859	A:0.0828	A:0.0364
A:0.0506	A:0.1859	A:0.0828	A:0.0531
T:0.0565	T:0.1998	T:0.1421	
T:0	T:0	T:0	T:0.0002
C:0	C:0.1163	C:0.1012	C:0.0191
A:0.4067	A:0.2823	A:0.316	A:0.591
A:0.2589	A:0.2565	A:0.317	A:0.2132
A:0.4097	A:0.2942	A:0.3292	A:0.2908
G:0.0516	G:0.0944	G:0.1851	
A:0	A:0	A:0.001	
T:0.3373	T:0.4722	T:0.3088	
T:0.126	T:0.3022	T:0.1738	
A:0.7778	A:0.4006	A:0.5746	A:0.5499
A:0.4633	A:0.2942	A:0.3855	
A:0.8095	A:0.6769	A:0.5971	A:0.7501
C:0.1835	C:0.2833	C:0.4438	
T:0.3194	T:0.3161	T:0.4622	T:0.1886
T:0.4256	T:0.5139	T:0.547	
T:0.001	T:0.0179	T:0.0348	T:0.005
A:0.0784	A:0.0686	A:0.0092	A:0.016
A:0.6736	A:0.2147	A:0.3763	A:0.5356
A:0	A:0.0119	A:0	A:0.0025
G:0.0208	G:0.2913	G:0.135	
GGTTACCCTA:0.5665	GGTTACCCTA:0.7048	GGTTACCCTA:0.6575	
C:0.251	C:0.2237	C:0.2045	
T:0.1944	T:0.0636	T:0.2055	T:0.0806
:-0.4345	:-0.4304	:-0.5317	:-0.1024
T:0.4355	T:0.4304	T:0.5337	
T:0.6577	T:0.7495	T:0.6237	T:0.5589
G:0.2768	G:0.7724	G:0.5838	G:0.3657
C:0.2698	C:0.2336	C:0.2086	C:0.1484
A:0.122	A:0.3082	A:0.3262	
C:0.6905	C:0.3907	C:0.3967	
G:0.3214	G:0.3608	G:0.3149	C:0.8646

VEP annotated somatic variants

T:0.3284	T:0.3608	T:0.2761	T:0.1759
A:0.001	A:0.3181	A:0.0634	A:0.1897
T:0.2728	T:0.3489	T:0.3088	T:0.1131
T:0.0437	T:0.3469	T:0.318	T:0.2811
T:0.0526	T:0.0954	T:0.0746	
A:0.375	A:0.169	A:0.2781	
T:0	T:0.0169	T:0	T:0.0014
A:0.6776	A:0.3688	A:0.6442	A:0.8349
C:0.2927	C:0.4433	C:0.3027	C:0.2904
C:0.5546	C:0.5706	C:0.5337	C:0.3035
C:0.6667	C:0.5557	C:0.7311	
T:0.1954	T:0.3131	T:0.2014	T:0.2027
T:0.2817	T:0.3887	T:0.4305	T:0.36
-:0.1032	-:0.1213	-:0.2147	
A:0.6994	A:0.5119	A:0.5818	A:0.239
G:0.005	G:0.1551	G:0.0951	
T:0	T:0.0258	T:0.0051	T:0.0059
G:0.25	G:0.3549	G:0.3241	G:0.2268
T:0.1984	T:0.2614	T:0.2209	T:0.1639
G:0.3611	G:0.3777	G:0.228	G:0.4653
T:0.3611	T:0.4225	T:0.2464	T:0.2962
C:0.0397	C:0.0388	C:0.0164	C:0.2422
A:0	A:0.0388	A:0.0143	A:0.1625
T:0	T:0.0388	T:0.0143	
A:0.246	A:0.1223	A:0.1585	
T:0.2411	T:0.1581	T:0.1677	T:0.0556
A:0.245	A:0.1581	A:0.1677	A:0.0554
T:0.1379	T:0.1521	T:0.0675	T:0.0903
G:0.0079	G:0.1471	G:0.0419	G:0.0345
G:0.5397	G:0.2783	G:0.3978	G:0.1534
G:0.4246	G:0.2028	G:0.4233	
C:0.0079	C:0.0746	C:0.1769	C:0.1882
G:0.2331	G:0.2783	G:0.2751	G:0.1113
G:0	G:0.001	G:0.002	G:0.0007
T:0.1121	T:0.3121	T:0.2618	T:0.0615
G:0.4514	G:0.1074	G:0.226	G:0.0592
A:0.2649	A:0.0606	A:0.1728	A:0.0124
A:0.001	A:0.0586	A:0.0031	A:0.0114
A:0	A:0.0109	A:0.0164	A:0.0011
A:0.0069	A:0.4592	A:0.2945	A:0.1568
A:0.1548	A:0.1382	A:0.0798	A:0.0673
A:0.1687	A:0.3539	A:0.2178	A:0.2773
A:0.5833	A:0.4911	A:0.5041	A:0.6714
C:0.7579	C:0.7197	C:0.7342	C:0.992
G:0	G:0.1123	G:0.0235	G:0.0417
A:0.3234	A:0.0954	A:0.0982	A:0.0229
C:0.4841	C:0.2018	C:0.3855	
T:0.6706	T:0.4622	T:0.5654	
T:0.3601	T:0.2495	T:0.1984	T:0.1523
T:0.0913	T:0.1968	T:0.2894	T:0.054
A:0.0069	A:0.0815	A:0.0675	A:0.1058
A:0.1944	A:0.2883	A:0.407	A:0.3125

VEP annotated somatic variants

C:0.255 A:0.2897 G:0.5337	C:0.1252 A:0.0765 G:0.5507	C:0.1155 A:0.2331 G:0.5675	C:0.1953 A:0.1035
A:0.2619 C:0.6538 T:0 A:0.5893 A:0.4911 G:0.244 C:0.1746 A:0.122 A:0.4226 T:0.0169 A:0	A:0.3678 C:0.4891 T:0.0189 A:0.2674 A:0.163 G:0.0437 C:0.3141 A:0.2425 A:0.4881 T:0.3042 A:0.0139	A:0.1278 C:0.5429 T:0.0051 A:0.5 A:0.3047 G:0.047 C:0.4683 A:0.1605 A:0.4417 T:0.184 A:0.001	A:0.0767 C:0.745 A:0.2417 A:0.2506 G:0.1263 C:0.1009 A:0.0043
A:0.7897 A:0.003 T:0.1379 C:0.002 T:0 T:0.7044 T:0.1468 T:0 T:0.001 T:0.001 A:0.496 A:0.5268 C:0.4167	A:0.6252 A:0.2346 T:0.2932 C:0.16 T:0.0308 T:0.5199 T:0.333 T:0.0318 T:0.2107 T:0.2087 A:0.1382 A:0.5905 C:0.336	A:0.7311 A:0.092 T:0.1718 C:0.0654 T:0.0399 T:0.5675 T:0.2495 T:0.0051 T:0.044 T:0.044 A:0.3231 A:0.4898 C:0.5225	A:0.5111 T:0.0842 T:0.1266 T:0.2719 T:0.0404 A:0.5722 C:0.2819
C:0.0357 C:0.9534 A:0 T:0.4524 A:0 A:0.1756 T:0.1766 C:0.3532	C:0.2783 C:0.7117 A:0.0567 T:0.4185 A:0.0388 A:0.0517 T:0.0557 C:0.4632	C:0.1912 C:0.8845 A:0.0082 T:0.5389 A:0.0082 A:0.0481 T:0.047 C:0.3681	C:0.8359 A:0.0123 T:0.7402 A:0.0129 A:0.0613 T:0.0629 C:0.3561
C:0.7123 C:0.7927 T:0.0625 G:0.0288 T:0 C:0.0337 A:0.2599 T:0.5446 T:0.1161 T:0.0526	C:0.3966 C:0.4394 T:0.1133 G:0.172 T:0.002 C:0.0099 A:0.4254 T:0.5895 T:0.161 T:0.1143	C:0.5552 C:0.6135 T:0.0777 G:0.0706 T:0 C:0.0276 A:0.4489 T:0.6748 T:0.2096 T:0.1319	C:0.514 T:0.0481 T:0.0002 C:0.0524 A:0.2421 T:0.7896

VEP annotated somatic variants

A:0.7123	A:0.3956	A:0.3804	A:0.1922
A:0.0367	A:0.1163	A:0.0654	A:0.0288
T:0.2976	T:0.4632	T:0.546	T:0.3411
T:0.1558	T:0.2952	T:0.1687	T:0.1407
A:0.7837	A:0.7087	A:0.6912	A:0.4754
T:0.5248	T:0.6571	T:0.5838	T:0.1652
A:0.2728	A:0.2356	A:0.182	A:0.2499
A:0.001	A:0.0676	A:0.1002	
T:0.0119	T:0.0328	T:0.0327	T:0.0773
C:0.1508	C:0.1083	C:0.0665	C:0.1545
A:0.1429	A:0.1093	A:0.0215	A:0.0164
A:0.3492	A:0.2734	A:0.2423	A:0.2093
C:0.3958	C:0.4294	C:0.3569	C:0.0975
T:0.1438	T:0.2873	T:0.2393	T:0.3155
G:0.4345	G:0.3111	G:0.456	
C:0	C:0.0308	C:0.0307	
G:0.1865	G:0.4334	G:0.3364	
C:0.5933	C:0.7853	C:0.682	C:0.4626
G:0.5754	G:0.333	G:0.5215	G:0.1879
G:0.3909	G:0.1928	G:0.1534	
A:0.3968	A:0.1918	A:0.2127	A:0.1012
A:0.3373	A:0.1968	A:0.2106	
T:0.0179	T:0.2823	T:0.1462	
C:0.5	C:0.3489	C:0.2556	C:0.5364
G:0.002	G:0.2525	G:0.0685	G:0.4368
A:0.2083	A:0.1938	A:0.4233	
A:0.1319	A:0.1292	A:0.3446	A:0.3654
G:0.2093	G:0.1412	G:0.4223	G:0.6142
C:0	C:0.0706	C:0.0061	C:0.122
-:0	-:0.0785	-:0.0184	
			G:0.1121
-:0.9236, -:0.9236	-:0.327, -:0.327	-:0.5297, -:0.5297	
T:0	T:0.007	T:0.002	T:0.0009
T:0.001	T:0.1382	T:0.1104	
T:0	T:0.0219	T:0.0358	T:0.0137
C:0	C:0.0189	C:0.002	
A:0.0486	A:0.2127	A:0.1309	A:0.0942
G:0.3006	G:0.3549	G:0.2331	
T:0.2798	T:0.2853	T:0.2618	T:0.1941
G:0.2589	G:0.2883	G:0.2546	G:0.2077
A:0	A:0.0557	A:0.0061	A:0.0115
G:0.498	G:0.2475	G:0.3436	
A:0.3948	A:0.2893	A:0.3006	A:0.1811
A:0.0933	A:0.0557	A:0.0654	
C:0	C:0.0149	C:0.002	C:0.0027

VEP annotated somatic variants

G:0.4415	G:0.6581	G:0.4816	
C:0.4454	C:0.6581	C:0.4877	C:0.6863
C:0.2361	C:0.1252	C:0.2188	C:0.0273
A:0.2212	A:0.2316	A:0.1769	A:0.3774
C:0.3175	C:0.3032	C:0.136	
T:0.3175	T:0.2584	T:0.1237	T:0.2152
C:0.37	C:0.4046	C:0.455	
G:0.7579	G:0.666	G:0.727	G:0.9207
C:0	C:0.005	C:0.002	C:0.0007
T:0.1944	T:0.5089	T:0.2065	
A:0	A:0.0119	A:0.0031	A:0.0023
A:0	A:0.1402	A:0.0174	A:0.0322
A:0.6141	A:0.5149	A:0.4458	A:0.7102
C:0.4782	C:0.2803	C:0.3037	
T:0.0933	T:0.1839	T:0.2372	
G:0.9375	G:0.7048	G:0.682	G:0.7255
A:0.0694	A:0.1103	A:0.1207	A:0.0256
G:0.3075	G:0.2555	G:0.1616	G:0.13
T:0.3056	T:0.2515	T:0.1595	T:0.0858
-:0.254	-:0.3996	-:0.319	-:0.2863
T:0.003	T:0.1869	T:0.0685	T:0.1423
G:0.1429	G:0.3748	G:0.2362	
A:0.1121	A:0.341	A:0.4325	A:0.1879
A:0.1429	A:0.4195	A:0.4008	A:0.3323
T:0.8224	T:0.3579	T:0.3845	T:0.5733
C:0.3323	C:0.328	C:0.32	C:0.4607
T:0.1716	T:0.168	T:0.2485	T:0.3963
T:0.0179	T:0.2803	T:0.1881	
C:0	C:0.0845	C:0.0266	C:0.015
A:0.0387	A:0.2058	A:0.092	
A:0.0198	A:0.0318	A:0.135	A:0.0563
T:0	T:0.005	T:0	T:0
A:0.3095	A:0.0775	A:0.1554	A:0.0485
G:0.245	G:0.4135	G:0.3446	G:0.4272
G:0.245	G:0.335	G:0.3487	G:0.3861
			T:0.3826
A:0.1815	A:0.008	A:0.0092	A:0.03
A:0.3601	A:0.2913	A:0.4632	
G:0.371	G:0.0895	G:0.1104	G:0.4893
			A:0
A:0	A:0.0368	A:0.0297	A:0.0055
A:0.7232	A:0.1451	A:0.3262	A:0.0837
T:0.3423	T:0.2714	T:0.3129	
T:0.0347	T:0.1074	T:0.1483	T:0.1135
C:0.4692	C:0.3718	C:0.41	C:0.2655

VEP annotated somatic variants

G:0.1458	G:0.1879	G:0.1401	G:0.0447
C:0	C:0.0139	C:0.001	C:0.0007
A:0.6181	A:0.5348	A:0.6319	A:0.629
G:0.8542	G:0.7336	G:0.817	G:0.8447
T:0.6746	T:0.6024	T:0.4162	T:0.1785
T:0.0456	T:0.1958	T:0.1329	
A:0.002	A:0	A:0	
C:0.4157	C:0.2515	C:0.2587	C:0.3509
A:0.2966	A:0.173	A:0.2198	
C:0.7103	C:0.7763	C:0.7832	C:0.8515
C:0.6627	C:0.6998	C:0.7781	C:0.8096
G:0.6458	G:0.7624	G:0.7965	G:0.895
T:0	T:0.0229	T:0.046	T:0.0045
-:0.0516	-:0.0706	-:0.1186	
G:0.1329	G:0.2694	G:0.2229	
A:0.5099	A:0.5129	A:0.5429	
T:0.9861	T:0.7396	T:0.8773	T:0.9446
A:0.628	A:0.5636	A:0.6033	A:0.3747
C:0.628	C:0.5596	C:0.6033	
A:0.5188	A:0.4573	A:0.4039	
A:0.4315	A:0.3052	A:0.3088	A:0.1053
G:0.8244	G:0.3579	G:0.3773	G:0.5411
A:0.1577	A:0.3012	A:0.4346	
A:0.13	A:0.3032	A:0.3057	
A:0.2976	A:0.7256	A:0.6258	A:0.5402
T:0.255	T:0.2505	T:0.2474	T:0.4514
A:0	A:0	A:0	
T:0.3363	T:0.1292	T:0.2699	
A:0.2788	A:0.2485	A:0.2853	A:0.4832
C:0.5923	C:0.327	C:0.3609	C:0.3161
G:0	G:0.004	G:0	
C:0.3621	C:0.2813	C:0.4223	C:0.111
G:0.001	G:0.2893	G:0.1513	
C:0.9107	C:0.6779	C:0.6871	
A:0.5069	A:0.5934	A:0.4468	A:0.4069
T:0.0575	T:0.0706	T:0.0297	T:0.0499
A:0	A:0.001	A:0	A:0
A:0	A:0.0398	A:0.0123	
A:0.4097	A:0.2843	A:0.5102	A:0.3293
T:0.1448	T:0.5288	T:0.4785	
A:0.7202	A:0.339	A:0.456	A:0.1133
G:0	G:0.0189	G:0.002	G:0.0049
G:0.0734	G:0.0507	G:0.0941	G:0.0767
A:0	A:0.0219	A:0.0123	A:0.0064
G:0.1101	G:0.335	G:0.1472	G:0.0672

VEP annotated somatic variants

T:0.3155	T:0.3181	T:0.3252	T:0.1649
A:0.121	A:0.3101	A:0.3037	
C:0.0923	C:0.006	C:0.002	
T:0.5248	T:0.4712	T:0.4387	
G:0	G:0.006	G:0.0092	
G:0.6647	G:0.833	G:0.7914	
T:0.0903	T:0.4891	T:0.3487	T:0.1382
C:0.0069	C:0.0308	C:0.0951	C:0.0073
C:0.8671	C:0.7207	C:0.6984	C:0.8495
C:0.1131	C:0.0865	C:0.1534	
C:0.4891	C:0.329	C:0.4213	C:0.2668
C:0.0903	C:0.1352	C:0.1452	C:0.4694
T:0.6657	T:0.5477	T:0.498	T:0.599
T:0.0397	T:0.1292	T:0.0961	
G:0.2034	G:0.4771	G:0.3006	G:0.1114
A:0.2609	A:0.3489	A:0.1074	A:0.559
C:0.6141	C:0.4543	C:0.5399	C:0.2306
T:0.6766	T:0.6948	T:0.6094	T:0.241
T:0	T:0.0209	T:0.0041	
C:0	C:0.0089	C:0.001	C:0.0035
G:0	G:0.0288	G:0.0143	
-:0.001	-:0.0169	-:0.0031	
C:0.621	C:0.2893	C:0.4857	
C:0.621	C:0.2893	C:0.4847	C:0.4351
G:0.3452	G:0.3032	G:0.1677	G:0.2136
T:0.755	T:0.2634	T:0.4683	T:0.1936
G:0.1042	G:0.0358	G:0.0562	G:0.1221
A:0.3274	A:0.4056	A:0.3712	A:0.32
T:0.1627	T:0.1988	T:0.1564	T:0.0687
A:0.002,A:0.002	A:0,A:0	A:0,A:0	A:0,A:0
C:0.7024	C:0.6064	C:0.5358	C:0.8318
C:0.4792	C:0.3748	C:0.3231	
C:0	C:0	C:0.0031	C:0
C:0	C:0	C:0	C:0
G:0.2589	G:0.4433	G:0.4335	G:0.7572
T:0.0863	T:0.2575	T:0.3456	
T:0.0833	T:0.0616	T:0.0726	T:0.0125
T:0	T:0.2376	T:0.1656	T:0.1642
A:0	A:0.1054	A:0.091	A:0.0194
A:0.371	A:0.2674	A:0.2444	A:0.2553
A:0.5873	A:0.3489	A:0.4509	
T:0.3631	T:0.1909	T:0.2515	T:0.1248
T:0.1062	T:0.1382	T:0.1493	T:0.1498
A:0.5119	A:0.3648	A:0.3395	A:0.6632
A:0.2738	A:0.2197	A:0.1401	
G:0.5099	G:0.3628	G:0.3395	G:0.6454
T:0.001	T:0.0129	T:0.0215	



VEP annotated somatic variants

C:0.0476	C:0.0954	C:0.0256	C:0.0325
C:0.1855	C:0.2594	C:0.1922	C:0.4332
T:0.5248	T:0.3559	T:0.4673	T:0.7642
G:0.3433	G:0.175	G:0.3129	
T:0.0278	T:0.2604	T:0.2904	T:0.4471
A:0.1667	A:0.3708	A:0.3078	A:0.2063
G:0	G:0.0577	G:0.0245	
G:0	G:0.006	G:0.001	G:0.0007
T:0.1597	T:0.1362	T:0.1779	
A:0.7063	A:0.3161	A:0.5481	A:0.8133
T:0.62	T:0.3857	T:0.5521	
A:0.6806	A:0.7117	A:0.8303	A:0.8923
T:0.501	T:0.4642	T:0.6012	
G:0.4157	G:0.328	G:0.5665	G:0.4019
G:0.998	G:0.8032	G:0.9448	G:0.9053
C:0.372	C:0.2863	C:0.5706	C:0.263
G:0.6419	G:0.3797	G:0.3783	G:0.094
A:0	A:0.0099	A:0.0031	A:0.0039
T:0.1101	T:0.0626	T:0.0123	T:0.0105
T:0.0308	T:0.2913	T:0.1534	T:0.1907
T:0.3462	T:0.2485	T:0.4356	
T:0.0565	T:0.2356	T:0.1299	T:0.4256
G:0.4276	G:0.3857	G:0.3098	G:0.1984
T:0.7778	T:0.5835	T:0.7331	T:0.8727
G:0.4266	G:0.3917	G:0.2986	G:0.2177
A:0.5218	A:0.5567	A:0.6176	A:0.4641
GGGAGA:0.4067	GGGAGA:0.2545	GGGAGA:0.4959	GGGAGA:0.2907
C:0.0228	C:0.3111	C:0.2393	C:0.2588
C:0.2262	C:0.164	C:0.0869	
A:0.1706	A:0.163	A:0.0798	
C:0.9931	C:0.5219	C:0.6503	C:0.6186
A:0.7639	A:0.6233	A:0.4315	
G:0.5575	G:0.4781	G:0.4714	G:0.4909
A:0.3135	A:0.5905	A:0.4806	A:0.3805
-:0.6607	-:0.7058	-:0.7689	-:0.4065
T:0.2728	T:0.2883	T:0.2219	T:0.0988
C:0	C:0.2992	C:0.0706	C:0.0649
T:0.001	T:0.1402	T:0.0286	T:0.1441
C:0.0952	C:0.3429	C:0.2096	C:0.6714
A:0.0685	A:0.7594	A:0.4202	A:0.1745
C:0.6667	C:0.3907	C:0.498	
T:0.1587	T:0.0835	T:0.0767	
C:0.6359	C:0.2724	C:0.3507	
C:0.003	C:0.0905	C:0.0235	
G:0.5308	G:0.5427	G:0.4141	G:0.5463
T:0	T:0.003	T:0.0061	T:0.0016
C:0.5675	C:0.3499	C:0.1677	

VEP annotated somatic variants

T:0.0883	T:0.1243	T:0.183	T:0.3044
T:0.001	T:0.0408	T:0.0286	T:0.01
G:0.2897	G:0.5417	G:0.4622	G:0.4703
T:0.8601	T:0.4334	T:0.6278	T:0.7301
G:0.373	G:0.3638	G:0.5	G:0.2478
T:0.371	T:0.3588	T:0.501	T:0.1856
C:0.371	C:0.3579	C:0.501	C:0.1876
A:0.371	A:0.3598	A:0.501	A:0.2293
T:0.0556	T:0.0676	T:0.0736	T:0.0138
T:0	T:0.0109	T:0	T:0.002
A:0	A:0.0139	A:0.0031	A:0.005
A:0.2639	A:0.3936	A:0.3548	A:0.2519
A:0.1518	A:0.5328	A:0.3538	
T:0.3562	T:0.1392	T:0.09	T:0.0506
C:0.378	C:0.8002	C:0.6258	C:0.2276
C:0.5149	C:0.8877	C:0.7014	
T:0.5952	T:0.1938	T:0.3712	T:0.0392
C:0.6746	C:0.3807	C:0.3016	C:0.4934
G:0.252	G:0.2873	G:0.272	G:0.2794
C:0	C:0.002	C:0.0133	C:0.0011
T:0	T:0.0199	T:0.001	T:0.002
G:0.4484	G:0.661	G:0.501	G:0.3978
G:0.0218	G:0.0905	G:0.089	G:0.1622
G:0.378	G:0.333	G:0.4366	G:0.1315
G:0.7232	G:0.4712	G:0.4325	G:0.4165
T:0.4177	T:0.7535	T:0.7689	T:0.8613
A:0	A:0.0109	A:0.001	
G:0	G:0.0169	G:0.002	G:0.0015
			G:0.0008
C:0	C:0.0099	C:0.0041	
T:0.4792	T:0.1252	T:0.3303	T:0.0429
A:0	A:0.0328	A:0.002	A:0.0561
A:0.001	A:0.0268	A:0.0235	A:0.0254
G:0.3244	G:0.2724	G:0.3804	G:0.4003
A:0.254	A:0.2694	A:0.2362	
A:0.0139	A:0.1103	A:0.1452	A:0.0254
G:0	G:0.0258	G:0.0031	G:0.0077
T:0.5437	T:0.3956	T:0.227	
G:0.87	G:0.6561	G:0.8323	
G:0.0089	G:0.1004	G:0.2413	G:0.0704
T:0	T:0.0596	T:0.0164	
G:0.005	G:0.1789	G:0.1247	G:0.1682
G:0.1052	G:0.0656	G:0.092	G:0.2312
G:0.3512	G:0.2177	G:0.4254	G:0.2676

VEP annotated somatic variants

G:0.0506	G:0.2525	G:0.226	
T:0	T:0.006	T:0	
C:0.0179	C:0.0537	C:0.0746	C:0.2394
A:0.6726	A:0.673	A:0.635	
T:0	T:0.0398	T:0.0041	T:0.0077
C:0.1567	C:0.2008	C:0.1708	
A:0.005	A:0.165	A:0.1115	A:0.0449
A:0.0069	A:0.0417	A:0.1299	
T:0.1448	T:0.0358	T:0.1196	T:0.0674
A:0.2272	A:0.2306	A:0.2229	A:0.0454
G:0.8234	G:0.3579	G:0.3793	G:0.4986
-:0.3512	-:0.1312	-:0.1288	
T:0.3512	T:0.1312	T:0.1288	T:0.0697
T:0.8244	T:0.4404	T:0.6871	
A:0.8244	A:0.4404	A:0.6871	A:0.4187
C:0.6468	C:0.5159	C:0.5123	C:0.9413
C:0.0427	C:0.1342	C:0.0368	
T:0.0427	T:0.1352	T:0.0368	
C:0.0427	C:0.1352	C:0.0368	
C:0.4375	C:0.165	C:0.2669	C:0.3301
G:0.2778	G:0.3201	G:0.4018	
A:0	A:0.0149	A:0.0501	A:0.0043
A:0.3581	A:0.2117	A:0.4519	A:0.2113
T:0.8532	T:0.6491	T:0.6718	
G:0.2927	G:0.5427	G:0.5685	
A:0.001	A:0.0596	A:0.0389	T:0.308
T:0.001	T:0.0606	T:0.0327	A:0.0566
T:0.001	T:0.0596	T:0.0389	T:0.0095
A:0.1458	A:0.2565	A:0.2229	T:0.0091
G:0.2004	G:0.332	G:0.2863	A:0.1433
C:0.496	C:0.7942	C:0.7311	G:0.4309
A:0	A:0.0427	A:0.0041	C:0.818
A:0.0913	A:0.1849	A:0.1145	A:0.007
G:0.001	G:0.0944	G:0.0562	A:0.2494
T:0.2123	T:0.0885	T:0.093	
G:0.0962	G:0.172	G:0.2106	G:0.2989
G:0.1052	G:0.1978	G:0.2474	G:0.6416
G:0.001	G:0.0706	G:0.0368	G:0.1068
AGC:0.1458	AGC:0.2396	AGC:0.317	AGC:0.201
G:0.4127	G:0.1093	G:0.2648	G:0.6407
A:0.0903	A:0.168	A:0.0613	A:0.0354
n:TIGR01628			
T:0.001	T:0.0696	T:0.0082	T:0.0141
A:0.3115	A:0.2416	A:0.2853	A:0.1732
A:0	A:0.0129	A:0	A:0.1419
A:0.0198	A:0.0736	A:0.0665	
G:0.2986	G:0.2604	G:0.4693	G:0.3757
A:0.3046	A:0.3867	A:0.2137	A:0.0717

VEP annotated somatic variants

A:0.1756	A:0.1471	A:0.1677	A:0.0649
T:0.1518	T:0.1133	T:0.1656	T:0.1419
G:0	G:0.0179	G:0.001	G:0.0039
G:0	G:0.0924	G:0.0317	
G:0.3581	G:0.0616	G:0.0532	G:0.1516
G:0.0585	G:0.2316	G:0.0982	G:0.2088
A:0.0159	A:0.2187	A:0.1278	
A:0.8343	A:0.3678	A:0.4847	A:0.796
			A:0.0025
T:0.4306	T:0.4722	T:0.5429	T:0.1827
G:0	G:0.0487	G:0.0072	
A:0.2798	A:0.2942	A:0.3579	A:0.2698
			A:0.2401
C:0.1071	C:0.3956	C:0.3067	C:0.3327
C:0.1071	C:0.3966	C:0.3067	C:0.3597
C:0.3988	C:0.6203	C:0.3374	
G:0.4425	G:0.335	G:0.454	G:0.3401
G:0.37	G:0.3062	G:0.4376	G:0.2069
-:0.0278	-:0.5437	-:0.1902	
G:0.2153	G:0.2873	G:0.2198	G:0.1094
G:0.7966	G:0.2038	G:0.5982	
A:0.3442	A:0.1113	A:0.2229	A:0.1448
C:0.3145	C:0.1243	C:0.226	C:0.2524
A:0.1915	A:0.2565	A:0.1431	A:0.3969
G:0.1925	G:0.2545	G:0.1431	G:0.387
G:0.4018	G:0.5646	G:0.3742	
T:0.3343	T:0.3668	T:0.2699	
C:0	C:0.1272	C:0.0665	
T:0.2966	T:0.2227	T:0.2311	T:0.154
G:0.1885	G:0.4672	G:0.272	G:0.3622
T:0.373	T:0.3767	T:0.138	T:0.3118
A:0.0198	A:0.2147	A:0.0869	A:0.254
G:0.3224	G:0.2863	G:0.3967	G:0.271
C:0.3938	C:0.1809	C:0.2229	
G:0.0069	G:0.2694	G:0.0982	G:0.057
G:0.1617	G:0.0845	G:0.0818	G:0.0104
G:0.002	G:0.3052	G:0.1401	G:0.3389
A:0.3383	A:0.2922	A:0.5542	A:0.3395
G:0.5466	G:0.4135	G:0.4489	G:0.4319
A:0.0774	A:0.1173	A:0.0992	A:0.1056
C:0.2579	C:0.495	C:0.4571	C:0.2077
T:0.8373	T:0.3201	T:0.5562	
C:0.0079	C:0.0666	C:0.0409	
T:0.1885	T:0.1143	T:0.1452	T:0.0311
A:0.2004	A:0.0984	A:0.044	A:0.043
G:0.5357	G:0.4573	G:0.4182	G:0.5466

VEP annotated somatic variants

T:0.2123	T:0.2753	T:0.1943	T:0.2088
T:0.2381	T:0.3091	T:0.2474	T:0.3935
C:0.0645	C:0.3419	C:0.362	
G:0.7897	G:0.6292	G:0.6922	G:0.7272
C:0.9871	C:0.7594	C:0.82	
C:0.1429	C:0.4344	C:0.3476	C:0.8228
G:0.1458	G:0.4066	G:0.3344	G:0.1049
A:0.1518	A:0.4314	A:0.3517	
A:0.1419	A:0.4284	A:0.3446	A:0.088
G:0.1508	G:0.4404	G:0.3548	G:0.8202
G:0.1448	G:0.4364	G:0.363	G:0.7332
T:0.246	T:0.2813	T:0.272	T:0.118
C:0.4563	C:0.5119	C:0.544	C:0.5625
G:0.4077	G:0.3996	G:0.4274	
A:0.0823	A:0.162	A:0.2648	
A:0.4107	A:0.5199	A:0.6063	
T:0.2887	T:0.2853	T:0.1207	T:0.2922
T:0.1032	T:0.2565	T:0.2914	T:0.318
C:0.4325	C:0.3509	C:0.4969	C:0.3193
A:0.0129	A:0.2386	A:0.1892	A:0.2716
:-0.1895,-:0.1895	:-0.2227,-:0.2227	:-0.362,-:0.362	
G:0.1627	G:0.1103	G:0.0317	G:0.1712
A:0.1349	A:0.4751	A:0.3405	
C:0.0585	C:0.1958	C:0.1022	
G:0.0258	G:0.1203	G:0.1196	
T:0.2113	T:0.1213	T:0.1595	
C:0.3849	C:0.6282	C:0.5736	C:0.5152
GAACCC:0.3323	GAACCC:0.4036	GAACCC:0.4213	
G:0.4474	G:0.4006	G:0.3569	G:0.2721
A:0.0863	A:0.17	A:0.0634	
C:0.4524	C:0.2644	C:0.2986	C:0.2738
TGTTTTGTTT:0.0268	TGTTTTGTTT:0.2416	TGTTTTGTTT:0.2505	
T:0.5724	T:0.4225	T:0.5675	T:0.5392
A:0.4881	A:0.3867	A:0.3579	A:0.3604
A:0.627	A:0.2724	A:0.3926	
C:0.5764	C:0.4463	C:0.4121	C:0.6384
T:0.5744	T:0.4463	T:0.409	T:0.3737
C:0.5744	C:0.4463	C:0.409	C:0.3786
G:0.2103	G:0.2704	G:0.3865	G:0.446
G:0.4722	G:0.4026	G:0.4836	G:0.5633
G:0.2341	G:0.4573	G:0.2556	G:0.2878
A:0.2202	A:0.2873	A:0.2546	A:0.3214
A:0	A:0.0527	A:0.0072	
A:0	A:0.0258	A:0.0112	A:0.0063
T:0.4375	T:0.2684	T:0.2679	
A:0.251	A:0.2624	A:0.1104	

VEP annotated somatic variants

-:0	-:0.005	-:0.001	
A:0.004	A:0.1103	A:0.1431	A:0.072
A:0.003	A:0.1431	A:0.1268	
			C:0.0094
G:0.1042	G:0.2256	G:0.2004	G:0.2767
C:0.4554	C:0.3986	C:0.3712	
G:0.3036	G:0.4334	G:0.2096	G:0.3367
A:0.1815	A:0.333	A:0.3252	
G:0.1538	G:0.1074	G:0.0307	G:0.1963
C:0.7302	C:0.5706	C:0.591	C:0.5506
G:0.0317	G:0.3111	G:0.1585	
A:0.006	A:0.334	A:0.1299	A:0.0681
A:0.4583	A:0.1451	A:0.1861	
G:0.0496	G:0.005	G:0.0041	
A:0.0496	A:0.005	A:0.0041	
C:0.0496	C:0.005	C:0.0041	C:0.002
GC:0.0496	GC:0.005	GC:0.0041	GC:0
C:0.5476	C:0.4483	C:0.456	C:0.4671
G:0.5615	G:0.2833	G:0.592	G:0.5498
G:0.1667	G:0.1561	G:0.2924	G:0.5082
A:0.1667	A:0.2674	A:0.1973	A:0.1899
G:0.7579	G:0.6998	G:0.7321	G:0.9671
A:0.4742	A:0.3936	A:0.3855	
A:0.6151	A:0.3628	A:0.6247	A:0.6578
TTCCACG:0	TTCCACG:0.0408	TTCCACG:0.0184	
G:0.0744	G:0.3757	G:0.2209	G:0.3484
G:0.0526	G:0.2117	G:0.3354	G:0.5512
A:0.0575	A:0.3767	A:0.2127	A:0.5931
A:0.9484	A:0.7455	A:0.7393	A:0.7486
C:0.2728	C:0.3042	C:0.2802	C:0.1092
-:0.6577	-:0.7048	-:0.8384	-:0.3888
T:0	T:0.002	T:0	T:0
			C:0
			A:0.5572
A:0.2698	A:0.506	A:0.5481	
T:0.2262	T:0.2883	T:0.4325	
C:0.0794	C:0.2704	C:0.1431	
G:0.3075	G:0.3907	G:0.3507	G:0.1019
-:0.2659	-:0.4443	-:0.3456	-:0.0747
G:0.2569	G:0.159	G:0.1074	
GGGGATTA:0	GGGGATTA:0.1909	GGGGATTA:0.0644	GGGGATTA:0.0985
G:0.0486	G:0.1481	G:0.1554	G:0.0679
C:0.746	C:0.5964	C:0.4785	C:0.2549
A:0.746	A:0.5964	A:0.4775	
C:0.5942	C:0.5517	C:0.5746	C:0.7483
T:0.252	T:0.328	T:0.2761	T:0.0717
C:0.4683	C:0.5557	C:0.4233	C:0.2724
A:0.1587	A:0.1402	A:0.1084	
T:0.5933	T:0.4851	T:0.4622	T:0.3071
AA:0.8968	AA:0.6869	AA:0.592	
T:0.9792	T:0.7992	T:0.6043	
T:0.0417	T:0.0775	T:0.0695	T:0.1308

VEP annotated somatic variants

T:0.371	T:0.3588	T:0.4969	
-:0.2202	-:0.3091	-:0.5082	-:0.2133
A:0	A:0.0189	A:0	
C:0.2262	C:0.496	C:0.4397	
A:0.2282	A:0.494	A:0.4397	A:0.1216
T:0.3889	T:0.5268	T:0.4294	T:0.2719
A:0.0437	A:0.169	A:0.1186	
G:0.5913	G:0.4066	G:0.5153	G:0.63
T:0	T:0.0089	T:0.0041	T:0.001
C:0.5625	C:0.5258	C:0.5061	
A:0.8075	A:0.5775	A:0.5245	
C:0.8294	C:0.4284	C:0.5706	
A:0.8938	A:0.3539	A:0.4346	
T:0.2708	T:0.3917	T:0.2924	T:0.081
A:0.2351	A:0.3549	A:0.2669	
C:0.25	C:0.2296	C:0.227	C:0.0993
T:0.119	T:0.493	T:0.3579	T:0.2217
T:0.0089	T:0.5636	T:0.2188	T:0.1627
G:0.0764	G:0.3072	G:0.1759	
T:0.1994	T:0.326	T:0.3067	
T:0.1964	T:0.3241	T:0.3067	T:0.1741
A:0.8353	A:0.6074	A:0.7096	A:0.466
A:0.8353	A:0.6252	A:0.7127	A:0.4687
G:0.0804	G:0.2594	G:0.2546	G:0.443
C:0.0228	C:0.1849	C:0.1166	C:0.2862
C:0.9921	C:0.8082	C:0.726	C:0.4798
T:0.7421	T:0.3519	T:0.5164	T:0.4149
			C:0.0483
C:0.125	C:0.1113	C:0.273	
A:0.6677	A:0.663	A:0.4427	A:0.2665
T:0.4683,T:0.4683	T:0.3419,T:0.3419	T:0.5757,T:0.5757	T:0.4385,T:0.4385
A:0.3115,A:0.3115	A:0.1034,A:0.1034	A:0.2505,A:0.2505	A:0.099,A:0.099
T:0	T:0.002	T:0	T:0.0154
A:0.6458	A:0.5716	A:0.4346	A:0.4582
T:0.2659	T:0.4771	T:0.2955	T:0.1337
A:0.2738	A:0.1014	A:0.182	
G:0.001	G:0.0646	G:0.045	
C:0.1369	C:0.3867	C:0.3834	
G:0.4673	G:0.5577	G:0.4642	G:0.4855
A:0.006	A:0.5368	A:0.2802	A:0.2567
T:0.6944	T:0.2753	T:0.3558	T:0.5354
T:0.001	T:0.2863	T:0.0573	
G:0.244	G:0.4066	G:0.3466	G:0.5282
A:0.2758	A:0.1889	A:0.0726	
A:0.3671	A:0.3748	A:0.3139	A:0.6117
C:0.7321	C:0.9105	C:0.9366	C:0.8338
T:0.8502	T:0.7097	T:0.7362	
G:0.9593	G:0.8738	G:0.817	G:0.8906

VEP annotated somatic variants

T:0.9563	T:0.8738	T:0.8129	T:0.9338
T:0.0446	T:0.1054	T:0.1207	
C:0.1915	C:0.2843	C:0.364	
T:0	T:0	T:0	
A:0	A:0.0089	A:0.0031	
A:0.2252	A:0.2485	A:0.2311	
G:0.1597	G:0.1113	G:0.0307	G:0.1205
A:0.3214	A:0.2783	A:0.3916	A:0.0608
-:0.1319	-:0.1909	-:0.2147	
G:0.131	G:0.1928	G:0.2168	
G:0.1319	G:0.1909	G:0.2157	G:0.1943
T:0.1319	T:0.1928	T:0.2147	T:0.2401
T:0	T:0.0249	T:0.0051	
C:0	C:0.0398	C:0.0174	C:0.1085
G:0.0119	G:0.0984	G:0.0879	G:0.0413
A:0.0109	A:0.1014	A:0.0368	
C:0.7024	C:0.5765	C:0.4397	C:0.3057
G:0.6835	G:0.5726	G:0.4387	G:0.3831
G:0.1369	G:0.1173	G:0.1452	
A:0.0585	A:0.2763	A:0.2423	
C:0.1528	C:0.2366	C:0.2464	C:0.2968
C:0.2411	C:0.503	C:0.4714	
C:0.001	C:0.1233	C:0.0204	C:0.0288
A:0.5813	A:0.4135	A:0.7076	
A:0	A:0.005	A:0.001	A:0.0007
-:0.2986	-:0.341	-:0.3037	
C:0.7629	C:0.4304	C:0.6902	C:0.51
C:0.7629	C:0.4781	C:0.7065	C:0.7471
A:0.001	A:0.0378	A:0.0164	
A:0.2133	A:0.2356	A:0.1524	A:0.6207
C:0.1548	C:0.1998	C:0.1268	C:0.0883
T:0.12	T:0.0964	T:0.1309	
T:0.122	T:0.0954	T:0.135	T:0.032
T:0.5853	T:0.5358	T:0.6595	T:0.2128
T:0	T:0	T:0	
T:0.37	T:0.6272	T:0.6115	
C:0.0417	C:0.3221	C:0.3139	
C:0.005	C:0.1879	C:0.0982	
T:0	T:0.1272	T:0.0317	T:0.03
C:0.001	C:0.1769	C:0.0736	C:0.1176
G:0.1716	G:0.2117	G:0.1524	G:0.0838
C:0.7361	C:0.333	C:0.5245	C:0.6243
T:0.1071	T:0.164	T:0.2648	T:0.0359
A:0.1052	A:0.164	A:0.2761	A:0.037
C:0.6736	C:0.4165	C:0.6697	C:0.3172
C:0.9871	C:0.7425	C:0.8517	C:0.8577
T:0.0159	T:0.0159	T:0.1186	T:0.0688



VEP annotated somatic variants

T:0.0159	T:0.0159	T:0.1186	
T:0	T:0.0249	T:0.0061	
C:0.3095	C:0.2376	C:0.5041	
T:0.1567	T:0.3877	T:0.3681	
A:0.122	A:0.4374	A:0.5133	A:0.1568
A:0.4762	A:0.7594	A:0.909	A:0.84
A:0.5724	A:0.329	A:0.4274	
G:0.4643	G:0.6233	G:0.6421	
G:0.124	G:0.1243	G:0.1217	G:0.0561
A:0.4355	A:0.2604	A:0.2065	A:0.3457
A:0.0149	A:0.1799	A:0.2791	
G:0.0169	G:0.2744	G:0.093	G:0.2122
G:0.0347	G:0.159	G:0.1012	
T:0.3383	T:0.1958	T:0.3937	T:0.3046
T:0.881	T:0.7873	T:0.8415	
A:0.1548	A:0.0845	A:0.092	A:0.214
T:0.4772	T:0.4871	T:0.4744	T:0.1811
A:0.1438	A:0.0606	A:0.09	A:0.1357
G:0.6538	G:0.3549	G:0.5552	G:0.9095
T:0.5278	T:0.3728	T:0.4693	
A:0.375	A:0.2634	A:0.18	A:0.0617
A:0.0109	A:0.1143	A:0.0317	
T:0.0099	T:0.003	T:0	T:0.0606
A:0.3601	A:0.3698	A:0.4162	A:0.1751
G:0.4534	G:0.5477	G:0.5634	G:0.6861
A:0.2847	A:0.0596	A:0.1861	A:0.0769
			T:0.4164
G:0.7679	G:0.6789	G:0.5072	
C:0	C:0.0537	C:0.0133	C:0.0052
T:0.1438	T:0.0437	T:0.135	T:0.1808
A:0.1905	A:0.0517	A:0.0511	
G:0	G:0.0109	G:0	G:0.0018
T:0.2361	T:0.1372	T:0.0818	T:0.1328
T:0.4097	T:0.2932	T:0.2986	T:0.4882
C:0.4256	C:0.3091	C:0.3303	C:0.6664
T:0	T:0.0219	T:0.002	T:0.0036
G:0.8869	G:0.8091	G:0.772	G:0.6893
C:0.37	C:0.3121	C:0.2761	C:0.3924
T:0.005	T:0.2475	T:0.1166	T:0.1416
G:0	G:0.001	G:0	

VEP annotated somatic variants

G:0.3542	G:0.1412	G:0.2587	G:0.2385
C:0.6379	C:0.6421	C:0.6288	C:0.8197
A:0.254	A:0.5567	A:0.4264	A:0.4172
T:0.0565	T:0.341	T:0.3098	
G:0.3403	G:0.1759	G:0.4959	G:0.1852
G:0.0139	G:0.2734	G:0.1462	
C:0.0129	C:0.0447	C:0.0256	
C:0.7917	C:0.6431	C:0.6217	C:0.3799
C:0.1002	C:0.2992	C:0.2342	C:0.0583
A:0.7361	A:0.4821	A:0.593	
A:0.4613	A:0.3887	A:0.5368	
T:0.4613	T:0.3887	T:0.5368	T:0.5808
G:0.2044	G:0.175	G:0.3487	G:0.7084
G:0.1488	G:0.3211	G:0.2382	
C:0.6409	C:0.3181	C:0.2883	
C:0.0466	C:0.0467	C:0.0378	C:0.2044
C:0	C:0.0388	C:0.0184	C:0.0112
T:0.001	T:0.1004	T:0.0757	T:0.1076
T:0.0496	T:0.1342	T:0.1002	T:0.1634
C:0.4196	C:0.2256	C:0.2546	C:0.1221
A:0.5496	A:0.0944	A:0.2004	A:0.0629
T:0.7361	T:0.4821	T:0.6033	
A:0.1478	A:0.2634	A:0.1278	A:0.1577
C:0.2024	C:0.2952	C:0.1084	C:0.4031
T:0.376	T:0.0755	T:0.1728	
A:0	A:0.0179	A:0.0143	A:0.0059
T:0.0536	T:0.4433	T:0.3016	
C:0.0446	C:0.4423	C:0.3016	C:0.2816
A:0.9643	A:0.4304	A:0.8129	A:0.3738
T:0.3046	T:0.3698	T:0.3108	
T:0	T:0.007	T:0.001	T:0.0014
T:0.2103	T:0.2922	T:0.1237	T:0.1406
C:0.0794	C:0.3936	C:0.3793	C:0.2338
A:0.0665	A:0.0915	A:0.1391	A:0.1059
C:0.001	C:0.1332	C:0.0174	C:0.1661
T:0.8403	T:0.1909	T:0.2914	
T:0.002	T:0.1054	T:0.1104	
T:0.3353	T:0.3688	T:0.3252	T:0.3728
G:0.3313	G:0.3022	G:0.3078	G:0.0737
T:0	T:0.3529	T:0.136	
C:0	C:0.0298	C:0.0041	C:0.0064
A:0.2946	A:0.3628	A:0.3415	A:0.0994
T:0.8333	T:0.5328	T:0.6043	T:0.6568
T:0	T:0.004	T:0.0082	T:0.0008
A:0.1944	A:0.2008	A:0.2403	A:0.1194
G:0.5784	G:0.6978	G:0.817	

VEP annotated somatic variants

A:0.5 G:0.4077 A:0.1032 -:0.5079 C:0.5387	A:0.496 G:0.34 A:0.2356 -:0.1133 C:0.4245	A:0.409 G:0.4172 A:0.0777 -:0.0971 C:0.4928	A:0.8986 G:0.8497 A:0.2796  C:0.4641
A:0.002 A:0.4345	A:0.0149 A:0.2694	A:0.002 A:0.2495	A:0.0048 A:0.1761
C:0 T:0.6032	C:0.004 T:0.4642	C:0 T:0.5491	C:0
T:0.255 C:0.256	T:0.4781 C:0.4791	T:0.4581 C:0.4591	T:0.2736
G:0.4325 C:0.0933 G:0.1012 A:0.0933 -:0.001	G:0.0368 C:0.1451 G:0.1531 A:0.1451 -:0.0219	G:0.0603 C:0.228 G:0.2352 A:0.229 -:0.0215	G:0.1847   A:0.1527 -:0.0068
G:0 A:0.0119 A:0.2589 C:0.1389 C:0.498	G:0.0308 A:0.3986 A:0.4821 C:0.2028 C:0.1948	G:0.0123 A:0.1217 A:0.6892 C:0.0941 C:0.4703	G:0.008  A:0.4387 C:0.1745 C:0.0644
G:0 T:0.5327 C:0.8492 T:0.245 G:0.2808 A:0.3571 T:0.3562 C:0.3869 G:0.3869 G:0.001 T:0.004	G:0.001 T:0.2028 C:0.6412 T:0.4016 G:0.2594 A:0.2654 T:0.2594 C:0.3032 G:0.3032 G:0.1948 T:0.2644	G:0.001 T:0.2853 C:0.6483 T:0.3978 G:0.2342 A:0.4049 T:0.4049 C:0.4335 G:0.456 G:0.1575 T:0.183	G:0 T:0.0803 C:0.1766 T:0.246 G:0.249 A:0.3529 T:0.1659 C:0.8496 G:0.8351 G:0.1976 T:0.0608
G:0.6925 C:0.6915	G:0.5964 C:0.6064	G:0.6012 C:0.6094	C:0.8886
T:0.2321 C:0.2331 T:0.1042 C:0.5099 T:0.2103 A:0.504 A:0.7599 T:0 G:0 T:0.6567	T:0.2783 C:0.2793 T:0.0815 C:0.2177 T:0.2286 A:0.2545 A:0.3529 T:0.0477 G:0.0229 T:0.7455	T:0.2761 C:0.2761 T:0.0245 C:0.4816 T:0.089 A:0.2975 A:0.4417 T:0.0041 G:0.002 T:0.7761	T:0.0845  C:0.0526 T:0.0118 C:0.6369  A:0.2001  T:0.01 G:0.0046 T:0.7326

VEP annotated somatic variants

ACACAGGTGTTTT:0.69(ACACAGGTGTTTT:0.81(ACACAGGTGTTTT:0.8712

C:0.0982	C:0.334	C:0.3599	C:0.645
T:0	T:0.001	T:0.001	T:0
C:0	C:0.006	C:0	C:0.0009
C:0.0288	C:0.1461	C:0.1677	C:0.2065
T:0.1071	T:0.1948	T:0.2638	T:0.1777
C:0.5804	C:0.3121	C:0.3047	
A:0	A:0.1292	A:0.0112	A:0.021
G:0.4901	G:0.4245	G:0.3681	G:0.1014
G:0.0744	G:0.1312	G:0.0982	G:0.2195
A:0.0744	A:0.1441	A:0.1012	A:0.2036
G:0.3998	G:0.1909	G:0.5112	
T:0	T:0.1461	T:0.0112	T:0.0329
G:0.6369	G:0.4771	G:0.5031	
A:0.1448	A:0.1809	A:0.274	A:0.2458
C:0.3581	C:0.2197	C:0.2188	C:0.293
C:0.3631	C:0.3241	C:0.3119	C:0.3117
A:0.2242	A:0.5666	A:0.4141	
T:0	T:0.001	T:0	T:0
T:0.2659	T:0.3231	T:0.3374	
C:0.3433	C:0.4463	C:0.4611	C:0.4898
C:0.2738	C:0.4592	C:0.4928	
G:0.2927	G:0.495	G:0.5992	
C:0.2718	C:0.3917	C:0.3896	C:0.1437
T:0.001	T:0.2793	T:0.1984	T:0.1078
G:0.0446	G:0.1213	G:0.0297	G:0.0455
G:0	G:0.1074	G:0.0092	
G:0.4494	G:0.0934	G:0.0644	G:0.203
T:0	T:0.007	T:0	
G:0.3968	G:0.5895	G:0.6493	G:0.7651
C:0.3552	C:0.3141	C:0.5276	
G:0.1806	G:0.2565	G:0.3129	
A:0.3085	A:0.2416	A:0.2096	
C:0.4534	C:0.3648	C:0.3722	C:0.7567
C:0.1627	C:0.168	C:0.1196	C:0.2336
A:0.1637	A:0.2445	A:0.226	A:0.335
T:0.6736	T:0.2535	T:0.2832	T:0.0833
A:0.245	A:0.2087	A:0.1789	
G:0.8512	G:0.8091	G:0.8252	G:0.3391
T:0.5258	T:0.6004	T:0.5624	
A:0.369	A:0.3499	A:0.3517	A:0.3073
T:0.5962	T:0.6362	T:0.6626	T:0.5546
G:0	G:0.001	G:0.001	G:0.0005
A:0.001	A:0.0636	A:0.0307	
A:0.002	A:0.0109	A:0.0194	A:0.0018
T:0	T:0.0278	T:0.0092	T:0.0054
C:0.7996	C:0.5805	C:0.7025	C:0.919

VEP annotated somatic variants

G:0.1637 G:0.003	G:0.3101 G:0.0785	G:0.2873 G:0.09	
T:0.8442	T:0.7058	T:0.7965	T:0.7156
A:0.374	A:0.2078	A:0.2198	
G:0 T:0.2312	G:0.001 T:0.0457	G:0 T:0.0849	G:0.0583 T:0.1468
G:0.1756 A:0.5813 C:0.7361 T:0.4177 A:0.4177 T:0.4177 A:0.5179 T:0.5149 G:0.3869 A:0 T:0 A:0 C:0.1696	G:0.3698 A:0.7256 C:0.3718 T:0.334 A:0.333 T:0.327 A:0.6511 T:0.5815 G:0.5427 A:0.0149 T:0.004 A:0.0159 C:0.0795	G:0.3926 A:0.5695 C:0.4755 T:0.3609 A:0.3609 T:0.3589 A:0.6053 T:0.5869 G:0.4714 A:0.0061 T:0 A:0 C:0.2597	G:0.1214 A:0.5197  A:0.1798 T:0.4167 A:0.8593 T:0.8182 G:0.3647 A:0.003 T:0 A:0.0029  -:0.529  A:0.0255 G:0.5145 C:0.2029 G:0.069 T:0.1736  T:0.03 A:0.0011 A:0.0048 C:0.5918 C:0.4041
C:0.1776 A:0.4117 A:0.0665 G:0.6151 C:0.129 G:0.3343 T:0.127 C:0.4008 T:0.2639 T:0.0149 A:0 C:0.4067 A:0 C:0.0565 C:0.1161 T:0.7569	C:0.2873 A:0.3668 A:0.1322 G:0.4612 C:0.2008 G:0.1402 T:0.1581 C:0.1571 T:0.0288 T:0.165 A:0.007 C:0.3111 A:0.0099 C:0.3917 C:0.4175 T:0.6362	C:0.1789 A:0.364 A:0.1166 G:0.3262 C:0.2096 G:0.1585 T:0.1503 C:0.1299 T:0.0992 T:0.0276 A:0.001 C:0.1973 A:0 C:0.3804 C:0.3681 T:0.6554	G:0.1541  T:0.3938 G:0.2464 G:0.1515 G:0.8963 A:0.062 T:0.0236
G:0.6806 C:0.6855 T:0.2778 G:0.0258 G:0.7589 G:0.881 A:0.752 T:0	G:0.2744 C:0.2972 T:0.6382 G:0.0169 G:0.1412 G:0.4821 A:0.1441 T:0.1233	G:0.3211 C:0.365 T:0.3661 G:0.0143 G:0.2904 G:0.6309 A:0.2924 T:0.0429	

VEP annotated somatic variants

G:0	G:0.0219	G:0.0112	
G:0.001	G:0	G:0	
A:0.4802	A:0.6014	A:0.6176	A:0.3797
T:0.625	T:0.5388	T:0.6155	
C:0.1597	C:0.0616	C:0.0133	C:0.2758
G:0.251	G:0.2127	G:0.1452	
T:0.1696	T:0.2008	T:0.274	
C:0.6508	C:0.3718	C:0.3732	C:0.1402
G:0.6875	G:0.1292	G:0.1329	G:0.2528
A:0.0556	A:0.1153	A:0.1176	A:0.0207
A:0.4474	A:0.4443	A:0.3405	
T:0.5992	T:0.3827	T:0.4796	T:0.7938
C:0.1984	C:0.0348	C:0.0511	C:0.0325
T:0.3621	T:0.0686	T:0.1278	
A:0.2292	A:0.1421	A:0.2577	
G:0.7103	G:0.5129	G:0.4867	G:0.7791
G:0.5228	G:0.3131	G:0.6503	G:0.7131
G:0.1627	G:0.3608	G:0.2025	G:0.4075
T:0.0337	T:0.3211	T:0.047	
C:0.6359	C:0.503	C:0.5634	C:0.623
C:0.0377	C:0.1153	C:0.2679	C:0.158
A:0.4782	A:0.2326	A:0.4397	A:0.3282
T:0.0427	T:0.1869	T:0.2515	T:0.0317
A:0.5238	A:0.2813	A:0.6104	A:0.7074
AAGT:0.6349	AAGT:0.7763	AAGT:0.7781	AAGT:0.9064
T:0.3393	T:0.3459	T:0.4366	T:0.5675
A:0.7758	A:0.503	A:0.636	A:0.764
C:0.629	C:0.5089	C:0.6043	C:0.7059
T:0.6885,T:0.6885	T:0.6869,T:0.6869	T:0.5123,T:0.5123	
T:0.0367	T:0.3201	T:0.0562	T:0.0704
C:0	C:0.0099	C:0	C:0.0016
			T:0.8023
T:0.496	T:0.337	T:0.2321	T:0.1138
T:0.4038	T:0.8161	T:0.5818	T:0.8429
C:0.1875	C:0.2525	C:0.2342	C:0.6158
T:0.2431	T:0.4085	T:0.364	T:0.7275

VEP annotated somatic variants

EA_MAF	CLIN_SIG	SOMATIC	PUBMED
C:0.0365			
G:0.6569		0,1	
G:0.6216 G:0.6969			
T:0.2695 GAGCGGGCGA:0.12 A:0.2188		0,0,1	15459974
T:0.0289		0,1	
G:0.3325			
A:0.6387 A:0.4222			17357082
T:0.2121		0,1	
A:0.2642 G:0.4873		0,1	16385451
T:0.5827 G:0.0156 G:0.1509			
C:0.1944 C:0.6126 A:0.0517		0,1,1,1	16385451
C:0.4233 T:0.4664		0,1	18,21671168,21846682,19 18782849
C:0.1119 T:0.8297 T:0.3099		0,1,1	
T:0.0217,T:0.0217 T:0.2574	not_provided,benign likely_benign	0,1	22412862 23320549 24419040
T:0.4004	benign		
T:0.7022			25887478

VEP annotated somatic variants

A:0.3323 A:0.17		
T:0.0869		
G:0.7585	0,1	
G:0.2784 -:0.1939 A:0.1349		24849541
	0,1	
C:0.8133 G:0.0828 A:0.1248 T:0.061 T:0.0377	0,1,1	
C:0.0059		
	0,1	
		18511455
T:0.0317	0,1	
G:0.0695 G:0.3177 C:0.1131 T:0.0784		
C:0.3036 C:0.1671	0,1,1,1,1,1,1,1,1 0,1,1,1	18499081,23103231
A:0.0779 T:0.5469		
G:0.2367		
A:0.1476 A:0.0771	benign	
T:0.2767		
-:0.0499		



### VEP annotated somatic variants

T:0.5403 A:0.3617 G:0.3652				
A:0.5982				
G:0.1535 C:0.0464				0,1
A:0.0324 T:0.1171 G:0.3253 G:0.0793	benign likely_benign			
A:0.2249				
A:0.3 G:0.4858 T:0.2577 T:0.9099 G:0.3805 C:0.3068				0,1
A:0.755				0,0,1 17827388 19733838
A:0.3376 G:0.1419	benign benign			0,1 14740319,23559858 25260659
T:0.1784				
G:0.08	benign			18603647,18614612
T:0.0064	not_provided not_provided			12466288,17916242 21356067
T:0.1522 A:0.3483 G:0.0333 C:0.0849	uncertain_significance,not_provided			19276285,19644020,17428325,213560 0,1,1,1,1
A:0.1271				0,1
T:0.682 G:0.302				0,1,1

VEP annotated somatic variants

C:0.3199		0,1,1	
C:0.0699			
-:0.1544			
A:0.0918			17878953
C:0.3059			
C:0.4868		0,1,1,1,1	
C:0.232			
G:0.089	pathogenic	0,0,1 0,1,1	18840896,19778426
C:0.1142			
C:0.1707			
T:0.6173			16355111,18631248,214621
G:0.0907			
C:0.1949			18648537
		0,1	
A:0.0189			
T:0.0045			
C:0.1932		0,1	
G:0.1002			
A:0.0047			
T:0.1688			
T:0.136		0,1,1,1	
T:0.0037			
C:0.2924			
A:0.3329			
G:0.1983			
T:0.1248,T:0.1248	not_provided		17556197,24917393
T:0.0172			
-:0.4809			
A:0.2629		0,1	

VEP annotated somatic variants

A:0.3025			
G:0.0034			
G:0.0024			
A:0.155			
A:0.2224			
A:0.1453			
			23150742
A:0.1455			18172114
G:0.3555		0,1	
-:0.3166		0,0,1	
G:0.6117			
C:0.1349		0,1	37,24140460,20061190,20
			19680542,16621965,185986
-:0.044		0,1	
C:0.341			
T:0.4209			
C:0.6407			
T:0			
A:0.03			
G:0.1899		0,1	
A:0.0119			
A:0.1329			
G:0.3171			
A:0.1132		0,1	
C:0.1954		0,1	
-:0.2671			
T:0.0886			
T:0.6724			
T:0.5513			
	pathogenic,risk_factor	0,0,1	93,20689796,18081690,2
A:0.2164		0,0,1	728845,18992954,164366
C:0.0894			
		0,1	

VEP annotated somatic variants

C:0.318 T:0.1266		0,1	20736995
A:0.0814 T:0.5607 A:0.3128	benign		20211854,22461888,210722
C:0.8793 C:0.0414			22140480
G:0.2359	benign		
T:0.1029 A:0.9041			21750702
A:0.2926			
T:0.2709		0,0,1	567136,19016476,181793
C:0.4202 G:0.1733	benign	0,1	
T:0.0102 G:0.4255 G:0.2389		0,1	
A:0.4849 C:0.149 A:0.0208 A:0.3923 C:0.2069		0,1	
C:0.5173	benign		12958705
G:0.3949 G:0.1749	benign	0,0,1	168589,21304959,168169
G:0.0733		0,1	
G:0.007			
T:0.1117		0,1,1	
T:0.0101			
A:0.6012			

VEP annotated somatic variants

G:0.5134 A:0.4624	0,1	19675668
C:0.2893 T:0.283 A:0.0395	0,1	
G:0.0113		
T:0.7042 T:0.7045 A:0.2187	0,1 0,1,1	
T:0.2402 A:0.5022 A:0.2534 C:0.321 G:0.6802	0,1 0,1	23420841
C:0.1627		
G:0.4265 A:0.1484		20068590
G:0.3065	0,1	25162786,22962485
T:0.1538		24086769
G:0.2801	0,1	
A:0.0002 T:0.5429		
T:0.3231		
A:0.2556		
G:0.3501		18347602
T:0.0066	0,1	21559497

VEP annotated somatic variants

T:0.2162 G:0.0969			16385451
G:0.492			
G:0.358			
G:0.0534			
C:0.3358 C:0.0779 A:0.0247			
G:0.3624			
A:0.0167 C:0.2266 C:0.66		0,1	20031578
T:0.1937 A:0.0447 T:0.3563 C:0.3573 A:0.3737 A:0.2067 -:0.0151 A:0.7359 T:0.1435 T:0.0378	benign	0,1,1	
C:0.0003 C:0.0185 A:0.2313 C:0.2736 C:0.1984 A:0.1014		0,1	22155192
A:0.0755 G:0.4338 A:0.1398			21397065
T:0.4571			24886237,24633486,19593725,24123836,24
-:0.1138 A:0.2872			

VEP annotated somatic variants

T:0.2337		0,1,1	
G:0.6197			
T:0.6748	likely_benign	0,1,1	
T:0.2581			
A:0.4344		0,1	
T:0.3686		0,1	
G:0.3806		0,1	
T:0.4199			17672902
G:0.3599			
C:0.6195		0,1	
C:0.0399			
G:0.0483			
T:0.0492		0,1	19299629,24447348
C:0.021			
A:0.0771			
	benign	0,0,1	35,17498780,18992263,17
T:0.1016		0,1	
A:0.143			21927923
A:0.446			
A:0.0857	benign		
A:0.5587	benign	0,1,1	
T:0.1525		0,1	
T:0.3457			
T:0.0298			
A:0.3748		0,0,1	515603,19846925,203371
C:0.128			
C:0.1736	benign	0,0,1,1	13,19552680,17209060,24
T:0.1488			17209060
	pathogenic		
A:0.2661			
G:0.1981			20565855,20427696,16893529,225633
G:0.1695			
A:0.271		0,1	18454203
C:0.7387			
C:0.1518			
A:0.0139			
A:0.0949			

VEP annotated somatic variants

G:0.2451			
A:0.8503			
G:0.314		0,1	
T:0.0285			
G:0.6713			
C:0.6717,C:0.6717			
C:0.4674			
C:0.1844			20105321
A:0.1905		0,1	
A:0.1796			
A:0.2014			20679621,24511462,239891
T:0.0007			
C:0.1073			
A:0.292			
A:0.2558			
A:0.3119			
A:0.4093		0,1	
A:0.6895	pathogenic	0,0,1	39,20691689,21412156,2423650146,17263791,19190816,18848323,18772067,18974842,200315
T:0.3427			17903299
T:0.0097			
A:0.0568			
A:0.1977			
A:0.0163	benign		19453265,19727905,241761
T:0.0565		0,0,1	15858076,23350966
-:0.3627		0,1	
T:0.7351			
G:0.77		0,1	
C:0.2233		0,1	19276632
C:0.7656	benign	0,1,1,1,1	15922487,17119116,17286537,18842806,2423650146,17263791,19190816,18848323,18772067,18974842,200315



VEP annotated somatic variants

T:0.3771		0,1,1	
A:0.3261			
T:0.3624			
T:0.3325			
T:0.0096			
A:0.356			
C:0.4122			
C:0.5239			17357072
T:0.3221			
T:0.4092			
A:0.5178	benign		20886637
T:0.0278			
G:0.3833			
T:0.242			21819567
G:0.3819		0,1	
T:0.4197		0,1	
C:0.0221			
A:0.022			
T:0.1752			
A:0.1752		0,1	
T:0.1741			
G:0.1477		0,1	
G:0.2788		0,1,1	
C:0.0717			16385451
G:0.2646			
G:0.0028			
T:0.3166			
G:0.0517		0,1	
A:0.0432			
A:0.051			
A:0.0068			
A:0.4697		0,1	19430760
A:0.133		0,1	
A:0.3533			
A:0.4828			23201419,24671236,25201284,18
C:0.9503			
G:0.1274			
A:0.0992			
T:0.2625		0,1	
T:0.2015		0,1,1	
A:0.0992			19640273
A:0.3152		0,1,1,1	

VEP annotated somatic variants

C:0.127 A:0.0928		18787502,18035074,18403734,25093390,17 0,1	
A:0.5094 C:0.4393		0,1 0,1	
A:0.2477 A:0.1457 G:0.0322 C:0.3261		0,1,1	
A:0.0154			
A:0.6456			18484081 22669415
T:0.2787		0,1,1,1	18329248,19156168
T:0.0335			
T:0.3355			17601350,21320344,18559526,18709160,24
T:0.1897			
A:0.6153 C:0.331			
C:0.7166			
A:0.0587 T:0.5927 A:0.0407 A:0.0508 T:0.0519 C:0.4708		0,1,1,1    0,1	
C:0.4183 T:0.1267			
T:0.0031 C:0.0179 A:0.4142 T:0.6188	not_provided,likely_benign,pathogenic benign	0,0,1,1	566314,24467728,194014

VEP annotated somatic variants

A:0.4051		0,1	
A:0.1102		0,1,1,1	
T:0.469			
T:0.2419		0,1	19043567,19664584
A:0.7018			
T:0.6555			
A:0.2386			18439552,20031592,219317
T:0.0339			
C:0.121			
A:0.0986	benign		19843503
A:0.2824		0,1	17135278,18783506
C:0.5378	likely_benign		
T:0.2745		0,1,1	
C:0.778			22137500
G:0.317		0,0,1,1	26,18588853,21090563,20
A:0.2174			
C:0.4475			
G:0.3472		0,1	
A:0.1497			
G:0.1588			
C:0.0668			
G:0.4551		0,1	
T:0.0065			
T:0.0239			
A:0.221			19434426,17348446,20226046,21
T:0.2416	benign	0,0,1,1	22666415,24824313,22395465,16750516,24895547,21
G:0.2436			51,25622255,21082232,25
A:0.0549			18411068,16473310
A:0.2957			
C:0.013			

VEP annotated somatic variants

C:0.6587			
C:0.125			18348195
A:0.2083			
		23871474,24174267,21926974,244616	
T:0.233			25505091
G:0.8711			
C:0.008			
A:0.0156			
A:0.1512			
A:0.5249			
G:0.7113			
A:0.1194			
G:0.2597			25155265
T:0.2544		0,1	
-:0.3973			
T:0.2024			
A:0.3309			
A:0.4209		0,1	
T:0.3624		0,1	
C:0.3449			16175505
T:0.1647			
C:0.0807			
A:0.0324			
T:0.0016			
A:0.118	benign	0,1,1,1	24943594,20442750
G:0.4334			
G:0.3402		0,1	
T:0.3398		0,1	
A:0.0055		0,1	
G:0.086		0,1,1	
A:0.0005			
A:0.03			
A:0.1286			
T:0.0963			
C:0.3472			

VEP annotated somatic variants

G:0.1762

17931948

C:0.0148  
A:0.6168  
G:0.7303  
T:0.6279

0,1

C:0.2692

C:0.7307  
C:0.6618  
G:0.7114  
T:0.0298

0,1

T:0.7115  
A:0.5694

A:0.2808  
G:0.3644

0,1,1,1

A:0.7221  
T:0.2435

A:0.2502

C:0.4261

C:0.0954

A:0.5935  
T:0.0699  
A:0.0006

A:0.3113

A:0.3457  
G:0.0347

20169177

G:0.0478  
A:0.0274  
G:0.3114

0,1

VEP annotated somatic variants

T:0.3303			
	benign		16385451 16385451
T:0.4786 C:0.0356 C:0.7187			
C:0.4156			
C:0.1881 T:0.7001		0,1	
		0,1	
G:0.4559 A:0.3388 C:0.467		0,1	
T:0.8867		0,1	
C:0.015			
C:0.2672 G:0.2501 T:0.2681 G:0.0286 A:0.4352 T:0.1939		0,1,1 0,1,1 0,1,1	16642431
A:0.0004,A:0.0004	benign		
C:0.622			
C:0.0003		0,1	
C:0.0019 G:0.4594			
T:0.0595 T:0.2456 A:0.1234 A:0.2506			
T:0.1694 T:0.127 A:0.3297		0,0,1,1,1,1	18,21787115,19536092,20
G:0.3565			

VEP annotated somatic variants

C:0.0918			
C:0.2381			
T:0.3556			
T:0.2657			
A:0.3531			16642439
G:0.0094			
A:0.4295			23946598
A:0.726			23148531
G:0.3305		0,1,1,1	
G:0.7902		0,1,1,1	
C:0.2852		0,1,1,1	
G:0.3472			
A:0.0262			
T:0.0685			
T:0.3027			16400609
T:0.2388		0,1	24996771
G:0.4134	benign	0,1	493349,18842806,219609
T:0.6317	benign		19493349
G:0.4195			
A:0.61			
GGGAGA:0.2376			
C:0.3273		0,1,1	
		0,1	
C:0.5171		0,1	
G:0.576		0,1,1	
A:0.6147		0,1	
-:0.7248	benign		23233322
T:0.262	benign	0,1,1	20226094
C:0.2881			
T:0.1513	benign	0,1	20592870
C:0.3634			
A:0.7626			
G:0.5355			
T:0.0087	benign		21829377

VEP annotated somatic variants

T:0.1059		0,1	
T:0.0529			
G:0.509			
T:0.4463			
G:0.331		0,1,1	12466288
T:0.3296			
C:0.3258		0,1	
A:0.326			
T:0.0741		0,0,1,1	369270,24633158,181930
T:0.0087			
A:0.0176			
A:0.391			
T:0.1343	likely_benign		17601350,20819849
C:0.8154			
T:0.1704		0,1,1	
C:0.401			
G:0.3001			
C:0.0024	likely_benign		
T:0.0165			
G:0.6663			
G:0.0785		0,1	
G:0.3611			
G:0.4653			
T:0.7766			
G:0.0081			
G:0.0081			
T:0.1528		0,1	
A:0.0358			
A:0.0258			
G:0.3043			
A:0.1049			
G:0.0291			
			20602773,15707951,162023
	pathogenic,risk_factor		333443,23560644,24806096,19168583,20624112,2
G:0.0627			16729972
			16729972
G:0.2015			24861377,19752398
G:0.064		0,1,1	
G:0.2107			18340359,19732772,23565190,22



VEP annotated somatic variants

C:0.0498	benign		18001468
T:0.0364			
A:0.1863		0,1	
T:0.0383			
A:0.2287			
G:0.363		0,1	
T:0.1509		0,1	
A:0.3941			
C:0.6975			
C:0.1654			
A:0.0239		0,1,1	
A:0.193			
T:0.5372		1,0	
A:0.0616			
T:0.061			
T:0.058			
A:0.2802		0,1	
G:0.3073		0,1	
C:0.7885		0,1	
A:0.0247		0,1	
A:0.1637			
G:0.1478			
G:0.1741		0,1	
G:0.1012			
AGC:0.2795			
G:0.1507			
A:0.1919		0,1	
T:0.0682			
A:0.3151			
A:0.0133			
G:0.2118		0,1	
A:0.3748		0,1	16038259,24223962

VEP annotated somatic variants

A:0.1429		
T:0.1271	0,1,1,1	
G:0.018		
G:0.0685	0,1,1	19714462
G:0.2398	0,1	
A:0.3733	0,0,1,1	547835,23918616,162563
A:0.0112		
T:0.4406	0,1	
A:0.2973	0,1,1,1	
A:0.1712	0,1	benign
C:0.4329	0,1	14574644
C:0.4367	0,1	
G:0.3359		22504420,19148276
G:0.3007		
G:0.2854	0,1,1	
A:0.1133		
C:0.1264	0,1	
A:0.2398	0,1	21247474
G:0.2479		
T:0.2057	0,1,1	
G:0.4567		23840689
T:0.3897		
A:0.2389	0,1,1	
G:0.2955		
G:0.2492		
G:0.0531		
G:0.3302		
A:0.3131	0,1	
G:0.4137		
A:0.1686		
C:0.4725		
T:0.1272		16828203
A:0.1071		
G:0.4441		

VEP annotated somatic variants

T:0.2559			
T:0.2857		22865593,25139097,22001756,25992311,22359309,25687184,207298	
G:0.6267			
C:0.4294	likely_benign	0,1,1,1,1,1,1	
G:0.3868	likely_benign	0,1,1,1,1,1,1	
	benign		
A:0.4082		0,1,1,1,1,1,1	
G:0.419		0,1,1,1,1,1,1	19052777
G:0.4404		0,1,1,1,1,1,1	
T:0.276			
C:0.5238			
T:0.2664			
T:0.2865		0,1,1,1	19390624
C:0.3327			19390624
A:0.2118	likely_benign	0,1,1	
G:0.115			21474826
		0,1,1,1,1	
	likely_benign	377714,23334806,17187763,21178094,25043640,2	
	benign,likely_benign	0,0,1	347532,22410809,251972
C:0.607		0,1	
G:0.3776			23324528
C:0.2621			
T:0.5932			23127126
A:0.3756			
C:0.576			
T:0.346			
C:0.3518			
G:0.2255			
G:0.3915			
G:0.4582			19014520
A:0.2838			
A:0.0296			

### VEP annotated somatic variants

A:0.1099			
C:0.0541			
G:0.2124			
G:0.4454			
G:0.1052			
C:0.5576			
A:0.3384		0,1	
C:0.0056			
GC:0.005			
C:0.4835			
G:0.2551			
G:0.1687		0,1	
A:0.2748			
G:0.9145			
A:0.3588			
G:0.3587			
G:0.1945		0,1	
A:0.3652	benign		25541970,21348951
A:0.7913			
C:0.2937			
-.0.7161	benign		
T:0.0021			
C:0.0001			
A:0.5145			
G:0.4012		0,1	21565829,22428065
-.0.4397			
GGGGATTA:0.1858		0,1	
G:0.163			
C:0.5579	benign		
C:0.5715			
T:0.3393			
C:0.5766		0,1	
T:0.4282		0,1,1	
T:0.0798			23592335
		1	

VEP annotated somatic variants

-:0.3277			
A:0.4972 T:0.5299		0,0,1	0,18971541,25481646,22
G:0.4001 T:0.0067			
T:0.3698			
C:0.218			
T:0.4958 T:0.7657		0,1 0,1	18389087
T:0.3228 A:0.5865 A:0.6031 G:0.2501 C:0.1878 C:0.8017 T:0.361 C:0.0859		0,1 0,1 0,1 0,1,1	16385451 24934404,24942080
A:0.649 T:0.3544,T:0.3544 A:0.1262,A:0.1262 T:0.0016	not_provided,benign not_provided benign	0,0,1	20145122,20558521,22265947,18 13,19513315,17033962,19 16917943
A:0.5597 T:0.4598	benign		24978818
G:0.5424 A:0.5483			24587951,21072201
T:0.262		0,1	141583,21812969,235988
G:0.4157		0,1,1	25374748,25374745
A:0.3666 C:0.8928			
G:0.8714	benign		7,25392755,22348792,22058430,22007172,224738

VEP annotated somatic variants

T:0.865

G:0.1177 benign 0,1 25358694  
 A:0.3016 04,20015893,23453696,21

G:0.2197 0,1 16385451  
 T:0.2207

C:0.0481 0,1  
 G:0.1058

C:0.5748  
 G:0.5709

C:0.2348 24528284,18854866

C:0.1197 0,1  
 A:0.0048

C:0.4417  
 C:0.5015

A:0.2212  
 C:0.2235 0,1

T:0.1049  
 T:0.5747 0,1 21204206,17476318

T:0.1366

C:0.2007 0,1

G:0.2103 benign 0,1 23978482,18710470  
 C:0.3704  
 T:0.1676  
 A:0.1821  
 C:0.366 not\_provided,benign 0,1,1

C:0.7327

T:0.0166

VEP annotated somatic variants

A:0.4406			22544659
A:0.7814			
G:0.0987			
A:0.2484			19491853
G:0.2523			
T:0.2129			
19141529,19199283,19541292,20031642,20395645,23149035,15993855,17123473,166167			
A:0.0628			16604304,16841561
T:0.4884			
A:0.0672		0,1	
G:0.4458		0,1	
A:0.2515		0,1,1	
T:0.0023			
A:0.3963			
G:0.5633			
A:0.0569			
T:0.1183			
C:0.0344		0,1	19185281
T:0.0514		0,1,1	
G:0.0086	ncertain_significance,benign		
T:0.1438			
T:0.301			
C:0.3301			
T:0.0243			
G:0.7817			
C:0.2963			
T:0.2667		0,1	

VEP annotated somatic variants

G:0.1603 C:0.634 A:0.566			
G:0.1771			
C:0.589			18778477
C:0.3155	risk_factor	0,1 0,0,1	19,16380915,18657476,18
T:0.3517 G:0.1851			
C:0.072 C:0.0452 T:0.1057 T:0.1511 C:0.2594 A:0.1057	benign	0,1    0,1,1,1	
A:0.2477 C:0.3609		0,1	
A:0.0229			
C:0.4559 A:0.403			
T:0.0064 T:0.2672 C:0.4008	likely_benign		
A:0.105 C:0.1855		0,1	
T:0.3542		0,1	
G:0.2976			19285750,21116649,22363464,178489
C:0.0341 A:0.3703 T:0.4964 T:0.0071 A:0.187		0,1 0,1 0,1	15110318,18980857  20927379



VEP annotated somatic variants

A:0.6819	0,1	
G:0.3279		
A:0.2512		
C:0.4172		19880490
A:0.0181		
A:0.24	0,1	424379,19543401,235204
C:0.0029		
T:0.4702	0,1,1	
G:0.0449	0,1	
A:0.14		
:-0.0265		
G:0.0381		
A:0.5084		
C:0.1986		
C:0.2794		
G:0.0027		
T:0.1878		
C:0.6415		24798189
T:0.4059	0,1	
G:0.2899	0,1,1,1	
A:0.2494		
T:0.2455	0,1	
C:0.3029	0,0,1	346866,21212151,248205
G:0.3036	0,0,1	7,15987456,16741161,20
G:0.1901		
T:0.2812		
C:0.606	0,1	
T:0.0811		
C:0.2606		
T:0.0793		
C:0.3117		
A:0.2219		
T:0.0405		
G:0.0165	0,1,1	
T:0.7434		

VEP annotated somatic variants

C:0.3381		0,1	
T:0.0012			
C:0.0087			
C:0.2059			
T:0.2027			
A:0.1194			
G:0.3976			
G:0.1378	not_provided,benign	0,1	042,93284,10363127,206
A:0.132	not_provided		16981987,10533067
T:0.1707		0,1	
A:0.1818			
C:0.2037			
C:0.317		0,1	20096481
T:0.0013			
C:0.3769			
		0,1,1	
C:0.3956			
T:0.2966		0,1	16400609
G:0.1373			
G:0.0996			
G:0.5824			
C:0.3528		0,1	
C:0.1951			
A:0.2481			
T:0.2184			
G:0.8242			20011102
A:0.3517		0,1,1	
T:0.6362			
G:0.0009			
A:0.0094	not_provided		
T:0.0303	benign		18273898
C:0.603		0,1	

VEP annotated somatic variants

T:0.6707

G:0.0008  
T:0.0403

0,1

G:0.3776  
A:0.7423

0,1

16385451

A:0.3356  
T:0.3259  
A:0.6544  
T:0.5819  
G:0.5523  
A:0.015  
T:0.0007  
A:0.0123

0,1

0,1

:-0.4374

0,1

A:0.1079  
G:0.4559  
C:0.2267  
G:0.1527  
T:0.1735

benign

0,1,1

0,1

16385451

T:0.0535

A:0.0073

A:0.015  
C:0.3856  
C:0.4286

0,1

0,1

76,22579466,20061190,23  
18936436,19029194,216229

G:0.2397

0,1

T:0.6369  
G:0.0141  
G:0.1384  
G:0.4974  
A:0.115  
T:0.1313

0,1

VEP annotated somatic variants

A:0.5801		0,1	20158892
C:0.0655			
C:0.3693			
G:0.1058			
A:0.1003			
T:0.5039		0,1,1	
C:0.028		0,1	18682748
G:0.49			
G:0.3045		0,1	
G:0.395			
C:0.52			
C:0.1154			
A:0.2195	likely_benign	0,1	
T:0.1621			
A:0.2707		0,1	
AAGT:0.7549			
T:0.3511		0,1,1	
A:0.4852		0,1,1	
C:0.5216		0,1	
T:0.4238			21810217
C:0.0119			
T:0.3563		0,1	
T:0.3201		0,1	
T:0.8205			
C:0.2531			
T:0.3976			

VEP annotated somatic variants

MOTIF_NAME	MOTIF_POS	HIGH_INF_POS	MOTIF_SCORE_CHANGE
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3716087,21935354,21688035,20594303,19327134

## VEP annotated somatic variants

## VEP annotated somatic variants

167,18694767

## VEP annotated somatic variants

36



VEP annotated somatic variants

0863778,23624123,23775331,25690281,22110495,21989229  
i42

0843825,23797962,25881145,24855199,23562679,23687431,23922956,24652518,18461138,171945  
i43

VEP annotated somatic variants

01

91,24980155,25477898,24172113,24407958,18213623,20587580,21714860,19157983,25252306,186

40,19605537,18983999,19693267,21423693,17994190,19699472,19900610,16848906,21462137,196

## VEP annotated somatic variants

## VEP annotated somatic variants

4069190,16466695

VEP annotated somatic variants

7363767,17548691,17686149,22928041,17885617,19017876,22655231,18191955,19111454,2569481

48,22573488,18559551,22146767

4086941

132,22591901

## VEP annotated somatic variants

97

1340057,22271411,21504591,22313031,22696188,23524567,24239227,24248544,24381107,2501284  
177,25156046,16525568,17241179,21757653

11

1447348,22018726

## VEP annotated somatic variants

3721844

VEP annotated somatic variants

7498578,18848323

4915237,22357570

144,21138591,24659834,18795173,25071582,22074419,19165391,19879291,23996192,18194558,206



VEP annotated somatic variants

'94

0112391,22123319,17540610

1708937  
1078522,20639793,21422097  
5927028,18411068

## VEP annotated somatic variants

34,23967141

## VEP annotated somatic variants

## VEP annotated somatic variants

206583,16857995,23720673,17482892,23852586,18708406,22655231,19124499,17569599,1943886

## VEP annotated somatic variants

195

VEP annotated somatic variants

144,24531328,19802338,23804528,18852197,23594525,24966605,22617559,25018854,23394097

194

4940036,24068186,24323870,17658478,18634977,25430627,23681449,19505917,25685286,227295

2216302

## VEP annotated somatic variants

VEP annotated somatic variants

189,18582870



VEP annotated somatic variants

52,22740136,24884822,22960999,22323360

4059590,19466586,22535570,25784779,22328972,19587357,20929593,25516658,17141766,200431  
74,18573313,18992148,18707223,22987045,22820754,16253648,18426866,18340007,23907334,25

## VEP annotated somatic variants

VEP annotated somatic variants

2787471,23326532,22787467

3375961  
3734047

318

370,20212137,20033988,23102778,23129781,15302875,23006801

VEP annotated somatic variants

1203404

## VEP annotated somatic variants

'19,17964050,15995945,15361494,17629953,19020798,19032574

VEP annotated somatic variants

3466472,18466513,18560894,19956095,19122825,16159953,16735488,17229939,17374705

114,23300679

## VEP annotated somatic variants

164

15,25532599,20805886,20686496,25937777,24603722  
1686496

VEP annotated somatic variants

58316



## VEP annotated somatic variants

3553206,20719408,19061777  
140

## VEP annotated somatic variants

VEP annotated somatic variants

IMPACT	PICK	VARIANT_CLASS	TSL
MODIFIER	1	insertion	
MODIFIER	1	SNV	
MODIFIER	1	SNV	
LOW	1	SNV	
MODIFIER	1	SNV	
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MODIFIER	1	SNV	
LOW	1	SNV	
MODIFIER	1	deletion	
LOW	1	SNV	
MODIFIER	1	insertion	
LOW	1	SNV	
MODIFIER		SNV	
MODERATE	1	SNV	
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MODIFIER	1	SNV	
LOW	1	SNV	
MODIFIER	1	SNV	
MODIFIER	1	SNV	
MODIFIER	1	SNV	
LOW	1	SNV	
MODERATE	1	SNV	
MODIFIER	1	insertion	
MODERATE	1	SNV	
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MODIFIER	1	deletion	
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MODIFIER	1	deletion	
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MODIFIER	1	insertion	
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VEP annotated somatic variants

MODIFIER	1	SNV
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MODIFIER	1	deletion
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MODERATE	1	SNV
MODIFIER	1	SNV
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MODIFIER	1	SNV
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MODERATE	1	SNV
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MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	deletion
MODERATE	1	SNV
MODIFIER		SNV
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LOW	1	SNV
MODERATE	1	SNV
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MODIFIER	1	SNV
MODIFIER	1	deletion

VEP annotated somatic variants

MODIFIER	1	SNV
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LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	insertion
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MODERATE	1	SNV
MODIFIER	1	SNV
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LOW	1	SNV
MODIFIER	1	SNV

VEP annotated somatic variants

MODIFIER	1	insertion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
HIGH	1	deletion
MODIFIER	1	deletion
MODIFIER		SNV
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MODERATE	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
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MODIFIER	1	deletion
MODIFIER	1	SNV
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MODIFIER	1	SNV
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MODIFIER	1	deletion
MODERATE	1	SNV

VEP annotated somatic variants

MODIFIER	1	SNV
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MODERATE	1	SNV
HIGH	1	deletion
MODIFIER	1	SNV
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MODERATE	1	deletion
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MODIFIER	1	deletion
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VEP annotated somatic variants

MODIFIER	1	SNV
MODERATE	1	SNV
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MODIFIER	1	insertion
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VEP annotated somatic variants

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VEP annotated somatic variants

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VEP annotated somatic variants

LOW	1	SNV
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VEP annotated somatic variants

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MODERATE	1	deletion
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VEP annotated somatic variants

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VEP annotated somatic variants

LOW	1	SNV
MODIFIER	1	deletion
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	insertion
LOW	1	SNV
LOW	1	SNV
LOW	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	deletion
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV

VEP annotated somatic variants

MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV



VEP annotated somatic variants

LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV

VEP annotated somatic variants

MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV

VEP annotated somatic variants

MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
LOW	1	insertion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV

VEP annotated somatic variants

MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV





VEP annotated somatic variants

MODIFIER	1	insertion
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER		SNV
MODIFIER		SNV
MODIFIER	1	insertion

VEP annotated somatic variants

MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
HIGH	1	insertion
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV



VEP annotated somatic variants

MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER		SNV
MODIFIER		SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	insertion
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV



VEP annotated somatic variants

MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion

VEP annotated somatic variants

MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	insertion
MODERATE	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
HIGH	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV

VEP annotated somatic variants

MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	deletion
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	deletion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
LOW	1	SNV

VEP annotated somatic variants

MODIFIER	1	insertion
LOW	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
LOW	1	SNV

VEP annotated somatic variants

HIGH	1	insertion
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	insertion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER		deletion
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	deletion
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV

VEP annotated somatic variants

LOW	1	SNV
MODERATE	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODERATE	1	SNV
MODIFIER	1	insertion
MODERATE	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
LOW	1	SNV
MODERATE	1	SNV
LOW	1	SNV
LOW	1	SNV
MODERATE	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV
MODIFIER	1	SNV



VEP annotated somatic variants

HGVS_OFFSET	PHENO	MINIMISED	ExAC_AF
		1	
		1	0.03148
		1	
	0,1	1	0.5896
		1	
		1	0.5372
		1	0.6565
		1	0.00002832
		1	
	1,1,1	1	0.2943
		1	0.04186
		1	0.1952
		1	0.8436
	0,1	1	0.02675
		1	
		1	
		1	
		1	0.00001017
		1	0.04764
		1	0.6231
		1	0.3279
		1	
		1	
	0,1	1	0.1609
		1	
	0,1	1	0.2063
		1	0.4918
		1	0.0003527
		1	0.6522
		1	0.02838
		1	0.1771
4		1	0.04215
		1	
	0,1,1,1	1	0.2383
	1	1	0.5905
		1	0.03403
6		1	
		1	0.3969
	0,1	1	0.4859
		1	
		1	
	0,1,1	1	0.2049
		1	
		1	0.2525
	1,1,0	1	0.01398
	1,1	1	0.2044
		1	
	1	1	0.3711
		1	
		1	0.7586
		1	

VEP annotated somatic variants

	1	0.2411
	1	0.1891
	1	
	1	
	1	0.07678
	1	
	1	0.7742
0,1	1	0.1338
	1	0.2575
	1	0.2067
	1	0.1996
	1	
0,1	1	0.2086
	1	0.8381
0,1,1	1	0.1381
	1	0.08986
	1	0.04656
	1	
	1	
	1	
	1	
	1	0.00001883
	1	
	1	
0,1	1	0.2707
	1	0.2765
	1	
0,1	1	0.03878
	1	
	1	0.05899
	1	0.2946
	1	0.1807
	1	0.04946
	1	
	1	
0,1,1,1,1,1,1,1,1,1	1	0.3429
0,1,1,1	1	0.2193
	1	
	1	0.05041
	1	
	1	0.6179
	1	0.6092
	1	
	1	0.4945
	1	0.1662
	1	
	1	0.1418
1,1,1	1	0.05155
	1	
	1	0.2377
	1	
	1	0.04516

VEP annotated somatic variants

	1	
	1	
	1	0.4394
	1	0.3724
	1	
	1	
	1	0.6527
	1	
	1	0.1682
	1	0.03362
0,1	1	
1	1	0.02535
1	1	0.1074
	1	0.3557
	1	0.08105
	1	
	1	0.2591
	1	
	1	
	1	0.2597
	1	0.4041
	1	0.27
	1	0.9352
	1	0.4145
0,1	1	0.2816
	1	0.3535
0,1,1	1	0.7634
	1	
	1	
1,1	1	0.4174
1	1	0.1141
	1	
	1	0.1688
	1	
	1	
1	1	0.04792
	1	
	1	0.004793
1,1	1	
1	1	
	1	
1	1	0.1072
0,1,1,1,1	1	0.2671
	1	0.01512
	1	0.05177
	1	
1	1	
0,1	1	0.1092
	1	
	1	
0,1,1	1	0.6755
	1	0.279

VEP annotated somatic variants

		1	
	0,1,1	1	0.2485
	1	1	
		1	
		1	0.04318
		1	0.4009
1		1	0.1578
6		1	
	1	1	
	0,1,1,1,1	1	0.3923
		1	0.5446
		1	0.2958
	1,0,1	1	0.2026
	0,1,1	1	0.1701
		1	
		1	
		1	0.1606
		1	0.2612
		1	
		1	
		1	0.6596
		1	
		1	0.074
		1	0.2135
	0,1	1	0.2792
		1	
		1	0.263
		1	0.01044
		1	0.002674
		1	
	0,1	1	0.2681
		1	
		1	
		1	0.09573
		1	
		1	
		1	
		1	0.004711
		1	
		1	0.1852
	0,1,1,1	1	0.09765
		1	
		1	
		1	0.008002
		1	0.2481
		1	0.3299
		1	
		1	
		1	
	1,0	1	0.08206
		1	0.01244
3		1	0.4123
	0,1	1	0.3146

VEP annotated somatic variants

	1	0.2931
	1	
	1	0.001666
	1	
	1	0.00146
	1	
	1	
	1	0.1224
	1	0.1749
	1	
	1	0.1485
	1	
	1	0.0902
0,1	1	0.3648
0,0,1	1	0.2618
	1	0.5861
	1	
0,1	1	0.2132
	1	
0,1	1	0.01214
	1	
	1	
	1	0.3821
	1	0.7101
	1	0.00009422
	1	
	1	0.0179
	1	
0,1	1	0.1871
	1	
	1	0.02002
	1	0.06587
1	1	0.3054
	1	
	1	
	1	
0,1	1	0.1642
	1	
0,1	1	0.1664
	1	0.2565
	1	0.06684
	1	
	1	
	1	
	1	0.7031
	1	0.6318
	1	
	1	
1,1,1	1	0.6748
1,1,1	1	0.2248
	1	0.165
0,1	1	0.5317
	1	

VEP annotated somatic variants

	1	
0,1	1	0.1048
	1	
1	1	0.1007
	1	0.4772
	1	0.29
	1	
	1	0.8317
	1	0.03131
	1	
	1	
	1	
	1	0.1529
1	1	0.2809
	1	
	1	0.1392
	1	0.8905
	1	
	1	
	1	0.373
	1	
0,1,1	1	0.2106
	1	
1	1	0.3698
1,1	1	0.2153
	1	
0,1	1	0.008589
	1	0.4818
	1	0.219
	1	
	1	
	1	
	1	
0,1	1	0.3733
	1	0.3092
	1	
1	1	0.5382
	1	
0,1,1	1	0.3336
1	1	0.167
	1	
	1	
	1	
0,1	1	0.06243
	1	0.2583
	1	0.007711
	1	
	1	
0,1,1	1	0.1256
	1	
	1	0.007222
	1	
	1	0.392
	1	0.5729
	1	

VEP annotated somatic variants

0,1	1	0.4758
	1	0.4194
	1	0.1521
	1	0.3814
	1	0.2521
0,1	1	0.05888
1	1	0.3263
	1	0.008191
	1	
	1	0.000009417
	1	0.6413
0,1	1	0.6442
0,1,1	1	0.1593
	1	
	1	
	1	
	1	
	1	
0,1	1	0.2324
	1	0.5075
0,1	1	0.2714
	1	
	1	0.6395
	1	
	1	0.1605
	1	
	1	0.3096
	1	0.127
	1	
0,1	1	0.2922
	1	
	1	0.4248
	1	0.09731
	1	
0,1	1	0.3558
	1	
	1	
	1	0.00009768
	1	0.4922
	1	
	1	0.3569
	1	0.2382
	1	
	1	0.2471
	1	0.00006629
	1	
	1	
	1	
	1	
	1	
	1	
0,1	1	0.4992
	1	0.003663
	1	

VEP annotated somatic variants

		1	
		1	0.1055
		1	
		1	0.5263
		1	
		1	0.3469
		1	
		1	
		1	0.04988
		1	
		1	
		1	0.2816
		1	0.05212
		1	0.01924
		1	
		1	
		1	0.06228
	0,1	1	0.2539
		1	0.7335
		1	
		1	0.1386
		1	0.0447
		1	0.3139
		1	0.3064
		1	
		1	0.2247
		1	
		1	0.7217
	0,1,1	1	0.1404
	1	1	0.0216
		1	
		1	
		1	0.01203
	0,1	1	0.2441
		1	0.3444
		1	0.1824
		1	0.0856
		1	
		1	
		1	0.05447
		1	0.3524
		1	0.08746
		1	
		1	
		1	0.4425
		1	
		1	
		1	
		1	
		1	
1		1	
		1	0.2668



VEP annotated somatic variants

0,1,1	1	0.1835
	1	
	1	0.5731
1,1,1	1	0.5382
	1	0.2455
0,1	1	0.4439
0,1	1	0.3923
0,1	1	0.4253
	1	
	1	
	1	0.4443
	1	
0,1	1	0.629
	1	0.5189
	1	0.5189
0,1	1	0.06727
	1	
	1	
	1	0.01422
	1	
	1	
	1	0.0898
1,1,1	1	0.1946
0,1	1	0.07443
	1	
1	1	
	1	0.4472
1,1	1	0.07556
1,1,1	1	0.4819
0,1	1	0.1074
	1	
	1	0.3392
	1	
	1	
	1	0.01795
	1	
1,0,1	1	0.3582
	1	
	1	0.1197
1,1,1,1	1	0.1815
	1	0.1182
1,1,1	1	
	1	0.33
1	1	0.1769
	1	0.2232
	1	0.4569
0,1	1	0.3646
	1	
	1	
	1	0.687
	1	0.2074
	1	0.132
	1	0.01088
	1	0.09125

VEP annotated somatic variants

	1	
	1	0.5703
	1	
	1	
	1	
	1	0.1865
	1	0.8358
0,1	1	0.3537
	1	0.02158
	1	
	1	0.7224
	1	
	1	0.7231
	1	0.4349
	1	0.2018
	1	
0,1	1	0.1317
	1	
	1	0.1463
	1	
	1	0.0004545
	1	0.09221
	1	
	1	0.259
	1	0.3398
	1	
	1	
	1	
	1	
	1	
	1	
0,1	1	0.4815
1,1,1	1	0.3196
	1	0.6734
	1	
1	1	0.3437
	1	
	1	0.01591
	1	
	1	0.06259
	1	0.2972
1,1	1	0.01523
	1	
	1	
	1	
1,0,1	1	0.1131
0,1	1	0.2513
1	1	
	1	0.6889
0,1	1	0.6543
0,1	1	0.2164
	1	
	1	
1,1,1,1,1	1	0.7392
	1	

VEP annotated somatic variants

0,1,1	1	0.3567
	1	0.2398
	1	0.3425
	1	0.3214
	1	
	1	
	1	0.006023
	1	0.4962
	1	0.375
	1	0.4422
	1	
	1	
	1	0.3756
	1	
1	1	0.545
	1	
	1	0.01862
	1	0.3246
	1	0.2255
0,1	1	0.3574
0,1	1	0.3765
	1	0.04582
	1	0.03496
	1	
	1	
	1	0.1744
0,1	1	0.1749
	1	0.07508
0,1	1	0.104
0,1,1	1	0.3042
	1	
	1	0.09149
	1	
	1	
0,1	1	0.2645
	1	0.07495
	1	0.08294
	1	0.03227
	1	0.006653
0,1	1	0.3734
0,1	1	0.1219
	1	0.2988
	1	
	1	0.4971
	1	0.9685
	1	0.09321
	1	0.1111
	1	
	1	
0,1	1	0.2654
0,1,1	1	0.1952
	1	0.07335
0,1,1,1	1	0.2968

VEP annotated somatic variants

1,0	1	0.1589
0,1	1	0.1204
	1	0.5452
	1	
0,1	1	0.3562
0,1	1	0.4938
	1	
	1	0.3278
	1	0.2318
	1	0.04741
0,1,1	1	0.3019
	1	
	1	
	1	
	1	
	1	0.08885
	1	0.6689
	1	0.1861
0,1,1,1	1	0.25
	1	
	1	0.03591
	1	
	1	0.2771
	1	0.008189
	1	
	1	0.1178
	1	
1	1	0.5896
	1	0.361
	1	
	1	
	1	0.7893
	1	
0,1,1,1	1	0.0403
	1	0.6174
	1	0.02488
	1	0.06135
	1	0.0613
0,1	1	0.4263
	1	
	1	
	1	
	1	0.378
	1	0.1046
	1	
1,1,1,1	1	0.1024
1	1	0.001638
	1	0.02386
	1	0.3632
	1	0.6277
	1	
	1	
	1	

VEP annotated somatic variants

2	0,1	1	0.4039
		1	
	0,1,1,1	1	0.1367
		1	0.4369
		1	
	0,1	1	0.1681
		1	
		1	0.5739
		1	0.2321
		1	
5		1	0.03824
		1	0.119
	1	1	0.08282
		1	
	0,1	1	0.2594
	1	1	0.4891
		1	0.0001883
	0,1,1	1	0.2596
		1	
		1	0.3367
		1	
		1	
	1,0,1,1	1	0.7279
		1	0.3839
		1	
	1	0.2432	
	1		
	1	0.4611	
0,1	1	0.2913	
	1		
	1	0.2032	
	1	0.2503	
	1	0.05641	
	1		
2	0,1	1	0.3873
		1	0.4655
		1	0.003644
		1	
		1	
	1,0	1	0.1703
	0,1	1	
	1,1,1,1	1	0.2567
		1	0.259
		1	0.03444
	1		
	1		
	1		
	1	0.2982	
	1		
	1	0.0104	

VEP annotated somatic variants

		1	
		1	0.6043
		1	0.1538
		1	0.2263
	1,1	1	
		1	0.2468
		1	
		1	0.8936
		1	0.00805
		1	
		1	
		1	0.01316
		1	0.09972
		1	0.5307
		1	
		1	
		1	0.7398
		1	0.09815
		1	0.2348
	0,1	1	0.2286
1		1	0.3253
		1	
		1	0.3096
	0,1	1	0.3886
	0,1	1	0.459
		1	0.3642
		1	
		1	0.2029
		1	0.1426
		1	0.05878
		1	
		1	0.04447
		1	
		1	0.002166
		1	
	1,1,1,1	1	0.1387
		1	0.3767
	0,1	1	0.3191
	0,1	1	0.3167
	0,1	1	0.02309
		1	
	0,1,1	1	0.167
		1	
		1	0.0004807
		1	
		1	0.02236
		1	0.2071
		1	
		1	
		1	
1		1	
		1	0.09076
		1	0.3708

VEP annotated somatic variants

		1	0.1882
		1	0.001346
		1	
		1	
		1	
		1	0.4483
		1	0.7499
	0,1	1	0.4939
		1	
		1	
		1	
		1	0.249
		1	
		1	0.755
		1	0.7038
	0,1	1	0.7458
		1	0.02504
1		1	
		1	
		1	0.7948
		1	0.5743
		1	
		1	
		1	0.2988
	0,1,1,1	1	0.455
		1	
		1	
		1	
		1	0.649
		1	0.2791
		1	
		1	0.09897
		1	
		1	0.2549
		1	
		1	0.4814
		1	0.003056
		1	0.2364
		1	0.1965
		1	
		1	0.5452
		1	0.05559
		1	0.0003296
		1	
		1	0.3822
		1	
		1	0.3552
		1	0.01932
		1	
	0,1	1	0.06482
		1	0.01498
		1	

VEP annotated somatic variants

	1	
	1	
	1	
	1	
	1	
1	1	0.8687
	1	0.4087
	1	0.04869
	1	0.7515
	1	
	1	0.4363
	1	
0,1	1	0.208
	1	0.7009
	1	
0,1	1	0.1121
	1	0.3628
	1	0.3071
0,1	1	0.4656
	1	
0,1	1	0.8382
	1	
	1	0.007984
	1	
	1	
0,1,1	1	0.3493
	1	0.2765
0,1,1	1	0.335
	1	0.06293
	1	0.4101
0,1,1	1	0.1644
	1	
	1	
1,0	1	0.0003955
	1	
	1	0.6258
	1	
0,1	1	0.001271
	1	
	1	0.0008627
	1	
	1	
	1	0.08697
	1	0.1754
	1	0.09871
	1	0.2564
	1	
	1	0.1898
1,0,1,1,1,1	1	0.142
	1	0.2802
	1	
	1	0.4199
	1	



VEP annotated somatic variants

		1	0.02262
		1	
		1	0.4406
		1	
		1	0.2607
		1	0.3305
		1	0.04049
		1	0.00387
		1	
		1	0.5775
		1	0.4029
		1	0.7479
		1	0.4176
	0,1,1,1	1	0.3939
	0,1,1,1	1	0.8497
	0,1,1,1	1	0.3707
		1	0.3593
		1	
		1	0.01465
		1	
2		1	0.2347
		1	
	0,1	1	0.214
	1,1	1	0.3834
	1	1	0.6782
		1	0.3856
		1	0.5883
14		1	
		1	0.3006
	0,1,1	1	0.2874
	0,1	1	0.1211
		1	
	0,1	1	0.5876
		1	
	0,1,1	1	0.6063
	0,1	1	0.4096
	1,0	1	0.6317
	1,1,1	1	0.2457
		1	0.2025
	1,1	1	0.1121
		1	
		1	0.3089
		1	0.000009416
		1	0.5663
		1	
		1	
		1	
		1	
		1	
		1	
		1	0.5257
	1	1	0.005894
	1	1	
		1	

VEP annotated somatic variants

	1	
0,1	1	0.1477
	1	
	1	0.03485
	1	0.5019
	1	0.5267
0,1,1	1	0.3477
	1	0.3457
0,1	1	0.3471
	1	0.3537
1,1,1,1	1	0.06298
	1	0.00789
	1	
	1	0.01144
1	1	0.3544
	1	0.4309
1	1	0.153
	1	
	1	0.7128
	1	
0,1,1	1	0.1639
	1	0.4293
	1	0.278
1	1	0.004033
	1	0.009962
	1	
	1	0.6072
1,1	1	0.0806
	1	0.3274
	1	
	1	
1	1	0.4835
	1	
	1	
	1	0.001315
	1	0.006888
	1	0.005065
	1	0.4465
	1	
0,1	1	0.2093
	1	0.02749
	1	0.02056
	1	0.3364
	1	
	1	0.1163
	1	0.01956
	1	
1,1	1	0.7571
	1	
	1	0.04983
	1	
	1	0.1627
0,1,1	1	0.07839
0,1	1	0.2843

VEP annotated somatic variants

		1	
		1	
		1	
		1	
	1	1	0.06982
		1	0.6581
		1	0.02347
		1	0.1612
	0,1	1	0.1397
		1	
		1	0.04953
		1	
	0,1	1	0.2031
		1	0.4499
3		1	
	0,1	1	0.1508
		1	
		1	0.4805
		1	0.734
		1	
		1	
		1	0.2123
		1	
	0,1,1	1	0.02268
		1	0.2687
		1	
		1	0.5658
		1	0.04918
		1	0.04484
		1	0.03952
	0,1	1	0.254
	0,1	1	0.3
	0,1	1	0.7387
	0,1	1	0.02133
		1	0.1487
		1	
		1	0.1568
	0,1	1	0.2151
2		1	
		1	0.06502
13		1	0.256
		1	0.2431
	0,1	1	0.1523
		1	
		1	0.04708
		1	0.327
		1	0.0224
		1	
	0,1	1	0.2535
	0,1	1	0.3082
		1	

VEP annotated somatic variants

	1	0.1544
0,1,1,1	1	0.1333
	1	0.01137
	1	
0,1,1	1	0.1151
	1	0.2005
0,1	1	0.000009418
	1	
1,0,1,1	1	0.4983
	1	0.0074
0,1	1	0.4497
	1	
0,1,1,1	1	0.2911
1,1	1	0.1618
	1	
0,1	1	0.3386
0,1	1	0.3448
	1	
1	1	0.3483
1	1	0.3409
	1	0.2592
0,1,1	1	0.2478
	1	
	1	0.155
0,1	1	0.175
0,1	1	0.2109
	1	
	1	
	1	
	1	
0,1,1	1	0.2159
	1	0.3893
	1	0.3452
	1	
	1	
0,1,1	1	0.1899
	1	0.284
	1	
	1	0.1699
	1	0.06552
	1	0.2635
	1	
0,1	1	0.3183
	1	0.4058
	1	0.1848
	1	0.4262
	1	
	1	
	1	0.1252
	1	
	1	0.08303
	1	0.4335

VEP annotated somatic variants

1		1	0.218
	1,1	1	0.2656
		1	
		1	0.6425
		1	
	1,1,1,1,1,1,1	1	0.4092
	1,1,1,1,1,1,1	1	0.326
	1	1	0.2021
	1,1,1,1,1,1,1	1	0.3387
	1,1,1,1,1,1,1	1	0.3978
	1,1,1,1,1,1,1	1	0.4012
		1	
		1	0.2372
		1	0.499
		1	0.3469
		1	
31		1	0.2661
		1	
		1	0.2461
		1	
	0,1,1,1	1	0.2603
		1	0.3492
	1,1,1	1	0.1334
		1	0.1333
		1	
		1	0.1173
		1	
	0,1,1,1,1	1	0.1639
	1,1	1	0.1095
	1,1,1	1	0.1345
		1	0.5648
32	0,1	1	0.5154
		1	0.3705
		1	
32		1	0.2837
		1	0.1824
	1	1	0.6116
		1	0.4032
		1	
		1	0.6029
		1	0.5971
		1	0.5971
		1	0.1742
		1	0.4524
		1	0.3627
		1	
		1	0.2707
4		1	0.2773
		1	
		1	
		1	0.0301
		1	0.1412
		1	
		1	

VEP annotated somatic variants

		1	
		1	0.1113
		1	
		1	0.06751
		1	0.1969
		1	
		1	0.3682
		1	
		1	0.09494
		1	
		1	0.5726
		1	
	0,1	1	0.2319
		1	
		1	0.007636
		1	
		1	0.008172
		1	0.007618
		1	
		1	0.4327
		1	0.3563
	0,1	1	0.2216
		1	0.2347
		1	0.9422
		1	
		1	0.4601
8		1	
		1	0.2916
	0,1	1	0.2336
	1	1	0.3478
		1	
		1	0.765
		1	0.2584
	0,1	1	0.6257
		1	0.001015
		1	0.000113
		1	0.4743
		1	
		1	
	0,1	1	0.3327
		1	
		1	
	0,1	1	0.1316
		1	0.154
	1	1	0.55
		1	
		1	0.5601
		1	0.2822
	0,1	1	0.4996
		1	
	0,1,1	1	0.4421
1		1	0.6803
		1	0.7225
		1	
	1	1	

VEP annotated somatic variants

	1	
	1	0.2985
	1	
	1	
	1	
	1	0.4035
1,0,1	1	0.4949
	1	
	1	0.4716
	1	0.00649
	1	
	1	
	1	0.5132
	1	
	1	0.312
	1	0.2284
	1	0.221
	1	
0,1	1	0.4077
0,1	1	0.5661
	1	
	1	0.208
0,1	1	0.2548
	1	0.6495
0,1	1	0.6585
0,1	1	0.2595
	1	0.1549
	1	0.7948
	1	0.443
0,1,1	1	0.08305
	1	
	1	0.5814
1,0,1	1	0.3997
1,0	1	0.1579
1	1	0.00323
	1	0.0000377
1	1	0.5656
	1	
	1	
	1	
	1	
	1	0.5143
1	1	0.4147
	1	
0,1	1	0.3382
	1	
	1	
0,1,1	1	0.365
	1	
	1	0.3874
	1	0.8906
	1	
1,1	1	0.8516

VEP annotated somatic variants

		1	0.8659
		1	
		1	
		1	0.0006501
		1	0.003633
		1	0.2077
1,1		1	0.125
		1	0.3026
		1	
		1	
0,1		1	0.2086
		1	0.2128
		1	
0,1		1	0.04482
		1	0.083
		1	
		1	0.5252
		1	0.524
		1	
1		1	
		1	
		1	
		1	
		1	
		1	
0,1		1	0.08316
		1	
		1	0.002731
5		1	0.3184
		1	0.3669
		1	
		1	0.02612
		1	0.2453
0,1		1	0.1826
		1	
		1	0.1228
		1	0.5826
0,1		1	
		1	
		1	0.2683
		1	
		1	0.08478
		1	0.00009245
0,1		1	0.1449
		1	
		1	0.1683
1,1		1	0.4561
		1	0.1598
		1	0.1573
1,1,1		1	0.3943
		1	
		1	0.7934
		1	
		1	0.03341



VEP annotated somatic variants

		1	
		1	
		1	
1		1	
		1	
		1	0.3942
		1	0.7786
		1	
		1	
		1	0.08884
		1	
		1	0.2482
		1	
		1	0.1935
		1	
		1	0.2603
		1	
		1	0.1077
		1	0.4799
	0,1	1	0.08481
	0,1	1	0.5662
		1	
		1	
1		1	
	0,1,1	1	0.2501
		1	
		1	0.008436
		1	
		1	0.3628
		1	0.5499
		1	0.08542
		1	0.1663
		1	
		1	
	0,1	1	0.02811
	0,1,1	1	0.09463
		1	
	1	1	0.006544
		1	0.1406
		1	0.3243
		1	0.335
		1	
		1	0.01488
		1	
		1	0.7823
		1	
		1	0.3137
1		1	
	0,1	1	0.1867
		1	
		1	
		1	

VEP annotated somatic variants

	1	0.1977
	1	0.6057
	1	0.4528
	1	
	1	0.0005865
	1	0.2646
	1	
	1	
	1	0.626
	1	
	1	
0,1	1	0.2387
1,1,1	1	0.5607
	1	
	1	0.4301
	1	0.2406
	1	
	1	0.2828
	1	
1,1	1	0.08281
	1	0.03084
	1	0.08721
	1	0.1475
0,1,1,1	1	0.2795
	1	0.1769
	1	
0,1	1	0.2092
	1	
	1	
	1	0.02139
	1	0.2923
	1	0.3555
	1	0.5139
	1	
	1	0.007446
1	1	0.2225
	1	0.333
	1	
	1	0.1042
0,1	1	0.1294
	1	
	1	
0,1	1	0.3383
	1	
	1	
	1	0.3059
	1	
	1	
0,1	1	0.0236
	1	0.3417
0,1	1	0.5778
0,1	1	0.004557
	1	0.1913
	1	

VEP annotated somatic variants

	0,1	1	0.6886
		1	0.3925
		1	0.1922
		1	
	1	1	0.4256
		1	
		1	
		1	
	0,1	1	0.01119
		1	0.2711
		1	
		1	0.001686
		1	
	0,1,1	1	0.4173
		1	
	0,1	1	0.09745
		1	
		1	
1		1	0.1437
		1	0.01739
		1	
		1	0.02399
		1	
		1	0.5064
		1	0.1935
		1	0.3416
3		1	
		1	0.002156
		1	0.2302
		1	0.6109
	0,1	1	0.3811
	0,1,1,1	1	0.2857
		1	0.2808
	0,1	1	0.2737
	1,0,1	1	0.3768
	1,0,1	1	0.3786
		1	0.164
		1	0.2199
		1	
		1	
	0,1	1	0.6331
		1	
		1	
		1	
		1	0.2438
	1,0	1	0.06224
		1	
		1	
		1	0.2518
		1	
		1	0.02808
	0,1,1	1	0.009689
		1	0.7207

VEP annotated somatic variants

	1	
0,1	1	0.3417
	1	0.0004854
	1	0.004879
	1	0.1785
	1	
	1	
	1	0.07494
	1	0.3845
	1	
1,1	1	0.1272
1	1	0.1265
	1	
0,1	1	0.111
	1	
	1	0.1921
	1	0.2252
0,1	1	0.2688
	1	
	1	
	1	0.001776
	1	0.2689
	1	0.2482
	1	
0,1,1	1	0.5111
	1	0.3933
0,1	1	0.244
	1	0.06265
	1	
	1	
	1	
	1	0.5798
	1	
	1	
	1	0.00008032
	1	
0,1	1	0.4033
	1	0.00005649
	1	0.1751
	1	0.2542
	1	0.2713
	1	
	1	0.7866
	1	
0,1,1	1	0.3653
	1	0.6352
	1	
	1	0.0008345
	1	
1	1	0.01014
	1	
1	1	0.02211
0,1	1	0.6781

VEP annotated somatic variants

	1	
	1	
	1	
	1	
	1	
	1	
	1	0.7352
	1	
	1	
	1	
	1	
	1	0.0058
0,1	1	0.08962
	1	
	1	0.3322
0,1	1	0.6581
	1	
	1	
0,1	1	0.344
	1	0.3546
0,1	1	0.6641
	1	0.6013
	1	0.5113
	1	0.01025
	1	0.001487
	1	
	1	
0,1	1	0.04712
	1	
	1	
1,1,1	1	0.1087
	1	0.4687
0,1	1	0.2118
	1	0.1689
	1	0.1642
	1	
	1	0.07038
	1	
	1	0.004317
	1	
	1	0.00731
0,1	1	0.3746
0,1	1	0.329
	1	
	1	
	1	0.3085
0,1	1	0.3415
0,1	1	0.5435
	1	0.04043
	1	0.2149
	1	0.5765
	1	0.2154
	1	0.08482
	1	

VEP annotated somatic variants

	1	0.02324
	1	0.000009415
0,1	1	0.5676
	1	
	1	0.08619
1	1	0.1421
	1	
	1	
	1	0.2152
	1	0.09412
	1	
0,1,1	1	0.5965
0,1	1	0.05295
	1	0.1201
	1	
	1	0.4803
	1	
0,1	1	0.4279
	1	
	1	0.5388
	1	0.1257
1,1	1	0.2979
	1	0.1779
0,1	1	0.4009
	1	
0,1,1	1	0.3875
0,1,1	1	0.5715
0,1	1	0.5574
	1	0.06103
	1	0.2859
	1	0.007843
0,1	1	0.3934
0,1	1	0.3011
	1	0.7523
	1	
	1	0.2741
	1	0.3903

VEP annotated somatic variants

ExAC_AF_AFR	ExAC_AF_AMR	ExAC_AF_EAS	ExAC_AF_FIN
0.005518	0.05396	0.0002543	0.04989
0.3205	0.5774	0.2962	0.6317
0.283	0.5403	0.2691	0.5682
0.7394	0.6357	0.3062	0.6405
0	0	0	0
0.7128	0.3869	0.08743	0.1535
0.2816	0.1429	0.05769	0.01307
0.114	0.28	0.1495	0.1951
0.9187	0.7993	0.8693	0.7889
0.01206	0.05562	0	0.0618
0	0	0	0
0.02538	0.01347	0.04009	0.0472
0.4397	0.6584	0.5211	0.6358
0.2429	0.2155	0.03117	0.3747
0.203	0.08012	0.005227	0.1727
0.07022	0.319	0.2173	0.4053
0.4207	0.6319	0.4396	0.5312
0	0	0	0
0.6018	0.7981	0.9054	0.5666
0.1224	0.01141	0.08502	0.005888
0.2535	0.3136	0.317	0.1323
0.0121	0.02817	0.02817	0
0.6516	0.1498	0.09091	0.1582
0.5557	0.7123	0.5801	0.531
0.005248	0.015	0	0.02983
0.406	0.3476	0.4178	0.3444
0.2016	0.5565	0.7035	0.5745
0.2538	0.3322	0.4329	0.152
0.2084	0.3152	0.3165	0.373
0.002992	0.002944	0	0.01092
0.04422	0.1825	0.1029	0.2593
0.4951	0.339	0.2118	0.4016
0.8157	0.8086	0.9534	0.7995

VEP annotated somatic variants

0.2194	0.1535	0.002575	0.2597
0.04101	0.2663	0.5322	0.1865
0.05543	0.02803	0.124	0.06819
0.9041	0.7806	0.6799	0.7489
0.1102	0.3415	0.3245	0.3223
0.1093	0.2993	0.06104	0.3316
0.482	0.2441	0.2557	0.2102
0.3004	0.2126	0.5063	0.2215
0.1627	0.243	0.2243	0.2283
0.8586	0.7329	0.9904	0.9086
0.3226	0.2922	0.586	0.1323
0.01812	0.04372	0	0.2248
0.008325	0.05328	0.02734	0.05397
0	0	0	0
0.214	0.2322	0.05783	0.3261
0.2645	0.2394	0.05893	0.3302
0.005927	0.1108	0.001273	0.07666
0.01125	0.04369	0.06217	0.1021
0.416	0.1971	0.1183	0.31
0.3537	0.3838	0.1258	0.1095
0.01825	0.01883	0	0.1625
0.528	0.5275	0.4233	0.2845
0.04555	0.2207	0.7087	0.2152
0.01325	0.02796	0	0.07357
0.8551	0.6134	0.4054	0.7117
0.7768	0.6095	0.4037	0.699
0.2857	0.5	0.4019	0.5
0.07938	0.09383	0.0003821	0.1782
0.2687	0.1372	0.1926	0.2578
0.01404	0.02806	0.0001277	0.07578
0.3084	0.21	0.0938	0.2528
0.02414	0.01897	0	0.08154



VEP annotated somatic variants

0.3743	0.403	0.2557	0.6351
0.2147	0.5242	0.6244	0.4998
0.7854	0.8263	0.9811	0.6289
0.2983	0.26	0.0242	0.141
0.02555	0.02506	0	0.03826
0.0724	0.01368	0.0001363	0.03082
0.02041	0.1366	0.05392	0.1622
0.2629	0.3678	0.7054	0.4289
0.1597	0.06786	0.07738	0.0443
0.3548	0.1631	0.2739	0.2442
0.1928	0.287	0.1058	0.3257
0.4728	0.2168	0.31	0.4205
0.2167	0.1329	0.3213	0.1338
0.9682	0.9696	0.9996	0.9439
0.1785	0.6118	0.5122	0.4427
0.3009	0.2635	0.04627	0.3807
0.6152	0.1997	0.2035	0.3462
0.8836	0.8035	0.4901	0.8349
0.5714	0.4959	0.6534	0.2859
0.03745	0.0609	0.05467	0.09811
0.2293	0.3171	0.001169	0.236
0.01343	0.04826	0	0.1815
0.001558	0.0002944	0	0.00157
0.03489	0.05358	0.0001493	0.2115
0.3026	0.1555	0.02998	0.2139
0.04308	0.009901	0.04124	0
0.2964	0.2097	0.3654	0.1667
0.02315	0.05386	0.1637	0.0904
0.5747	0.8325	0.7796	0.7962
0.3077	0.2172	0.2288	0.3286

VEP annotated somatic variants

0.1763	0.3651	0.3889	0.4858
0.008385	0.03768	0.0001271	0.03901
0.4243	0.4133	0.2239	0.2701
0.266	0.0838	0.07718	0.09739
0.6954	0.5044	0.7336	0.3147
0.6007	0.4585	0.9849	0.5146
0.1915	0.3904	0.4852	0.3242
0.03424	0.1569	0.1129	0.2267
0.3954	0.2931	0.4038	0.1062
0.06865	0.214	0.2446	0.1739
0.3197	0.4805	0.5752	0.1643
0.7053	0.8205	0.838	0.575
0.03184	0.06546	0.038	0.04459
0.5932	0.1244	0.2329	0.1544
0.732	0.3542	0.3786	0.3171
0.2044	0.2738	0.3774	0.2176
0.005032	0.02437	0	0.02849
0.0007723	0.0004462	0.0001272	0.004386
0.5717	0.1289	0.6625	0.1449
0.02478	0.06996	0.06261	0.15
0.0009434	0.01212	0	0.004202
0.4324	0.1529	0.01977	0.1788
0.0845	0.08688	0.0005101	0.1343
0.0003804	0.0004523	0	0.07027
0.2133	0.1413	0.1447	0.2509
0.1977	0.2497	0.4667	0.3788
0.02275	0.04339	0.001278	0.1121
0.003274	0.007191	0.000128	0.03172
0.3124	0.399	0.1037	0.5495
0.1076	0.5075	0.5375	0.3304

VEP annotated somatic variants

0.3679	0.2186	0.1989	0.3181
0.0005919	0.0002699	0	0.001211
0.0007766	0.00009051	0	0.0003031
0.2399	0.08713	0.0001894	0.1608
0.08733	0.08493	0.04643	0.217
0.09789	0.06446	0.2062	0.2312
0.0327	0.1501	0	0.1773
0.4704	0.5098	0.3973	0.2989
0.1239	0.2375	0.04336	0.3299
0.3672	0.686	0.5073	0.5975
0.2901	0.2894	0.4478	0.1509
0.007326	0.04896	0	0.04359
0.08011	0.3665	0.3068	0.4413
0.5651	0.843	0.978	0.6948
0	0	0	0
0.005213	0.01702	0.0001276	0.0193
0.2209	0.1052	0.1534	0.1686
0.3062	0.04545	0	0
0.1556	0.2102	0.2857	0.3158
0.5707	0.449	0.5108	0.3971
0.1297	0.2607	0.4926	0.1163
0.2037	0.3026	0.2471	0.2941
0.2868	0.381	0.3887	0.2768
0.02846	0.04191	0.0003815	0.05095
0.5945	0.8511	0.8305	0.7284
0.5942	0.8065	0.9524	0.6314
0.6325	0.8479	0.9511	0.5582
0.2423	0.1145	0.01915	0.3512
0.06099	0.07491	0.1427	0.2271
0.4422	0.5746	0.5517	0.5063

VEP annotated somatic variants

0.0359	0.05462	0.002543	0.1175
0.2784	0.07784	0.09557	0.0818
0.4068	0.3226	0.3857	0.5417
0.1155	0.2118	0.4945	0.4151
0.9803	0.7375	0.4979	0.8309
0.006184	0.007757	0.0001271	0.08074
0.4279	0.09727	0.09883	0.1532
0.5519	0.3741	0.2481	0.2287
0.03395	0.1375	0.4523	0.1113
0.8228	0.9414	0.8679	0.9244
0.6085	0.3103	0.5895	0.2612
0.05956	0.1317	0.06649	0.3044
0.4138	0.2643	0.3269	0.3961
0.1436	0.3687	0.3266	0.261
0.004006	0.006535	0	0.01141
0.5707	0.4669	0.5857	0.349
0.1133	0.255	0.3692	0.2886
0.3594	0.3797	0.2346	0.3863
0.242	0.6433	0.6114	0.1532
0.3783	0.7811	0.6701	0.5115
0.2003	0.1922	0.3239	0.3061
0.4157	0.09732	0.0102	0.108
0.08782	0.04428	0.0003819	0.06804
0.1095	0.3657	0.3551	0.75
0.001103	0.003927	0.0001272	0.0003025
0.2071	0.05773	0.1754	0.1471
0.001656	0.0034	0	0.003481
0.4545	0.4583	0.7292	0
0.3666	0.3341	0.6916	0.7104

VEP annotated somatic variants

0.3117	0.4147	0.2767	0.5251
0.1525	0.3248	0.3946	0.4423
0.06757	0.2344	0.1343	0.3571
0.8064	0.3844	0.5388	0.3173
0.04902	0.2903	0.3085	0.2864
0.01169	0.02554	0.02044	0.05049
0.4949	0.3889	0.3984	0
0.001894	0.002586	0	0.01104

0	0	0	0
0.636	0.3682	0.5737	0.7052
0.6182	0.3369	0.5447	0.6891
0.1696	0.1055	0.0008899	0.1464

0.3622	0.1964	0.0173	0.2732
0.7704	0.419	0.5713	0.4587
0.2186	0.3045	0.4416	0.251

0.4868	0.6114	0.5998	0.6718
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0.2507	0.09823	0.1478	0.09433
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0.09011	0.1625	0.03779	0.4062
0.1329	0.08659	0.05048	0.06879

0.5032	0.1262	0.2155	0.3462
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0.6796	0.669	0.814	0.4418
0.02278	0.05837	0	0.1284

0.2197	0.591	0.4945	0.216
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0	0	0	0
0.2016	0.4757	0.3797	0.5657

0.5485	0.2522	0.4861	0.4209
0.3384	0.2556	0.2578	0.5

0.1476	0.2294	0.3178	0.2748
0	0	0	0

0.7862	0.5174	0.3015	0.5824
0.001228	0.001966	0	0.001521

VEP annotated somatic variants

0.02603	0.3229	0.223	0.1814
0.4596	0.4795	0.4224	0.6176
0.1478	0.408	0.4467	0.4118
0.006667	0.02397	0.01887	0.07143
0.07271	0.1959	0.2005	0.3229
0.01515	0.01564	0.005544	0.09559
0.005647	0.009045	0.002307	0.04966
0.2249	0.06823	0.1495	0.02601
0.1177	0.4649	0.3484	0.3322
0.9306	0.7908	0.9149	0.6467
0.09204	0.08771	0.01263	0.1229
0.009828	0.01883	0.06779	0.03538
0.3287	0.2491	0.2629	0.411
0.3266	0.2328	0.268	0.4108
0.1384	0.2239	0.2304	0.2809
0.6946	0.6225	0.8858	0.7049
0.1295	0.06083	0.1303	0.1402
0.00445	0.0194	0.0001501	0.01369
0.003756	0.006109	0	0.03116
0.1469	0.3019	0.2572	0.2146
0.7401	0.5755	0.4601	0.374
0.4238	0.2996	0.04416	0.1967
0.03059	0.04947	0.0003818	0.08832
0.01324	0.01783	0	0.07789
0.2429	0.4521	0.3144	0.516
0.02276	0.06353	0.000647	0.08455
0.08722	0.5436	0.5538	0.5354
0.06194	0.1935	0.4324	0.2594

VEP annotated somatic variants

0.04062	0.1748	0.01006	0.2538
0.8292	0.6468	0.5792	0.623
0.1685	0.6174	0.4142	0.6833
0.06711	0.3573	0.1186	0.2633
0.4672	0.732	0.3514	0.4136
0.5133	0.5677	0.3434	0.3884
0.6194	0.7141	0.3475	0.4003
0.684	0.5666	0.7213	0.2572
0.8835	0.6527	0.5494	0.6478
0.6661	0.5832	0.5433	0.552
0.6669	0.5834	0.5438	0.5534
0.03821	0.2788	0.07024	0.1034
0.003756	0.004823	0.0001273	0.02165
0.4744	0.04611	0.02042	0.08057
0.3462	0.08035	0.1249	0.1576
0.08011	0.0443	0.001017	0.08119
0.1028	0.6072	0.5849	0.4716
0.01462	0.03103	0.05379	0.1339
0.5128	0.3173	0.2938	0.6386
0.25	0.1831	0.1947	0.6562
0.2207	0.5813	0.4575	0.5364
0.005296	0.01694	0.0001271	0.01935
0.4775	0.3642	0.1897	0.408
0.1616	0.06194	0.0009709	0.2164
0.6602	0.1878	0.05027	0.1616
0.1441	0.1512	0.05009	0.1367
0.5927	0.4747	0.3361	0.179
0.04445	0.3713	0.1324	0.1369
0.07708	0.5631	0.3081	0.124
0.3215	0.2353	0.5238	0.4756
0.7589	0.3612	0.4889	0.2411
0.7602	0.5961	0.5934	0.6955
0.3073	0.3261	0.2521	0.4877
0.1102	0.1289	0.009098	0.1414
0.00189	0.00437	0	0.02753
0.0327	0.1568	0.03221	0.137

VEP annotated somatic variants

0.5721	0.6379	0.8773	0.6987
0.2393	0.4602	0.1691	0.3646
0.7461	0.9068	0.7967	0.8254
0.1977	0.4172	0.7081	0.4153
0.004376	0.01716	0	0.00984
0.8667	0.8256	0.6866	0.6963
0.8722	0.8267	0.6868	0.6955
0.3705	0.3236	0.5605	0.4187
0.09869	0.1114	0.4075	0.2672
0.04012	0.09506	0.002697	0.2181
0.05273	0.09285	0.05103	0.2204
0.0005214	0	0.0002552	0.0003644
0.01616	0.07024	0.0002621	0.1629
0.2165	0.1649	0.2338	0.3127
0.31	0.4618	0.4293	0.396
0.549	0.6123	0.7638	0.3288
0.132	0.4344	0.4478	0.3358
0.7665	0.4751	0.8117	0.6195
0.1817	0.5035	0.3021	0.277
0.007444	0.01333	0.0002728	0.003579
0.01197	0.1779	0.08212	0.04215
0.5532	0.2329	0.6502	0.2066
0.003093	0.00333	0.0001664	0.06226
0.07732	0.2991	0.204	0.04354
0.2477	0.4205	0.3973	0.45
0.5568	0.6826	0.5907	0.7351
0.3452	0.6831	0.2406	0.7495
0.1577	0.2231	0.2365	0.1559
0.8536	0.7286	0.7026	0.7924



VEP annotated somatic variants

0.1825	0.5121	0.3461	0.4517
0.1899	0.2029	0.0006373	0.3019
0.1082	0.4678	0.2676	0.4145
0.2853	0.4212	0.05921	0.3382
0.001774	0.005534	0	0.001815
0.849	0.5932	0.6821	0.496
0.2919	0.3218	0.3027	0.4215
0.3304	0.5773	0.627	0.6126
0.3549	0.2509	0.2952	0.4341
0.2326	0.6902	0.7594	0.529
0.005982	0.01244	0	0.02654
0.2351	0.2521	0.2571	0.3857
0.1561	0.1691	0.2155	0.2792
0.4732	0.4316	0.3774	0.358
0.2846	0.4449	0.3796	0.3943
0.2544	0.0206	0.03992	0.06955
0.1689	0.01694	0.0002543	0.06955
0.0498	0.1871	0.2535	0.1943
0.05009	0.187	0.2604	0.1943
0.1065	0.1667	0.16	0.3571
0.02973	0.05145	0.01578	0.1538
0.1403	0.2837	0.527	0.3044
0.2075	0.05048	0.007459	0.06018
0.05182	0.2208	0.1349	0.3763
0.1346	0.2201	0.4184	0.2083
0.01072	0.1506	0.2874	0.06214
0.01724	0.2227	0.01929	0.203
0.001138	0.007825	0	0.001038
0.1446	0.3916	0.004577	0.4244
0.06541	0.1369	0.1677	0.1178
0.2697	0.224	0.1856	0.3131
0.6983	0.4558	0.6315	0.4135
0.9948	0.992	1	0.9212
0.04331	0.06043	0	0.1106
0.02037	0.1779	0.3194	0.1116
0.1505	0.3667	0.3718	0.2652
0.05422	0.1294	0.07949	0.2281
0.1065	0.0882	0.005962	0.02719
0.312	0.2583	0.1906	0.209

VEP annotated somatic variants

0.2222	0.2012	0.2671	0.1836
0.1053	0.06893	0.2733	0.07607
0.7113	0.3681	0.5698	0.5171
0.06202	0.1323	0.3642	0.5242
0.7718	0.5474	0.7116	0.5562
0.2467	0.4364	0.6085	0.3059
0.2612	0.3948	0.5097	0.1914
0.2325	0.2249	0.3356	0.1141
0.1003	0.2817	0.1751	0.2871
0.114	0.1667	0.1293	0
0.4982	0.8112	0.8198	0.644
0.05161	0.1622	0	0.3647
0.07712	0.2872	0.1572	0.433
0.1567	0.0288	0.0003377	0.01955
0.2828	0.1776	0.1517	0.2769
0.02083	0.01389	0	0.1667
0.03575	0.08213	0.0006593	0.1625
0.553	0.7518	0.5433	0.6805
0.2901	0.2793	0.4009	0.4193
0.8328	0.8633	0.9553	0.7545
0.009572	0.02695	0	0.04902
0.7543	0.6633	0.6459	0.5774
0.01238	0.01975	0.0004009	0.0114
0.06379	0.1173	0.1391	0.01391
0.0648	0.1167	0.1385	0.01378
0.3496	0.3846	0.3402	0.516
0.5887	0.4392	0.8209	0.4896
0.04405	0.06829	0.0748	0.1348
0.02713	0.09488	0.03407	0.1031
0.0005515	0.001427	0	0.0001512
0.06109	0.006957	0.02505	0.01119
0.259	0.3253	0.2742	0.4642
0.7976	0.5742	0.546	0.5634

VEP annotated somatic variants

0.1815	0.4683	0.7345	0.3979
0.02032	0.4214	0.03767	0.2132
0.3254	0.3208	0.3337	0.3824
0.1673	0.1926	0.1696	0.3529
0.1495	0.573	0.5377	0.5997
0.2446	0.4182	0.2359	0.1988
0.1723	0.05911	0.01809	0.08772
0.1569	0.05651	0.1823	0.115
0.02128	0.0781	0.1548	0.1389
0.209	0.2025	0.3931	0.2641
0.08813	0.515	0.5277	0.5777
0	0	0	0
0.3437	0.2428	0.1697	0.2871
0.6314	0.3241	0.4724	0.2335
0.445	0.8687	0.6546	0.7823
0.1908	0.4873	0.5809	0.3897
0.09712	0.3675	0.4094	0.2353
0.5414	0.4108	0.6953	0.5103
0.4343	0.2835	0.001492	0.3545
0.3599	0.3132	0.1374	0.07106
0.6322	0.3785	0.2108	0.07211
0.1336	0.03372	0	0.05745
0.09753	0.4123	0.4477	0.3969
0.6597	0.6554	0.9152	0.3593
0.0009929	0.000535	0	0.002874
0.1093	0.193	0.04063	0.1894
0.1899	0.2527	0.2455	0.3174
0.2092	0.2516	0.2397	0.3162
0.0105	0.02573	0.0001564	0.03411
0.1712	0.3096	0.4103	0.2977
0.002135	0.007006	0	0.021

VEP annotated somatic variants

0.6957	0.5535	0.447	0.5884
0.02139	0.2588	0.2707	0.09591
0.376	0.2158	0.2384	0.2597
0.2019	0.4894	0.3151	0.255
0.9308	0.768	1	0.898
0.0006711	0.001877	0	0.02756
0.001923	0.0008133	0	0.02245
0.02694	0.04263	0.0005148	0.2188
0.7267	0.4155	0.5698	0.6075
0.7183	0.8839	0.9449	0.7634
0.0234	0.06259	0.06041	0.07801
0.1422	0.2318	0.3316	0.2839
0.07748	0.2102	0.3016	0.2545
0.2994	0.3074	0.2805	0.401
0.1805	0.2058	0.1277	0.3414
0.3192	0.3176	0.165	0.4873
0.5847	0.7079	0.8006	0.3761
0.4729	0.3937	0.3486	0.3593
0.4299	0.5005	0.1749	0.1462
0.08855	0.2975	0.0146	0.4
0.0137	0.0288	0.0002545	0.06197
0.06448	0.01592	0.01032	0.03024
0.0002406	0.0009235	0	0.003239
0.04525	0.04307	0.3939	0.1627
0.4384	0.2674	0.2577	0.3528
0.3991	0.2292	0.2561	0.2579
0.397	0.23	0.2567	0.2576
0.03178	0.006107	0.1967	0.003028
0.5174	0.249	0.3855	0.1322
0.0001238	0.0001802	0	0
0.005765	0.01583	0	0.01063
0.08315	0.2671	0.749	0.08255
0.1298	0.04758	0.03378	0.06868
0.2413	0.3505	0.4903	0.418

VEP annotated somatic variants

0.03651 0.0002341	0.3044 0.000279	0.18 0.0002693	0.2757 0.0003086
0.6213 0.8481 0.1734	0.5533 0.5933 0.5751	0.7045 0.8399 0.6975	0.6923 0.794 0.6571
0.358	0.1364	0.3994	0.2045
0.8463 0.8048 0.8925 0.004977	0.7759 0.756 0.7763 0.00808	0.7132 0.6592 0.6352 0	0.7807 0.71 0.761 0.05593
0.9525 0.3621	0.9088 0.6914	0.9898 0.6286	0.6475 0.5998
0.143 0.5533	0.4337 0.7027	0.482 0.8003	0.4952 0.3761
0.5268 0.4687	0.5949 0.394	0.3152 0.2137	0.772 0.2596
0.5345	0.3148	0.381	0.3333
0.4886	0.2404	0.2797	0.1667
0.3448 0 0.2729 0.05563	0.7155 0.01124 0.1639 0.1414	0.8236 0 0.2664 0.0005137	0.5454 0 0.1784 0.2012
0.3939 0.0523 0.0003311	0.5141 0.04116 0.00008917	0.5261 0.04439 0	0.6408 0.04835 0
0.3431	0.6178	0.4214	0.2519
0.1022 0.004479	0.2954 0.006712	0.7232 0	0.342 0.01925
0.08036 0.005094	0.1232 0.01736	0.07488 0	0.0319 0.008085

VEP annotated somatic variants

0.8262	0.9059	0.6711	0.822
0.1322	0.5205	0.09566	0.5347
0.00785	0.1956	0.001186	0.0312
0.8512	0.7943	0.897	0.7818
0.2609	0.2711	0.6762	0.4744
0.4896	0.1291	0.1174	0.2261
0.597	0.7585	0.8755	0.6465
0.05357	0.1957	0.07692	0.25
0.09537	0.1817	0.1773	0.5241
0.5578	0.3272	0.2506	0.3182
0.227	0.5011	0.646	0.4083
0.2417	0.9147	0.8903	0.9589
0.00348	0.008224	0	0.005639
0.4448	0.3621	0.6342	0.3552
0.2794	0.4908	0.3856	0.3467
0.2434	0.488	0.7696	0.2881
0.1319	0.152	0.09377	0.05305
0.3118	0.5372	0.2852	0.4265
0.07447	0.1372	0.1358	0.1419
0.0001348	0.0001107	0.0009944	0.0004416
0.8356	0.6223	0.6822	0.5314
0.0001104	0.000446	0	0
0.0002255	0.0005371	0	0
0.01244	0.2447	0.1054	0.118
0.1947	0.1683	0.003085	0.3427
0.01899	0.05299	0	0.1768
0.2514	0.1432	0.3567	0.3078
0.1228	0.1145	0.3806	0.2224
0.1495	0.2369	0.09644	0.1103
0.7482	0.5466	0.5325	0.3824
0.6618	0.5934	0.5104	0.3635

VEP annotated somatic variants

0.02872	0.04762	0.04348	0.4333
0.7859	0.5342	0.4667	0.3454
0.4569	0.3366	0.04017	0.1558
0.2047	0.3644	0.1646	0.4416
0.04903	0.04206	0	0.08
0.0005863	0.0004689	0	0.001015
0.8183	0.8134	0.938	0.4027
0.3814	0.4333	0.5625	0.6667
0.8939	0.7382	0.6804	0.7173
0.6781	0.6284	0.6048	0.5626
0.421	0.4437	0.3953	0.3868
0.913	0.8984	0.9997	0.8471
0.2976	0.606	0.3626	0.4014
0.07759	0.3413	0.6189	0.4054
0.002618	0.005756	0	0.004958
0.2385	0.2041	0.03065	0.3809
0.4336	0.1099	0.05894	0.2267
0.1907	0.4507	0.4491	0.4486
0.8836	0.6887	0.8101	0.6538
0.2086	0.4579	0.4444	0.4501
0.4562	0.6385	0.5482	0.6373
0.3097	0.2393	0.3757	0.2565
0.274	0.2413	0.02192	0.2828
0.03015	0.09223	0.2033	0.2143
0.6252	0.6581	0.9925	0.5523
0.4847	0.6758	0.765	0.6253
0.4039	0.491	0.364	0.7809
0.4282	0.6001	0.6354	0.6219
0.08626	0.2575	0.3067	0.2647
0.06189	0.1154	0.0002552	0.2852
0.1428	0.05421	0.0001272	0.1049
0.6983	0.1672	0.08066	0.2834
0	0	0	0
0.1531	0.4295	0.04185	0.6327
0.5552	0.6337	0.5651	0.5409
0.001552	0.004471	0.0001276	0.001362

VEP annotated somatic variants

0.3122	0.2459	0.08661	0.1307
0.007673	0.0177	0.0001273	0.02398
0.4819	0.604	0.3157	0.5475
0.7479	0.5573	0.8596	0.3804
0.3121	0.4715	0.4411	0.4568
0.1802	0.3118	0.374	0.3956
0.205	0.3747	0.4049	0.4235
0.2367	0.3197	0.3739	0.3965
0.01193	0.01576	0.06634	0.06472
0.001338	0.001343	0	0.02152
0.003027	0.005621	0	0.009226
0.2425	0.1795	0.2411	0.4561
0.2336	0.3507	0.1483	0.5688
0.04776	0.2687	0.3305	0.1122
0.2027	0.857	0.427	0.8608
0.0469	0.3663	0.6434	0.3957
0.502	0.6497	0.681	0.2747
0.2917	0.3353	0.2689	0.1373
0.001303	0.001519	0.0002626	0.00711
0.001988	0.005894	0.0003815	0.00605
0.3899	0.7712	0.4913	0.5486
0.2243	0.113	0.01732	0.09444
0.1282	0.3986	0.3665	0.2965
0.4595	0.5508	0.7396	0.5261
0.005747	0	0	0
0.003136	0.0175	0	0.01624
0.001464	0.007722	0	0
0.4078	0.5707	0.4216	0.5607
0.04122	0.3525	0.5014	0.09631
0.08045	0.03665	0	0.0353
0.02284	0.008213	0.0005086	0.01785
0.4222	0.4356	0.3388	0.2519
0.02321	0.235	0.00928	0.08757
0.009091	0.01198	0	0.03143
0.8915	0.8324	0.8972	0.7079
0.1842	0.07787	0	0.075
0.1592	0.07403	0.002417	0.1953
0.2976	0.05836	0.1381	0.05715
0.2664	0.4317	0.3204	0.2291



VEP annotated somatic variants

0.2457	0.03984	0.0173	0.03462
0.735	0.5673	0.6576	0.5635
0.007484	0.01893	0	0.0267
0.117	0.1556	0.1406	0
0.03607	0.05957	0.002415	0.1898
0.09292	0.2514	0.162	0.0386
0.04071	0.1658	0.244	0.2383
0.5113	0.7004	0.8007	0.3759
0.07029	0.1424	0.3457	0.1252
0.4191	0.4324	0.8429	0.5712
0.9461	0.7884	0.8482	0.6662
0.3888	0.2884	0.4875	0.2999
0.003147	0.007274	0	0.01171
0.2483	0.4644	0.3544	0.2897
0.2859	0.6091	0.936	0.6227
0.05868	0.02704	0	0.0605
0.008933	0.0245	0	0.06258
0.01235	0.03393	0	0.07668
0.1447	0.3526	0.14	0.2237
0.4393	0.2584	0.2172	0.3092
0.8234	0.6307	0.453	0.7814
0.004986	0.01073	0	0.07754
0.2683	0.06832	0.1003	0.1899
0.3142	0.08178	0.1046	0.09846
0.6756	0.1143	0.1108	0.1548
0.1122	0.04277	0.001703	0.04087
0.193	0.2267	0.1157	0.2245
0.6722	0.1526	0.5122	0.09053
0.03191	0.2146	0.1107	0.1667
0.01128	0.0301	0	0.06923
0.2	0.5779	0.4296	0.3601
0.1536	0.01324	0.0001275	0.007023
0.5575	0.3488	0.3643	0.4247
0.06237	0.2239	0.3753	0.3522

VEP annotated somatic variants

0.06391	0.08873	0.1595	0.2157
0.1588	0.05241	0.1584	0.107
0.002868	0.003835	0	0.01648
0.1575	0.2277	0.364	0.1163
0.2052	0.2308	0.06529	0.2442
0	0	0	0
0.8209	0.7217	0.8167	0.3761
0.002635	0.001787	0	0.005443
0.2135	0.4517	0.4687	0.5152
0.2708	0.2383	0.2693	0.3277
0.2381	0.09817	0.1108	0.1052
0.3223	0.228	0.1148	0.2438
0.3525	0.2311	0.1169	0.2412
0.3655	0.6853	0.4842	0.3741
0.1992	0.5582	0.4058	0.3314
0.1439	0.3969	0.02431	0.5294
0.103	0.2769	0.2032	0.276
0.1411	0.1494	0.3874	0.124
0.2496	0.1798	0.3454	0.1445
0.5322	0.3048	0.2865	0.3953
0.1644	0.275	0.2906	0.2182
0.3551	0.2603	0.2132	0.4829
0.3122	0.3369	0.4035	0.3928
0.257	0.2848	0.02702	0.1492
0.2747	0.1598	0.3086	0.2154
0.046	0.1021	0.002316	0.2383
0.009045	0.0403	0.1772	0.1258
0.3562	0.2457	0.0006395	0.2393
0.4929	0.4826	0.4501	0.5197
0.438	0.259	0.5486	0.3962
0.1067	0.4919	0.09719	0.1656
0.2364	0.5977	0.3464	0.5536
0.02889	0.04387	0.194	0.1818
0.0437	0.05338	0.1829	0.03118
0.5575	0.344	0.5518	0.3322

VEP annotated somatic variants

0.207	0.1278	0.1912	0.1863
0.4235	0.1531	0.2312	0.1944
0.7327	0.6316	0.8095	0.6258
0.8329	0.2666	0.1512	0.412
0.1005	0.2237	0.1571	0.4008
0.1398	0.3729	0.1923	0.5
0.07581	0.2311	0.1502	0.4108
0.8531	0.2736	0.1629	0.4273
0.7456	0.2636	0.1517	0.4085
0.1248	0.2125	0.2627	0.44
0.5705	0.6182	0.4637	0.6333
0.4537	0.4444	0.3937	0.6667
0.2117	0.2917	0.6481	0.07895
0.3076	0.1299	0.3228	0.2825
0.3265	0.1638	0.07871	0.3056
0.3275	0.2096	0.4194	0.3565
0.386	0.1731	0.007576	0
0.2005	0.3481	0.3249	0.4444
0.2769	0.4131	0.4272	0.2438
0.4134	0.08154	0.06618	0.1833
0.0192	0.1286	0.04353	0.1637
0.06547	0.1153	0.2368	0.2024
0.5157	0.5633	0.4145	0.556
0.642	0.2595	0.4199	0.5671
0.2684	0.4141	0.4251	0.3317
0.3015	0.3018	0.475	0.2836
0.1555	0.1468	0.02875	0.2222
0.5367	0.5212	0.7521	0.5816
0.3571	0.5031	0.4856	0.4453
0.6536	0.7109	0.7506	0.5366
0.621	0.7011	0.742	0.5182
0.6213	0.7013	0.7423	0.5189
0.5057	0.3089	0.3372	0.2742
0.5718	0.5777	0.4646	0.5021
0.2821	0.1716	0.2582	0.4061
0.3323	0.2536	0.1996	0.2867
0.5431	0.6065	0.52	0.6602
0.01465	0.1593	0.003214	0.2047
0.6111	0.3385	0.462	0.2838

VEP annotated somatic variants

0.08284	0.2073	0.002303	0.08258
0.01287	0.2311	0.001045	0.07067
0.2747	0.1209	0.09477	0.1513
0.3585	0.2599	0.3246	0.5029
0.2084	0.05132	0.1516	0.1195
0.5581	0.6123	0.7331	0.4524
0.05317	0.1439	0.0007628	0.2465
0.0006974	0.001252	0.03737	0.006822
0.003861	0.002318	0.03715	0.006655
0.0007641	0.001456	0.04161	0.007681
0.4943	0.5019	0.5714	0.4524
0.6229	0.6286	0.6529	0.4638
0.5192	0.2698	0.1785	0.1227
0.1892	0.2296	0.1732	0.2299
0.9697	0.9741	0.9997	0.944
0.6896	0.5842	0.6011	0.3322
0.3539	0.1911	0.08048	0.2871
0.6396	0.1196	0.05712	0.1508
0.6105	0.4931	0.05517	0.3658
0.791	0.9098	0.9727	0.875
0.1079	0.1623	0.2948	0.2552
0.4279	0.6686	0.6486	0.6729
0.002674	0.001894	0	0.007937
0	0	0	0
0.5651	0.297	0.2575	0.4161
0.08802	0.2109	0.2441	0.3539
0.09993	0.07923	0	0.1474
0.0624	0.1417	0.04346	0.2652
0.242	0.6716	0.742	0.5838
0.7448	0.5127	0.6011	0.4518
0.06562	0.2659	0.2535	0.2765
0.2584	0.409	0.4511	0.6355
0.3209	0.4623	0.6097	0.4912
0.6657	0.7381	0.9135	0.6962
0.9129	0.8012	0.9867	0.8258

VEP annotated somatic variants

0.2332	0.5386	0.2323	0.346
0.1218	0.4984	0.25	0.4929
0.2513	0.5827	0.4258	0.5452
0.6472	0.5668	0.6049	0.4463
0.0009291	0.006223	0	0.02289
0.6667	0.6673	0.8363	0.4137
0.06632	0.1829	0.277	0.334
0.1895	0.2889	0.1719	0
0.09799	0.36	0.2752	0.2063
0.2178	0.3696	0.1042	0.4382
0.1525	0.5216	0.007558	0.7423
0.2123	0.3252	0.2303	0.4024
0.2391	0.3534	0.2822	0.4215
0.4626	0.816	0.8013	0.7044
0.4632	0.8221	0.798	0.704
0.4527	0.3382	0.08714	0.2169
0.3019	0.1001	0.02022	0.1211
0.4592	0.91	0.9889	0.8916
0.4228	0.6044	0.7545	0.3112
0.05145	0.04789	0.05228	0.09252
0.2516	0.5714	0.6456	0.647
0.4394	0.3217	0.4422	0.4107
0.09834	0.1793	0.3126	0.1177
0.01486	0.001789	0	0.0006107
0	0	0	0
0.4627	0.7863	0.6438	0.5519
0.4799	0.5431	0.4544	0.5138
0.2406	0.2689	0.002953	0.573
0.545	0.4258	0.7177	0.2891
0.5554	0.3986	0.2215	0.4061
0.6303	0.3996	0.357	0.3823
0.8331	0.8986	0.6883	0.8825
0.8836	0.867	0.9581	0.8948

VEP annotated somatic variants

0.94	0.9129	0.9454	0.8909
0.0004073	0.000612	0	0.002262
0	0.002688	0	0.0252
0.1132	0.2581	0.2451	0.2651
0.119	0.2022	0.1751	0.1344
0.0544	0.4027	0.3036	0.2895
0.1984	0.1651	0.1516	0.2349
0.2449	0.1657	0.1514	0.2355
0.1092	0.04488	0	0.04794
0.03946	0.04764	0.01286	0.0778
0.2896	0.5663	0.708	0.5275
0.3652	0.5553	0.6943	0.5244
0.03091	0.06329	0	0.1032
0.0007468	0.00114	0	0.002446
0.3025	0.2514	0.3533	0.4385
0.5197	0.3663	0.7886	0.5217
0.01589	0.07613	0.00134	0.08447
0.6374	0.2657	0.1887	0.1816
0.08915	0.151	0.1327	0.2458
0.03021	0.4155	0.08185	0.03932
0.1977	0.7116	0.6019	0.695
0.1019	0.2613	0.05128	0.4902
0.02208	0.03988	0.000509	0.09797
0	0	0	0
0.1294	0.0915	0.0006391	0.1541
0.08881	0.07965	0.1703	0.2658
0.689	0.3838	0.9695	0.6085
0.03457	0.1228	0.1088	0.1808
0.04571	0.185	0.1561	0.2466
0.3954	0.4118	0.6502	0.5484
0.863	0.8185	0.9823	0.7452
0.071	0.01237	0.02181	0.003634

VEP annotated somatic variants

0.1397 0.838	0.4786 0.827	0.1374 0.5062	0.367 0.7421
0.06193	0.1063	0.1467	0.1649
0.3576	0.15	0.4526	0.2679
0.2188	0.1213	0.008535	0.2655
0.3235	0.2087	0.34	0.1438
0.2387 0.1645 0.1382 0.9285	0.1559 0.6531 0.0979 0.7193	0.1461 0.4672 0.1331 0.8477	0.1179 0.531 0.04445 0.5002
0.05008	0.385	0.3819	0.2694
0.06509	0.00831	0.005472	0.0001512
0.2302 0.6964 0.08012 0.4286	0.6364 0.4325 0.03839 0.1675	0.4647 0.4304 0.2767 0.1998	0.4836 0.5758 0.0378 0.09382
0.004685 0.221	0.01803 0.2563	0.0001286 0.1853	0.08203 0.06749
0.001435 0.1464 0.5158 0.7376	0.00616 0.1244 0.3591 0.514	0.0001271 0.2609 0.4218 0.5438	0.001378 0.1365 0.2844 0.4958
0.003549	0.01254	0	0.02028
0.6897	0.8419	0.8825	0.8081
0.3973	0.3478	0.4022	0.2849
0.1348	0.1153	0.0007632	0.1752

VEP annotated somatic variants

0.2349	0.1981	0.3596	0.1539
0.8363	0.6535	0.7022	0.7682
0.444	0.4667	0.2931	0.6597
0.001634	0	0	0
0.1917	0.4192	0.3904	0.1668
0.3683	0.7745	0.8056	0.6883
0.05235	0.1255	0.09266	0.2776
0.7317	0.6322	0.715	0.533
0.5898	0.4483	0.4578	0.4819
0.7324	0.1303	0.1794	0.1306
0.4925	0.5167	0.7536	0.6131
0.2213	0.1682	0.04729	0.03982
0.008877	0.01512	0	0.04672
0.1035	0.0345	0.0003815	0.1057
0.1812	0.2528	0.03536	0.1394
0.1147	0.4096	0.4461	0.2611
0.0649	0.3438	0.5192	0.118
0.1445	0.2045	0.1645	0.2595
0.00662	0.008917	0.0002543	0.03493
0.2936	0.25	0.06818	0.5
0.2795	0.2068	0.05572	0.4511
0.3812	0.4157	0.9835	0.4421
0.003203	0.003709	0	0.0289
0.1662	0.1764	0.1939	0.1999
0.2298	0.2592	0.07479	0.3163
0.1089	0.09214	0.06993	0.09756
0.1751	0.08075	0	0.2222
0.374	0.305	0.3491	0.438
0.05716	0.4232	0.354	0.3837
0.005193	0.007744	0	0.04709
0.08878	0.3266	0.2966	0.3825
0.6615	0.7852	0.852	0.5389
0.0006907	0.001218	0	0.0002208
0.116	0.2305	0.1955	0.2241



VEP annotated somatic variants

0.9049	0.7866	0.6452	0.7136
0.8711	0.3243	0.4201	0.2455
0.2852	0.112	0.101	0.1626
0.4868	0.3694	0.4999	0.3436
0.003544	0.002769	0	0.00605
0.1701	0.3518	0.4236	0.354
0	0.0004495	0	0.0006057
0.2816	0.4055	0.2662	0.4085
0.1806	0.09749	0.4412	0.04325
0.1616	0.08156	0.09812	0.1382
0.005537	0.01425	0.0002082	0.01919
0.006751	0.006075	0	0.04433
0.423	0.4913	0.2484	0.4743
0.1916	0.277	0.1568	0.2152
0.06804	0.3371	0.6581	0.3935
0.0002279	0.0004529	0	0.0007634
0.06718	0.2579	0.5738	0.234
0.1688	0.5779	0.8495	0.6452
0.2379	0.4256	0.2656	0.4112
0.2557	0.343	0.2479	0.3355
0.3479	0.2393	0.3687	0.2526
0.1522	0.2308	0.3662	0.2641
0.8723	0.3121	0.4239	0.2039
0.8593	0.3133	0.4236	0.2039
0.2012	0.0946	0.001161	0.124
0.04492	0.2639	0.005339	0.2499
0.8893	0.7362	0.6609	0.5005
0.04593	0.1981	0.2435	0.2582
0.01136	0.03655	0.08437	0.05519
0.217	0.2559	0.5379	0.2096
0.009069	0.03709	0	0.0331
0.00335	0.006964	0	0.01757
0.7299	0.5603	0.6454	0.7781

VEP annotated somatic variants

0.666	0.4714	0.09321	0.3331
0	0	0	0
0.0012	0.004746	0	0.009078
0.2158	0.07858	0.02835	0.1478
0.02956	0.1146	0.0002644	0.2469
0.09026	0.548	0.4808	0.4141
0.2236	0.08188	0.08698	0.1024
0.2543	0.09914	0.09701	0.1355
0.03329	0.07641	0	0.223
0.2662	0.1275	0.1527	0.1642
0.3027	0.1574	0.3521	0.2487
0.4227	0.3824	0.4335	0.4393
0	0	0	0.01478
0.08148	0.4359	0.2832	0.3667
0.6089	0.6053	0.4	0.6667
0.7944	0.5991	0.2962	0.5614
0.1337	0.6463	0.2777	0.4501
0.1094	0.2796	0.0005552	0.2829
0.04079	0.05594	0.06211	0.2285
0.7712	0.4152	0.3886	0.6148
0	0	0	0
0.7745	0.4571	0.4483	0.3124
0.0001235	0	0	0
0.2259	0.08482	0.1758	0.1373
0.3448	0.3453	0.1533	0.2238
0.0843	0.2511	0.7052	0.4096
0.332	0.8722	0.8213	0.7708
0.3126	0.4501	0.3776	0.3545
0.5304	0.7435	0.5925	0.5649
0.0004078	0.0005624	0	0
0.001435	0.002319	0.003178	0.01906
0.004523	0.006032	0.0001273	0.04482
0.9306	0.7726	0.8214	0.6172

VEP annotated somatic variants

0.7272	0.8274	0.8346	0.7646
0.05832	0.004471	0	0
0.1454	0.214	0.2438	0.02511
0.1094	0.3519	0.1396	0.4537
0.5168	0.5897	0.6104	0.678
0.1831	0.5268	0.4226	0.2835
0.4183	0.5365	0.4209	0.2686
0.857	0.6865	0.526	0.666
0.8189	0.6677	0.5202	0.5076
0.3676	0.6452	0.4007	0.456
0.002278	0.003442	0	0.02536
0.0001215	0.0002785	0	0.009918
0.02778	0.0431	0.003125	0.03484
0.03354	0.09555	0.09871	0.3015
0.5345	0.4886	0.6522	0.5055
0.2096	0.1605	0.1334	0.2365
0.06115	0.2595	0.3246	0.1399
0.1838	0.1865	0.1251	0.147
0.03149	0.01972	0.3034	0.03645
0.001425	0.001171	0.0003871	0.0007569
0.003316	0.002807	0	0.001696
0.6331	0.3937	0.0631	0.3879
0.4417	0.2958	0.1509	0.5271
0.1787	0.4232	0.7055	0.2934
0.7488	0.4983	0.7318	0.4098
0.3881	0.5835	0.2936	0.6742
0.2596	0.04819	0.02795	0.001185
0.2322	0.5969	0.7539	0.2349
0.9162	0.7138	0.8743	0.5369
0.09983	0.5475	0.7457	0.2138
0.01986	0.06322	0.0002567	0.05593

VEP annotated somatic variants

0.003822	0.008525	0	0.03717
0	0	0	0
0.3821	0.6632	0.4365	0.5957
0.2986	0.07701	0.1869	0.07504
0.6917	0.2708	0.2535	0.1838
0.2606	0.5139	0.6695	0.1899
0.02211	0.07198	0.05049	0.1428
0.8236	0.8122	0.7874	0.5333
0.03497	0.08055	0.1966	0.03887
0.01761	0.214	0.391	0.1154
0.8055	0.4775	0.7236	0.4924
0.7186	0.5436	0.5206	0.2846
0.6256	0.5184	0.6328	0.4905
0.2116	0.1435	0.02476	0.1743
0.3511	0.4385	0.469	0.2352
0.03161	0.2189	0.03777	0.2203
0.7168	0.5277	0.5208	0.3017
0.5861	0.3931	0.3639	0.3424
0.7879	0.5879	0.8072	0.5402
0.7117	0.5256	0.6254	0.492
0.07937	0.4833	0.5	0.2727
0.05821	0.2807	0.04046	0.3739
0.001333	0.007321	0.0001274	0.001368
0.8072	0.2505	0.341	0.3058
0.1122	0.2026	0.4928	0.4111
0.8415	0.8134	0.3939	0.7242
0.6214	0.2354	0.1895	0.3266
0.7572	0.4616	0.287	0.3993

VEP annotated somatic variants

ExAC_AF_NFE	ExAC_AF_OTH	ExAC_AF_SAS	GENE_PHENO
0.03852	0.02639	0.01608	1
0.6659	0.611	0.6184	1
0.6329	0.5698	0.5932	
0.7088	0.6387	0.6374	
0.0000552	0	0	1
0.2554	0.283	0.2905	1
0.01094	0	0.05608	
0.2146	0.1988	0.145	
0.8635	0.822	0.7878	
0.07916	0.05825	0.04588	1
			1
			1
0	0	0	
0.03902	0.02915	0.1214	1
0.6369	0.6571	0.699	
0.4204	0.3598	0.2995	1
			1
0.2001	0.1652	0.1442	1
			1
0.3808	0.3113	0.2435	
0.4892	0.4823	0.4759	1
0.0006711	0	0.001581	
0.584	0.6108	0.7575	
0.01294	0.02041	0.02643	
0.1976	0.2115	0.2364	
0.0482	0.05263	0.08418	
0.185	0.2229	0.3664	
0.6053	0.6225	0.5105	1
0.05142	0.03205	0.02327	1
0.4687	0.4023	0.4272	
0.4764	0.5362	0.4871	1
			1
0.1137	0.1441	0.3089	
0.3572	0.3172	0.1829	
0.02422	0.01156	0.001829	1
0.2516	0.2277	0.1777	1
			1
0.4315	0.4238	0.4052	1
			1
0.7068	0.6983	0.765	1

VEP annotated somatic variants

0.3358	0.271	0.1441	
0.1615	0.2139	0.1538	1
0.08443	0.07205	0.07811	
0.7525	0.7334	0.8279	
0.4136	0.3889	0.3771	
0.2844	0.2653	0.2924	1
0.2122	0.1977	0.1388	
0.1396	0.2042	0.2433	
0.209	0.2194	0.2111	
0.8221	0.8378	0.8787	1
0.1232	0.2056	0.2046	
0.128	0.07948	0.02529	
0.06035	0.04638	0.02365	1
0.00001848	0	0.00006118	1
			1
0.3484	0.2753	0.1445	
0.354	0.2807	0.1506	
0.03292	0.05217	0.02982	
0.07289	0.0634	0.03078	
0.3123	0.2741	0.3292	
0.1127	0.167	0.2466	
0.1164	0.05155	0.008339	
0.29	0.3055	0.2772	
0.1693	0.1835	0.2491	
0.07615	0.05347	0.01586	
0.7398	0.5664	0.5483	
0.7424	0.5641	0.542	
0.6942	0.5135	0.4613	
0.2307	0.1616	0.1598	
0.2177	0.2186	0.1657	
0.07687	0.05652	0.02271	1
			1
0.299	0.2751	0.2519	1
0.05088	0.07015	0.06787	

VEP annotated somatic variants

0.5904	0.5397	0.4367	1
0.3652	0.3381	0.2509	
0.5798	0.6393	0.6754	1
0.1601	0.1407	0.2091	
0.04818	0.02594	0.01041	1
			1
0.02991	0.0302	0.01866	1
0.1178	0.1297	0.104	1
0.3318	0.3516	0.2818	
0.08152	0.0913	0.06437	
0.2276	0.2196	0.3735	1
			1
0.2972	0.2551	0.2332	
0.4683	0.3775	0.3234	1
0.2386	0.2795	0.531	
0.9115	0.9428	0.9892	
0.3752	0.4245	0.5155	
0.325	0.2652	0.2235	
0.3899	0.3899	0.3175	1
0.7751	0.7579	0.7354	
0.341	0.415	0.4736	1
0.1364	0.1145	0.1627	1
0.1803	0.1488	0.07199	
			1
0.1379	0.09677	0.06909	1
			1
0.0091	0.001529	0.0009057	
			1
			1
			1
			1
0.1643	0.1377	0.03113	
0.3443	0.2847	0.2064	
0.03679	0	0.05928	
0.2109	0	0.3775	1
			1
0.1208	0.1199	0.1394	
0.7334	0.7457	0.6258	
0.3057	0.2738	0.2442	

VEP annotated somatic variants

0.3262	0.3793	0.3218	
0.06521	0.06196	0.01482	
0.4596	0.3736	0.48	
0.1474	0.1391	0.2509	
0.3095	0.3256	0.2955	
0.4958	0.5337	0.6212	
0.2375	0.3187	0.3886	
0.225	0.222	0.2873	1
0.086	0.1095	0.1567	
0.1242	0.1576	0.2928	
0.1841	0.2261	0.3026	
0.6066	0.6568	0.7102	1
0.09809	0.06575	0.07876	1
0.2014	0.1614	0.1215	1
0.3209	0.3906	0.3209	1
0.235	0.2232	0.3949	
0.03746	0.01869	0.002922	1
0.00416	0.004335	0.0007925	1
0.1851	0.2159	0.3442	1
0.1094	0.1171	0.1023	1
0.01718	0.009434	0.01133	1
0.1708	0.1733	0.2323	1
0.132	0.1485	0.04206	
0.005679	0.01757	0.006198	
0.2853	0.2799	0.3598	
0.3386	0.3299	0.349	1
0.1268	0.0791	0.02734	1
0.0181	0.01355	0.002328	
0.5129	0.4774	0.2559	
0.2655	0.2924	0.3541	



VEP annotated somatic variants

0.3035	0.2834	0.308	1
0.002958	0	0	
0.002619	0.001453	0.0001225	
0.1943	0.1512	0.03933	
0.2252	0.2	0.1631	1
0.1514	0.1612	0.1778	
0.1845	0.1644	0.02423	1
0.3456	0.3804	0.2847	1
0.3214	0.3012	0.2351	
0.6096	0.611	0.6013	
0.1442	0.1988	0.264	
0.06086	0.04118	0.01094	1
0.4199	0.4006	0.4468	
0.6438	0.6922	0.7989	
0	0	0.0007286	
0.0274	0.02985	0.003031	
0.2032	0.1902	0.1947	1
			1
0.02448	0.01613	0.005343	
0.1198	0.1393	0.06704	1
0.3756	0.3719	0.3371	1
			1
0.1202	0.187	0.1276	
0.3441	0.2407	0.2672	
0.3596	0.3387	0.4388	
0.08301	0.07061	0.08966	
			1
0.6833	0.698	0.6608	1
0.5445	0.6239	0.6695	
0.6154	0.6526	0.7008	1
0.2454	0.2349	0.2709	1
0.189	0.1749	0.1787	
0.5762	0.5263	0.5144	

VEP annotated somatic variants

0.1217	0.1239	0.1642	1
0.07601	0.08095	0.1452	1
0.5604	0.5635	0.4721	1
0.3267	0.3186	0.2452	
0.8916	0.8862	0.8991	
0.04607	0.03613	0.007591	
			1
0.207	0.1879	0.06418	
0.2323	0.2521	0.2726	1
0.102	0.1203	0.2072	1
0.9092	0.8948	0.8288	1
			1
0.3129	0.3199	0.4294	
0.2714	0.2147	0.1784	
			1
0.4035	0.3458	0.3273	1
0.1764	0.1772	0.2125	1
0.01307	0.007267	0.001604	
0.4192	0.4638	0.6637	1
0.2617	0.2705	0.1563	1
			1
0.403	0.3801	0.3517	
0.2092	0.2353	0.406	1
0.523	0.4986	0.4624	1
			1
0.3952	0.3601	0.3152	1
0.1766	0.1792	0.1509	1
			1
0.0696	0.06541	0.06534	1
0.3722	0.4889	0.3626	1
0.006536	0.002924	0.02468	
0.1144	0.1326	0.1312	
0.01197	0.01153	0.002015	
0.6171	0.7308	0.5588	
0.6064	0.587	0.644	

VEP annotated somatic variants

0.5569	0.5306	0.4773	
0.4761	0.4607	0.4909	
0.2393	0.21	0.2099	
0.2907	0.3798	0.4286	1
0.2792	0.2637	0.2094	
0.04188	0.07493	0.1856	1
0.4039	0.3136	0.3492	
0.01278	0.01009	0.003108	1
0.00001899	0	0	
0.714	0.7015	0.723	
0.6995	0.6826	0.7131	
0.2219	0.1513	0.06517	
			1
0.2461	0.2536	0.2292	
0.4967	0.5017	0.5369	
0.2546	0.2522	0.2625	1
			1
0.6938	0.6647	0.6038	
0.1625	0.1686	0.1795	
0.4347	0.3545	0.2074	1
0.146	0.1369	0.1505	1
0.3097	0.281	0.2488	
			1
0.4358	0.5287	0.5706	1
0.1478	0.1159	0.03183	1
0.2796	0.3194	0.5179	
0.001222	0	0	
0.5816	0.5672	0.609	
0.3202	0.3661	0.3836	
0.2883	0.339	0.2641	
0.2536	0.2764	0.2761	
0.0001141	0	0	1
			1
			1
0.5029	0.5	0.5529	1
0.005304	0.005814	0.003396	

VEP annotated somatic variants

0.1581	0.1274	0.2755	1
			1
0.5572	0.4355	0.5588	
0.3842	0.5278	0.5122	
0.04878	0.05814	0.06951	
0.3386	0.3438	0.3298	
0.07746	0.04746	0.03767	
0.03472	0.05172	0.01305	
0.01783	0.05217	0.09526	
0.2503	0.2534	0.2362	
0.6697	0.7097	0.7559	
0.191	0.1949	0.1092	1
0.04908	0.04755	0.05967	
0.3655	0.3923	0.1804	
0.3711	0.4035	0.1692	
0.2126	0.2462	0.3127	
0.7359	0.7118	0.6869	1
0.1572	0.1529	0.1575	1
0.0371	0.02063	0.009311	1
			1
			1
0.01849	0.01208	0.003001	
0.2396	0.2303	0.3229	
0.3166	0.3665	0.3448	
0.2306	0.2199	0.199	1
0.1131	0.09157	0.09182	1
			1
0.07852	0.04467	0.03974	1
0.4941	0.4405	0.3718	1
0.1277	0.1083	0.0549	
0.4663	0.4798	0.4001	1
			1
			1
0.2789	0.3026	0.3195	

VEP annotated somatic variants

0.2397	0.2246	0.1342	
0.6519	0.6383	0.6927	1
0.6768	0.5952	0.2397	
0.2727	0.2403	0.2738	1
0.4349	0.4597	0.3211	
0.376	0.4035	0.289	
0.3853	0.4236	0.3012	1
0.3577	0.3501	0.4623	
0.6174	0.611	0.5487	
0.4968	0.4919	0.4889	
0.4975	0.4951	0.4865	
0.07481	0.09545	0.06971	1
0.01834	0.02017	0.01628	1
0.07542	0.06902	0.01243	
0.1961	0.1758	0.2333	1
0.09383	0.07493	0.06043	
0.4478	0.429	0.4427	
0.09367	0.1111	0.07048	1
0.5709	0.4833	0.3622	1
0.212	0.2049	0.1654	1
0.4326	0.471	0.6544	
0.0271	0.02882	0.002804	
0.3758	0.3497	0.2914	
0.154	0.1473	0.138	
0.163	0.1435	0.05425	1
0.1368	0.1075	0.05082	1
			1
0.2667	0.3348	0.4015	
0.1897	0.1715	0.1134	
0.169	0.1627	0.281	
0.5266	0.5	0.5328	1
0.28	0.3184	0.4225	
0.7562	0.7472	0.6436	
0.4344	0.3243	0.1682	
0.1533	0.1206	0.133	
0.01537	0.01014	0.003664	
0.1033	0.09012	0.04913	

VEP annotated somatic variants

0.6034	0.5662	0.6087	
0.3413	0.2971	0.2888	
0.8394	0.8242	0.8508	
0.3159	0.4222	0.4362	1
0.03241	0.02609	0.01256	
0.6785	0.7248	0.7463	1
0.679	0.7248	0.748	1
0.4615	0.4725	0.4134	1
0.1869	0.1931	0.2479	
0.2287	0.1947	0.1221	
0.2193	0.1911	0.1247	
0.001078	0	0.00009126	
0.1112	0.1238	0.1257	
0.2665	0.2725	0.3118	
0.3112	0.3393	0.3432	
			1
0.4062	0.4193	0.5361	
0.3011	0.2994	0.3577	
0.6961	0.6551	0.6407	1
0.3199	0.3718	0.4486	
0.01829	0.01235	0.03342	
0.06175	0.04348	0.01317	1
0.2075	0.245	0.3686	
0.02064	0.01732	0.0002989	1
			1
			1
0.0542	0.08213	0.1872	1
0.4919	0.5347	0.5387	
0.7342	0.7391	0.6392	
0.7602	0.7152	0.6305	
0.2311	0.2161	0.2107	
0.7705	0.7333	0.5925	1
			1

VEP annotated somatic variants

0.4131	0.4099	0.3189	1
0.3284	0.2333	0.09024	1
0.3719	0.3681	0.2898	1
0.3419	0.3763	0.3647	
0.01008	0.005848	0	
0.3848	0.4905	0.6038	1
0.4316	0.3709	0.304	1
0.5836	0.5548	0.5377	1
			1
0.4024	0.4503	0.462	
0.5261	0.5712	0.5766	1
			1
0.0286	0.02035	0.003109	1
0.4032	0.3344	0.3347	
0.241	0.2536	0.2343	
0.3621	0.3473	0.2184	
0.4127	0.3761	0.2521	
0.02304	0.03026	0.01767	
0.023	0.02882	0.01585	
0.1764	0.1979	0.193	
0.1756	0.1974	0.184	
0.1548	0.1508	0.07631	
0.1484	0.1052	0.05589	1
0.2907	0.2695	0.3493	
0.07308	0.09422	0.1985	
			1
0.3118	0.2752	0.2732	1
0.1124	0.2097	0.2142	
0.04583	0.1007	0.1434	
0.1125	0.102	0.01515	
0.009382	0.009542	0.01516	
0.4698	0.4784	0.3201	
0.1322	0.1369	0.08772	
0.3527	0.3271	0.2359	
			1
0.5029	0.4966	0.5275	
0.9549	0.9757	0.9993	
0.1368	0.118	0.03272	
0.1136	0.09416	0.1032	
0.2697	0.2565	0.1986	
0.2236	0.2122	0.2808	
0.08864	0.05193	0.05357	1
0.3028	0.3333	0.4186	

VEP annotated somatic variants

0.1354	0.1667	0.1333	1
0.08871	0.0879	0.2153	1
0.5452	0.552	0.5764	
0.5062	0.3781	0.203	1
0.4904	0.5587	0.5557	
0.2436	0.4012	0.4504	
0.1468	0.2393	0.3096	
0.08294	0.1667	0.09878	
0.3208	0.328	0.4263	
0.2314	0.0625	0.1003	
0.6361	0.6455	0.7246	
0.2844	0.1942	0.1566	1
0.2844	0.2666	0.1765	
0.04099	0.05769	0.05127	1
			1
0.3261	0.2978	0.2745	
0.04739	0	0.02469	
0.1986	0.1475	0.0535	
0.6034	0.5928	0.4968	
0.336	0.4306	0.4967	1
			1
0.7296	0.7873	0.8698	
			1
0.06134	0.05523	0.0113	
0.6502	0.711	0.7751	
0.03855	0.03395	0.01676	
0.04733	0.05638	0.05684	
0.04712	0.05491	0.05192	
0.4705	0.4026	0.3603	1
0.4947	0.4452	0.5711	
0.1286	0.1239	0.08666	
0.1334	0.1254	0.07807	1
0.002797	0	0	1
0.01958	0.01012	0.03441	
0.4487	0.4113	0.4627	
0.6165	0.6153	0.6734	
			1



VEP annotated somatic variants

0.3915	0.3818	0.3736	
0.1232	0.1437	0.07568	1
0.4688	0.4321	0.5467	1
0.3196	0.2538	0.2089	1
0.6488	0.6138	0.5671	
0.2216	0.178	0.1678	1
0.06743	0.0538	0.04918	
0.1319	0.1283	0.08433	
0.1178	0.1036	0.02448	1
0.2701	0.2507	0.2478	
0.5419	0.5652	0.4887	1
0.0004025	0	0	1
0.2776	0.3062	0.2532	
0.3401	0.3353	0.3972	1
0.7682	0.7723	0.6681	
0.3374	0.4092	0.476	1
			1
0.2282	0.2205	0.2143	
0.4494	0.4397	0.3691	1
0.3465	0.3226	0.1448	1
			1
0.1438	0.1916	0.3236	
0.1529	0.2176	0.4139	
0.06755	0.06176	0.02281	
0.4447	0.3991	0.3086	1
0.3374	0.4249	0.4841	1
0.005834	0.007205	0.001889	
			1
0.2344	0.1919	0.1352	1
0.2616	0.2791	0.2624	1
0.2641	0.2876	0.2596	1
0.06454	0.04038	0.01392	
0.3089	0.2847	0.2732	
			1
0.0149	0.008798	0.003657	

VEP annotated somatic variants

0.6433	0.6311	0.5423	
0.125	0.1895	0.2134	
0.216	0.2277	0.1659	1
0.2338	0.245	0.1132	
0.8956	0.9247	0.9859	
0.01046	0.008671	0.004456	
0.02127	0.0177	0.004239	
0.1478	0.1515	0.03592	
0.5287	0.5394	0.4782	
0.7269	0.7621	0.7051	
0.1191	0.1177	0.1228	
0.285	0.2928	0.2275	
0.2584	0.2529	0.1886	
0.4052	0.4064	0.3537	1
0.3466	0.3112	0.4061	
0.4305	0.379	0.4054	
0.3634	0.4092	0.4089	
0.3674	0.3512	0.3434	
0.2155	0.2064	0.2409	
0.2703	0.2544	0.2137	
0.08661	0.06324	0.04185	
0.03568	0.04863	0.1188	
0.002887	0.003049	0.003019	
0.1225	0.1306	0.203	1
0.4334	0.3907	0.3105	
0.3472	0.3377	0.3007	
0.3466	0.3412	0.2968	
0.00829	0.01884	0.005463	
0.08345	0.1235	0.1173	
0.0008591	0.001488	0.00006289	
0.03971	0.01075	0.0303	
0.1229	0.1841	0.3056	
			1
			1
0.1065	0.1017	0.1514	
0.3624	0.3939	0.4156	

VEP annotated somatic variants

0.193 0.0004438	0.1931 0	0.1451 0.002382	
0.6985 0.7362 0.6229	0.7 0.7783 0.5652	0.7323 0.7908 0.4685	1
0.2689	0.2729	0.2534	1
0.7415 0.6777 0.7263 0.02825	0.7566 0.7199 0.7507 0.03913	0.7646 0.7495 0.7696 0.03645	1 1 1 1
0.7126 0.5567	0.7795 0.6181	0.8695 0.661	1
0.3686 0.3635	0.4065 0.4078	0.3964 0.4037	1
0.721 0.2592	0.7052 0.2757	0.653 0.2861	1 1 1
0.3093	0.2833	0.3598	
0.2369	0.2581	0.3045	
0.4865 0.01495 0.2278 0.2698	0.5215 0 0.2228 0.2471	0.5537 0.0002456 0.3264 0.1645	1
0.586 0.07949 0.0005706	0.5411 0.07854 0	0.5064 0.04352 0	1
0.3137	0.3783	0.51	1
0.3407 0.03202	0.3627 0.02193	0.4246 0.003551	
0.04315 0.02863	0.09654 0.02344	0.09553 0.01099	

VEP annotated somatic variants

0.8489	0.8176	0.7906	
0.4982	0.4789	0.3761	
0.03784	0.05992	0.1153	
0.7207	0.7486	0.6943	
0.4233	0.4243	0.5559	
0.1912	0.1789	0.2266	
0.6917	0.6874	0.6985	
0.3436	0.3333	0.2162	1
0.4613	0.4083	0.3609	
0.324	0.2486	0.1275	
0.4664	0.4856	0.5072	
0.9082	0.8989	0.8544	
0.01268	0.01228	0.002785	
0.2624	0.3098	0.4398	
0.3049	0.3221	0.2152	
0.3051	0.3485	0.4636	
0.03152	0.04899	0.05887	1
0.4233	0.4075	0.3741	
0.1995	0.1806	0.1845	
0.0005203	0	0.00009953	1
0.6232	0.6239	0.5447	1
0.0003865	0.002882	0.006462	
0.002137	0.002793	0	
0.06349	0.09644	0.08139	1
0.3143	0.2635	0.1866	
0.1301	0.1103	0.1005	
0.2632	0.2507	0.2485	
0.1766	0.1662	0.2193	
0.1296	0.1488	0.1502	1
0.3922	0.4425	0.3747	
0.3601	0.4305	0.3821	1

VEP annotated somatic variants

0.11	0.0625	0.04054	
0.3636	0.4288	0.4839	
0.2558	0.244	0.2939	
0.3558	0.3372	0.3372	
0.0678	0.0625	0.04144	1
0.006106	0.00463	0.004492	
0.4187	0.5107	0.7166	
0.3776	0.4831	0.5088	
0.7213	0.7133	0.8133	
0.5348	0.5566	0.63	1
0.3419	0.4026	0.5239	
0.7863	0.8464	0.9236	
0.3095	0.3962	0.5344	
0.3611	0.3916	0.3833	
0.02433	0.01765	0.006735	
0.3777	0.3454	0.1837	
			1
0.2354	0.2046	0.1624	1
0.4022	0.3833	0.3242	1
0.6129	0.6527	0.723	1
0.4108	0.3947	0.317	1
0.5902	0.5953	0.6318	1
			1
0.2589	0.3052	0.4507	
0.3335	0.3212	0.3045	
0.186	0.1325	0.1065	
0.5042	0.5493	0.6218	
0.5849	0.6094	0.6355	
0.6246	0.5385	0.4986	
0.7338	0.7225	0.7156	1
0.267	0.2277	0.2192	1
0.2939	0.2201	0.0962	
0.157	0.1167	0.04242	1
			1
0.3636	0.3207	0.2431	1
0.00002006	0	0	1
0.7575	0.6286	0.4769	1
			1
			1
0.5509	0.5239	0.4708	
0.007339	0.01153	0.008899	1

VEP annotated somatic variants

0.104	0.1341	0.1738	
0.04701	0.05132	0.0418	
0.5213	0.4408	0.457	
0.442	0.487	0.5672	1
0.4246	0.4577	0.5411	
0.3299	0.3766	0.5271	
0.3847	0.3987	0.5268	
0.3318	0.381	0.5052	
0.08427	0.04848	0.05754	
0.01209	0.008955	0.0007433	
0.01839	0.007246	0.003951	
0.408	0.4072	0.3724	
0.5427	0.5418	0.4168	
0.1406	0.1369	0.1056	1
			1
0.8232	0.7726	0.6377	1
			1
0.2736	0.2647	0.3235	1
0.395	0.3714	0.2983	
0.3015	0.264	0.2849	
0.002535	0.008696	0.01256	1
0.01598	0.005848	0.004174	
			1
0.6613	0.5997	0.5327	
0.1048	0.09091	0.08621	1
0.3457	0.3427	0.4277	
			1
0.5357	0.5332	0.4577	1
			1
0.00354	0	0.003014	
0.02222	0.02907	0.002598	
0.03035	0.05814	0.0053	1
0.483	0.5206	0.3697	
0.1494	0.1988	0.3117	
0.06325	0.03247	0.01288	
0.02393	0.02762	0.02783	
0.3155	0.3387	0.3529	
0.1113	0.1113	0.1663	
0.0443	0.0177	0.002548	1
			1
0.6863	0.7118	0.8225	1
			1
0.1222	0.1667	0.3145	1
			1
0.2031	0.1623	0.1566	1
0.0832	0.09845	0.1123	
0.2242	0.2579	0.3989	1

VEP annotated somatic variants

0.05114	0.06772	0.0949	1
0.6831	0.6257	0.6365	1
0.03439	0.0218	0.008965	
0.1697	0.1441	0.1985	1
0.187	0.147	0.1401	
0.04325	0.07609	0.1261	
0.225	0.2222	0.2247	1
0.3626	0.4049	0.4025	
0.1544	0.1637	0.1096	
0.3893	0.5145	0.6391	
0.694	0.7291	0.7121	
0.1949	0.2912	0.2759	
0.02452	0.03254	0.05621	1
0.222	0.2945	0.4375	
			1
0.549	0.6297	0.5443	
0.06118	0.05764	0.0381	
0.06356	0.05752	0.03715	
0.08738	0.07396	0.05432	
0.2788	0.2565	0.2333	
0.3064	0.2861	0.2691	
0.7868	0.7847	0.7265	
0.02555	0.03324	0.01098	
0.1779	0.1636	0.1051	
			1
0.1533	0.1797	0.2329	
0.1891	0.2256	0.2663	
			1
0.08718	0.04574	0.03284	
0.2625	0.2954	0.3673	
0.1471	0.1816	0.3274	
0.1809	0.1758	0.09508	1
0.08253	0.05469	0.01633	1
0.3652	0.412	0.3853	
0.01452	0.01462	0.001596	
0.3465	0.3276	0.4625	
0.3713	0.353	0.2458	

VEP annotated somatic variants

0.1672	0.183	0.1906	
0.1366	0.1313	0.1688	
0.01785	0.01153	0.00317	1
0.06556	0.1037	0.0605	
0.2358	0.1778	0.1205	1
0.00001886	0	0	1
0.3723	0.4539	0.4851	
0.01296	0.00578	0	1
0.4829	0.4859	0.5661	
0.2954	0.2834	0.3666	
0.1863	0.1455	0.1322	1
			1
0.4148	0.3483	0.326	1
0.4221	0.3422	0.3446	1
			1
0.3717	0.431	0.4332	
0.3029	0.3466	0.3777	
0.4893	0.3375	0.2696	1
0.2846	0.2435	0.1925	
0.1103	0.1441	0.2175	
0.1271	0.1556	0.2212	
0.3677	0.3052	0.1875	1
			1
			1
			1
0.2053	0.2259	0.2278	
0.4679	0.3862	0.2837	
0.3918	0.3406	0.177	
			1
0.2146	0.1855	0.1031	
0.2933	0.3452	0.3982	
0.2373	0.1884	0.1115	1
0.05347	0.07781	0.07557	
0.3259	0.2681	0.1579	1
			1
0.4736	0.5	0.559	
0.4053	0.4099	0.4549	
0.1618	0.1794	0.1544	
0.5144	0.4703	0.5147	
			1
			1
			1
0.1306	0.164	0.1838	
0.1008	0.06812	0.03931	1
0.4304	0.4594	0.4249	1



VEP annotated somatic variants

0.2509	0.2602	0.208	1
0.2784	0.2971	0.2647	1
			1
0.622	0.6697	0.6551	
0.4233	0.4188	0.36	1
0.3937	0.3815	0.345	1
0.5112	0.41	0.4158	1
0.4163	0.3939	0.361	1
0.4349	0.4316	0.3677	1
0.4255	0.4196	0.3701	1
			1
0.3157	0.291	0.3011	
0.5672	0.6142	0.599	
0.4416	0.3644	0.4558	
0.177	0.234	0.3413	
0.2744	0.2434	0.1565	
0.2851	0.3038	0.2794	1
0.3343	0.3284	0.4851	1
0.2961	0.2034	0.1543	1
0.4263	0.4545	0.4873	
0.2558	0.1923	0.05758	
0.1823	0.1792	0.09664	
0.1207	0.1037	0.1199	1
0.1239	0.134	0.1439	1
0.6057	0.6058	0.5803	
0.5625	0.5708	0.552	
0.379	0.3598	0.3622	1
0.2919	0.2875	0.3178	
0.2024	0.1925	0.2151	
0.5971	0.6253	0.735	1
0.39	0.3728	0.3628	1
			1
0.5831	0.5745	0.617	
0.5739	0.5609	0.5823	
0.5742	0.5621	0.5823	
0.3033	0.3309	0.4017	
0.4001	0.4234	0.4611	
0.4557	0.3834	0.3026	
			1
0.2851	0.2907	0.2575	1
0.5913	0.5714	0.3803	1
0.07784	0.09524	0.02451	
0.2933	0.3333	0.2711	

VEP annotated somatic variants

0.1062	0.08824	0.1634	
0.0587	0.05977	0.04484	
0.2241	0.216	0.2102	
0.4774	0.4212	0.2554	
0.1039	0.07276	0.02976	1
0.5654	0.5515	0.5728	
0.3377	0.2116	0.1471	
0.007728	0.005797	0.002198	
0.007894	0.007205	0.002255	
0.008609	0.007353	0.003099	
0.4871	0.515	0.462	
0.4	0.4841	0.5789	
0.1591	0.2064	0.2977	
0.2632	0.239	0.2116	
0.9159	0.9537	0.9898	
0.3577	0.4377	0.5794	
0.3622	0.3163	0.2368	1
0.2076	0.2186	0.3252	
0.3591	0.3631	0.1989	1
0.8472	0.8095	0.743	
0.2922	0.2733	0.3142	
0.7442	0.7248	0.7775	1
0.00708	0	0.0001363	
0.0001777	0	0	1
0.5225	0.4709	0.5266	
0.3979	0.3602	0.3688	
0.1801	0.1243	0.07603	
0.1709	0.1661	0.2022	
0.5664	0.5783	0.4804	1
			1
0.5478	0.565	0.559	
0.3321	0.2818	0.2747	
0.5704	0.5101	0.4326	
0.4518	0.462	0.42	1
0.6678	0.6529	0.6012	
0.8113	0.7162	0.6472	
			1
			1

VEP annotated somatic variants

0.353	0.3627	0.4703	
0.5244	0.5148	0.4849	
0.5329	0.5333	0.4556	
0.3982	0.438	0.5015	
0.008121	0.01195	0.004727	
0.4155	0.4531	0.5416	
0.373	0.3444	0.3423	
0.3391	0.3559	0.2427	
0.2155	0.25	0.2383	
0.5007	0.4257	0.3745	
0.7705	0.6338	0.3814	
0.3996	0.4333	0.3406	
0.411	0.4375	0.3308	
0.6157	0.629	0.6732	
0.627	0.6412	0.6763	
0.2426	0.2837	0.2999	
0.1815	0.1667	0.1023	
0.8075	0.8084	0.7272	
0.3833	0.4075	0.5362	
0.08885	0.1036	0.1233	
0.6518	0.5901	0.4921	
0.3592	0.3991	0.5408	1
0.1311	0.1472	0.2225	1
0.002587	0	0.002685	1
0.00003446	0	0.00009084	1
0.5723	0.5542	0.4784	1
			1
			1
0.5409	0.5	0.4602	1
0.5437	0.4321	0.3355	1
0.2401	0.2867	0.3296	1
0.4456	0.3819	0.3786	
0.3675	0.3957	0.342	
0.9082	0.8833	0.9298	
0.8807	0.875	0.8441	1

VEP annotated somatic variants

0.8793	0.8827	0.8477	1
0.001722	0.003205	0	
0.00686	0.005556	0.007846	
0.2692	0.247	0.2287	
0.1268	0.111	0.04279	1
0.3124	0.3157	0.3743	1
0.2199	0.2147	0.226	
0.2207	0.2174	0.2267	
			1
0.04831	0.04348	0.01863	
0.1072	0.1064	0.0894	
			1
0.5566	0.5058	0.4416	1
0.5509	0.497	0.4498	1
			1
			1
0.1304	0.112	0.03923	
0.004363	0.003145	0.001535	
0.3226	0.3496	0.3169	
0.4668	0.575	0.6489	
0.1131	0.03968	0.02621	
0.2166	0.2469	0.1966	
0.2204	0.217	0.1411	
			1
0.09113	0.1081	0.1332	1
0.5837	0.5887	0.661	1
			1
0.3555	0.3689	0.315	
0.1306	0.08746	0.03637	
0.0003519	0	0	
0.1966	0.2054	0.1225	
0.2069	0.2006	0.1605	
0.4654	0.5752	0.6223	1
0.1717	0.1569	0.2444	
0.2292	0.2168	0.2902	
0.4439	0.5677	0.6337	1
0.7394	0.8026	0.8459	1
			1
0.01547	0.01739	0.1054	

VEP annotated somatic variants

0.4348	0.3851	0.502	
0.7693	0.7882	0.893	
0.1156	0.1453	0.1148	
0.2421	0.2637	0.1711	
0.2434	0.2118	0.1253	1
0.2207	0.2616	0.4042	
0.07191	0.1106	0.1076	1
0.5018	0.4986	0.4649	
0.06902	0.1023	0.09126	
0.5246	0.6434	0.7197	
			1
			1
0.2496	0.232	0.2006	1
0.002805	0.01304	0.0004337	
0.4776	0.4819	0.4638	
0.5634	0.5245	0.5534	
0.05639	0.0806	0.1597	
0.1289	0.1407	0.1627	
			1
			1
0.03821	0.03583	0.01229	1
0.06906	0.08883	0.1527	
0.009799	0.004323	0.004145	1
0.1457	0.1683	0.1057	
0.3048	0.342	0.2999	
0.4469	0.4286	0.3708	
0.02398	0.02427	0.003442	
0.7798	0.7966	0.7727	
0.2892	0.2731	0.3016	
0.2619	0.1739	0.1129	1
			1
			1

VEP annotated somatic variants

0.1683	0.1794	0.2487	
0.6824	0.6707	0.6307	
0.6164	0.5594	0.4527	
0.002242	0.01064	0.001405	
0.1814	0.2363	0.4589	
0.6054	0.6633	0.6265	
0.305	0.2543	0.2568	
0.4922	0.5504	0.5825	1
0.3834	0.4333	0.4769	
0.1756	0.2198	0.3379	
0.5282	0.4568	0.389	
0.06844	0.04678	0.04106	1
0.04276	0.03655	0.02431	1
0.1037	0.07205	0.09452	
0.1471	0.1279	0.1224	
0.2619	0.2752	0.2678	
0.1085	0.1571	0.2122	1
			1
0.2437	0.2032	0.1366	1
0.02765	0.02023	0.02213	
0.4304	0.2881	0.2979	
0.4609	0.3882	0.3034	
0.4213	0.5144	0.768	
0.01193	0.01207	0.0005475	
0.2911	0.2736	0.151	
0.3833	0.3343	0.4076	
0.1002	0.09412	0.1465	
0.1995	0.1737	0.04742	
			1
0.3774	0.3764	0.3229	
0.3046	0.2977	0.318	
0.03704	0.0276	0.00515	
0.3782	0.3746	0.3754	
0.486	0.5318	0.5803	1
0.005668	0.004264	0.008765	
0.1879	0.2009	0.2028	
			1

VEP annotated somatic variants

0.6759	0.7263	0.5777	
0.3303	0.3143	0.4377	
0.2413	0.2131	0.1236	1
0.4123	0.4472	0.4761	
0.01873	0.00597	0.004952	
0.243	0.2939	0.2588	1
0.002967	0.001608	0.0008886	
0.4615	0.4851	0.4733	
0.04811	0.07205	0.07455	1
0.1339	0.134	0.2334	
0.02811	0.01842	0.03382	
0.0353	0.02017	0.01202	
0.5189	0.4481	0.6638	
0.2042	0.1959	0.1207	
0.356	0.3995	0.667	1
0.003689	0.002915	0.001108	
0.1985	0.2608	0.2427	
0.6393	0.6773	0.661	
0.4058	0.3862	0.3913	
0.2827	0.3	0.2707	
0.2581	0.2986	0.4149	
0.2532	0.2896	0.4018	
0.3045	0.3055	0.4377	
0.3051	0.3199	0.4526	
0.1881	0.175	0.2141	
0.2604	0.2536	0.2427	1
0.587	0.6282	0.614	
0.2862	0.3046	0.2915	
0.08272	0.0634	0.03236	
0.2299	0.2694	0.2917	1
0.04199	0.01741	0.007378	
0.01417	0.01324	0.002057	
0.7352	0.7572	0.7924	

VEP annotated somatic variants

0.3601	0.3517	0.3807	1
0.000484	0	0.00051	
0.01336	0.007426	0.0000844	
0.2056	0.2215	0.2554	
			1
0.2195	0.1424	0.02824	
0.4307	0.4333	0.4141	1
			1
0.1371	0.1225	0.1022	1
0.1673	0.1455	0.1114	1
			1
0.2421	0.1807	0.04665	
			1
0.181	0.1477	0.2814	
0.2065	0.2556	0.2459	
0.4215	0.366	0.3712	
			1
0.001197	0.005618	0.0002535	
0.3091	0.3934	0.3588	
0.462	0	0.5366	
0.4433	0.5882	0.5847	
0.3972	0.4104	0.3877	
0.3076	0.3344	0.2732	
0.1123	0.1164	0.03591	
			1
			1
0.5839	0.5997	0.6538	
			1
0.001154	0	0	
			1
0.3432	0.4032	0.3769	
0.00001969	0	0.0002662	
0.2039	0.1652	0.1314	
0.2499	0.2317	0.2335	1
0.2312	0.2944	0.2679	
0.8258	0.7826	0.8246	
0.358	0.3783	0.359	
0.6302	0.6875	0.6855	
			1
0.002528	0	0.0006006	
0.01167	0.008646	0.01505	1
0.03124	0.0245	0.01396	1
0.5976	0.6614	0.699	



VEP annotated somatic variants

0.6882	0.7003	0.7754	
			1
0.000843	0.00436	0.0001859	
0.04059	0.05187	0.08978	
			1
0.3704	0.3473	0.3584	1
0.732	0.6185	0.5564	
			1
0.3373	0.3329	0.3183	1
0.3286	0.3348	0.3162	1
0.6702	0.6455	0.5912	1
0.5865	0.5882	0.5673	1
0.5333	0.5304	0.5102	
0.01397	0.01475	0.006543	
0.001653	0.001475	0	
			1
			1
0.07089	0.05405	0.1248	
0.1813	0.2238	0.1738	1
0.4727	0.4688	0.3407	
0.2264	0.2075	0.2286	
0.1541	0.1811	0.2403	
0.1799	0.203	0.2038	
0.05045	0.07781	0.09447	
0.007467	0	0.002549	
0.01236	0.0132	0.002613	1
0.3856	0.3869	0.415	
0.4932	0.4522	0.4158	
0.2566	0.2832	0.3092	
0.3658	0.43	0.3905	
0.6307	0.5533	0.3811	
0.02991	0.01087	0.01319	
0.2668	0.3951	0.4445	
0.5191	0.5794	0.6211	
0.2018	0.3115	0.3651	
0.1253	0.09194	0.06535	

VEP annotated somatic variants

0.03599	0.02083	0.01377	
0.00001864	0	0	
0.5833	0.5288	0.607	
0.06001	0.07391	0.01947	
0.185	0.2055	0.1307	1
0.1144	0.1835	0.1156	1
0.1085	0.1203	0.1027	1
0.5231	0.5813	0.6944	
0.03042	0.03026	0.05627	
0.07846	0.09448	0.1297	1
0.4934	0.5494	0.4745	
0.3082	0.4006	0.6003	
0.5221	0.5482	0.5762	
0.1613	0.1838	0.2698	
0.2146	0.2702	0.3936	1
0.186	0.1801	0.2714	
0.2761	0.354	0.5414	
0.3549	0.3858	0.4133	
0.4931	0.5612	0.6405	
0.5273	0.5504	0.5891	
0.3581	0.375	0.2727	
0.4048	0.2949	0.1035	
0.01213	0.00436	0.004278	
0.363	0.415	0.423	
0.3293	0.3187	0.2408	
0.8158	0.768	0.635	1
0.2536	0.2444	0.2392	
0.4115	0.4204	0.3977	

VEP annotated somatic variants

<b>FILTER</b>	<b>flanking_bps</b>	<b>variant_id</b>	<b>variant_qual</b>
PASS	TCT	.	.
common_variant	CTG	rs10978447	.
PASS	GGC	rs279677	.
common_variant	TAT	rs11077414	.
PASS	CCT	.	.
PASS	TTT	rs2041171	.
common_variant	GAG	rs2364315	.
common_variant	TAT	rs6501947	.
PASS	CTG	rs554012320	.
PASS	CGCC	rs55685226	.
common_variant	CCC	rs1799859	.
common_variant	GCG	.	.
common_variant	CGT	rs12600864	.
common_variant	GTT	rs740250	.
common_variant	GCC	rs144177905	.
PASS	GCT	.	.
PASS	CCT	rs1251075	.
PASS	GCG	rs41291346	.
PASS	TTT	rs41303309	.
PASS	AGA	rs747166030	.
common_variant	CGT	rs11039146	.
common_variant	CGC	rs13087169	.
common_variant	GGG	rs12915634	.
PASS	ACA	rs61729367	.
PASS	TCC	rs7485573	.
PASS	AGC	.	.
common_variant	CCC	rs41264285	.
PASS	CCT	rs35431407	.
common_variant	GCT	rs12774070	.
common_variant	GAG	rs2251105	.
common_variant	GTAA	rs752944731	.
common_variant	ACG	rs3813622	.
common_variant	GAG	rs75553188	.
common_variant	TAT	rs56778727	.
common_variant	CTCTGTCCTCCCCCTA	rs67418568	.
PASS	CCT	rs41282522	.
common_variant	ATT	rs621375	.
common_variant	ATG	rs342467	.
common_variant	GGA	rs34463921	.
PASS	GTG	rs200527701	.
common_variant	CTG	rs12671813	.
common_variant	TCC	rs5182	.
PASS	ATT	rs13218824	.
PASS	GGA	rs8050390	.
common_variant	CTT	rs1053192	.
PASS	CCG	rs7517559	.
common_variant	CCC	rs72649360	.
common_variant	ACC	rs62619924	.
common_variant	CCG	rs878081	.
PASS	TTT	rs1003854	.
common_variant	TCA	rs733957	.
PASS	GCA	rs17164315	.
common_variant	TCT	rs4732036	.
PASS	ACA	.	.

VEP annotated somatic variants

common_variant	CGT	rs62128062	.
common_variant	GTC	rs4646686	.
PASS	CCG	rs1051713	.
PASS	TAG	rs55736017	.
common_variant	ACC	rs2289140	.
PASS	ATA	rs1626649	.
common_variant	AAT	rs1793173	.
common_variant	ACG	rs56780932	.
common_variant	GTG	rs2304872	.
common_variant	TATTTTTA	rs3067424	.
common_variant	CGC	rs4938014	.
PASS	CGC	rs35235926	.
common_variant	CTT	rs7853994	.
common_variant	GTT	rs7096505	.
common_variant	AAG	rs7630642	.
common_variant	AGG	rs11578772	.
common_variant	TCG	rs871130	.
PASS	ACG	rs115250350	.
PASS	TTA	.	.
PASS	GCG	.	.
PASS	ATG	rs2301587	.
PASS	AGA	rs140072315	.
PASS	ACG	rs755049876	.
PASS	AGG	.	.
PASS	CCC	rs74869251	.
PASS	TGG	.	.
common_variant	CTG	rs71428454	.
common_variant	CAG	rs71428453	.
PASS	TAG	rs455671	.
common_variant	AGT	rs17138632	.
PASS	CTGGG	.	.
common_variant	TAT	rs2276932	.
common_variant	AAG	rs793524	.
common_variant	TTG	rs10521763	.
common_variant	CCT	rs62620965	.
PASS	GCT	rs16837847	.
PASS	CGG	rs7550948	.
PASS	CCG	rs74404550	.
common_variant	AAG	rs3772219	.
common_variant	ATA	rs2296354	.
PASS	AAT	rs10972173	.
common_variant	GGT	rs12359433	.
PASS	ACT	rs6778511	.
common_variant	ACT	rs963618	.
common_variant	TAG	rs5951332	.
PASS	AGG	rs2361298	.
common_variant	ACC	rs3174476	.
common_variant	CAT	rs28365160	.
PASS	CCA	rs2305738	.
common_variant	GGA	rs28597966	.
common_variant	GCC	rs6151415	.
PASS	CTG	.	.
common_variant	ACG	rs2257090	.
PASS	AAT	rs62251997	.
common_variant	ACTG	rs143019035	.

VEP annotated somatic variants

PASS	GGA	.	.
PASS	GGG	rs1872858	.
common_variant	CCG	rs9895872	.
common_variant	CGG	rs1168966	.
PASS	CAG	rs749457	.
PASS	AGA	rs11790014	.
common_variant	CGT	rs8086318	.
PASS	AAT	.	.
common_variant	GAC	rs12125325	.
common_variant	TGT	rs45570436	.
PASS	AGC	rs36048052	.
common_variant	CGG	rs56290406	.
common_variant	CCT	rs17846715	.
common_variant	TCT	rs12131640	.
common_variant	CCG	rs1891	.
PASS	AGA	rs2853759	.
common_variant	TCT	rs113968994	.
PASS	GTG	.	.
PASS	GGA	rs6021355	.
common_variant	CGA	rs3827032	.
common_variant	CAT	rs6442124	.
common_variant	GCG	rs35725751	.
common_variant	TCC	rs1152194	.
common_variant	CAG	rs2281933	.
common_variant	GAT	rs11577579	.
common_variant	CAC	rs11374767	.
common_variant	CGC	rs36686	.
PASS	CCA	rs7210438	.
PASS	CGC	.	.
common_variant	CGG	rs309370	.
common_variant	GTG	rs45500792	.
PASS	GTT	rs73137012	.
common_variant	ACG	rs12388749	.
PASS	AGA	rs741886	.
PASS	GTA	.	.
PASS	CGT	rs34233512	.
common_variant	AAT	rs41308602	.
PASS	GAG	rs536159058	.
PASS	AGG	rs62207506	.
common_variant	AGG	rs193243275	.
PASS	ACG	rs3092994	.
PASS	CCG	rs8176235	.
PASS	TGC	rs273900734	.
PASS	CCT	rs2126042	.
common_variant	ACG	rs13153992	.
common_variant	TGT	rs2836972	.
common_variant	CAT	rs2273376	.
common_variant	GTG	rs2283569	.
PASS	GCC	rs28992474	.
PASS	AGA	rs11200559	.
common_variant	GGC	rs986178	.
PASS	TTC	.	.
PASS	GCC	.	.
common_variant	CGC	rs6601166	.
common_variant	TAT	rs11652816	.

VEP annotated somatic variants

PASS	CCA	.	.
common_variant	ATG	rs12411843	.
PASS	CGC	rs7079392	.
PASS	GGT	rs3740694	.
common_variant	CTG	rs10507274	.
common_variant	ACG	rs2111146	.
common_variant	ACTAT	rs139293175	.
PASS	CTGAGAG	rs112580616	.
PASS	TGT	rs2302315	.
common_variant	ATG	rs730228	.
common_variant	GTG	rs8110590	.
common_variant	TTA	rs2304176	.
common_variant	TAT	rs17261572	.
common_variant	CAA	rs10927267	.
PASS	AATAATT	rs148512971	.
PASS	GTT	rs6688703	.
common_variant	TGT	rs41289218	.
common_variant	CTA	rs11077410	.
PASS	GGT	.	.
PASS	CTC	.	.
common_variant	CGG	rs366510	.
PASS	ACA	.	.
common_variant	AAT	rs41260544	.
common_variant	AGA	rs2269067	.
common_variant	ATT	rs665728	.
PASS	ACG	rs139255231	.
common_variant	CAT	rs2286634	.
common_variant	CGA	rs149154082	.
common_variant	CCT	rs62231971	.
PASS	ATACACACA	.	.
common_variant	CAC	rs7034745	.
PASS	CCT	rs77802779	.
PASS	TCC	.	.
common_variant	CCT	rs2239801	.
PASS	GTT	rs11014511	.
PASS	GGA	rs187651793	.
PASS	CCA	rs7797991	.
PASS	CGT	.	.
common_variant	GGG	rs41291299	.
PASS	AGT	rs734348	.
common_variant	ACG	rs343989	.
common_variant	GCT	rs62113420	.
PASS	ACG	rs6925778	.
PASS	ACG	rs2493145	.
common_variant	ACC	rs181863983	.
common_variant	CTC	rs738304	.
common_variant	CGC	rs2304134	.
PASS	CCA	rs11574685	.
PASS	GGC	rs3747622	.
PASS	GGA	.	.
PASS	TCC	rs8106895	.
common_variant	TCG	rs1974763	.
common_variant	ACT	rs74901418	.
common_variant	TAATATGAATACA	rs11280083	.
common_variant	CGT	rs35352238	.

VEP annotated somatic variants

common_variant	ATC	rs920791	.
PASS	CGC	.	.
common_variant	AAT	rs144266211	.
PASS	ATG	rs74002500	.
common_variant	AAG	rs146524252	.
PASS	CTC	.	.
PASS	TCC	rs3762117	.
common_variant	CGT	rs670650	.
common_variant	GGC	rs11653797	.
PASS	GGA	.	.
common_variant	TGT	rs11234627	.
PASS	CCC	rs3136658	.
common_variant	CGC	rs3092960	.
common_variant	AAT	rs2351528	.
common_variant	TGTG	rs58161637	.
common_variant	CAT	rs11265493	.
PASS	CCTG	rs55682471	.
common_variant	AAA	rs735482	.
PASS	AAT	rs4844390	.
common_variant	AGGGCAGAGGCTGCTC	rs779696544	.
PASS	GCT	.	.
PASS	CTC	rs561895	.
common_variant	GGG	rs2073760	.
common_variant	TTG	rs3749191	.
PASS	ACA	rs368295466	.
PASS	GGC	rs2272211	.
common_variant	GCC	rs2069529	.
PASS	GAT	.	.
common_variant	CAG	rs56087852	.
PASS	CCG	.	.
common_variant	TCG	rs13043456	.
common_variant	AGG	rs1265045	.
common_variant	GAC	rs2302399	.
PASS	CGT	rs143775364	.
PASS	CAA	rs5828129	.
PASS	ACC	rs2231496	.
PASS	TAT	rs2300687	.
common_variant	CGT	rs5747211	.
PASS	GTA	rs2244682	.
common_variant	CTC	rs75243280	.
common_variant	ATAT	rs56066672	.
common_variant	CGA	rs41285260	.
PASS	CCA	rs117156562	.
PASS	GTC	.	.
PASS	ATT	rs62269547	.
common_variant	ACA	rs6766818	.
common_variant	ACT	rs1673607	.
PASS	TAG	.	.
PASS	CAG	rs2270202	.
PASS	TTA	.	.
common_variant	TCA	rs1061170	.
common_variant	AGA	rs1800136	.
common_variant	TTA	rs111775228	.
common_variant	CGC	rs1890042	.
PASS	CGC	rs2291254	.

VEP annotated somatic variants

PASS	ATC	rs12832244	.
common_variant	GCG	rs11556868	.
PASS	CTA	rs2302764	.
common_variant	GGG	rs582736	.
common_variant	GCG	rs4781019	.
common_variant	TGC	rs7012	.
PASS	TGC	rs278126	.
common_variant	GGT	rs3012627	.
common_variant	TTC	rs34054011	.
PASS	GCC	.	.
PASS	TGG	rs34398185	.
PASS	CCG	.	.
common_variant	GTT	rs11834597	.
common_variant	TTT	rs559165	.
PASS	AGG	.	.
common_variant	GCG	rs3817012	.
common_variant	AGT	rs2305450	.
PASS	CGT	.	.
PASS	GGA	rs3829211	.
common_variant	CGT	rs11540994	.
PASS	TAT	rs1660694	.
common_variant	CCG	rs1049353	.
PASS	CCG	rs13068264	.
common_variant	CAT	rs3779032	.
common_variant	TAT	rs3779031	.
PASS	CTT	rs72760251	.
common_variant	CCT	rs1129262	.
common_variant	GAA	rs2303793	.
common_variant	CAT	rs62482495	.
PASS	GGG	.	.
PASS	ACC	rs2973747	.
PASS	ATT	rs7538391	.
PASS	ATA	rs17128726	.
common_variant	CGC	rs17393069	.
common_variant	CTC	rs2295915	.
PASS	GGA	.	.
common_variant	GTG	rs2839077	.
PASS	TTTTGT	.	.
common_variant	TCA	rs4818	.
common_variant	TAT	rs10927335	.
PASS	TGT	.	.
PASS	ACG	rs117188117	.
PASS	TCA	rs1564823	.
common_variant	CAT	rs17618	.
common_variant	TGG	rs10760282	.
common_variant	AAT	rs8192494	.
PASS	AGA	.	.
PASS	ACA	rs3821157	.
common_variant	AGG	rs488132	.
PASS	CAA	.	.
common_variant	TAA	rs147910113	.
PASS	AAA	rs1506441	.
common_variant	TCA	rs974572	.
common_variant	CCC	rs2515838	.
PASS	AAA	.	.



VEP annotated somatic variants

common_variant	CAG	rs1127643	.
common_variant	GGG	rs11699220	.
common_variant	ACG	rs4502229	.
common_variant	ATT	rs3750863	.
common_variant	TCA	rs2297581	.
common_variant	CGA	rs41289311	.
common_variant	TAC	rs12248333	.
common_variant	CAG	rs41274912	.
PASS	TCT	rs10231075	.
PASS	CGG	rs782154947	.
common_variant	CAT	rs2304858	.
common_variant	TCG	rs6433817	.
common_variant	TGT	rs659040	.
PASS	TCG	.	.
PASS	CCT	.	.
PASS	AGG	rs35206429	.
PASS	GTT	rs1709082	.
PASS	CCC	rs1709081	.
PASS	CTAAA	.	.
common_variant	CCG	rs16995376	.
common_variant	ACG	rs4729021	.
common_variant	CGG	rs198430	.
PASS	ATT	rs687670	.
common_variant	TAA	rs2622733	.
PASS	AAC	rs1056142	.
common_variant	ATA	rs10409785	.
PASS	CGC	rs55681834	.
common_variant	CAT	rs1431196	.
common_variant	CGA	rs9467075	.
PASS	TCA	.	.
common_variant	CAA	rs4742	.
PASS	TTG	rs531346334	.
common_variant	ATG	rs41313157	.
common_variant	TGA	rs17416794	.
PASS	GAA	rs10739633	.
common_variant	TCC	rs952374	.
PASS	AGT	rs9942410	.
PASS	GGG	rs5993488	.
PASS	GGC	rs374861176	.
common_variant	CCG	rs2275874	.
PASS	TTT	.	.
common_variant	ACG	rs4072887	.
common_variant	CTG	rs9915640	.
PASS	TAT	rs55956367	.
common_variant	AGT	rs2271958	.
PASS	ATC	rs72792311	.
PASS	GGA	.	.
PASS	TGTCACT	rs3082917	.
PASS	AAC	rs3082	.
PASS	ACG	rs11588937	.
PASS	TGG	rs10096210	.
PASS	AAT	rs17146082	.
common_variant	GAC	rs2281868	.
common_variant	TGG	rs41274582	.
PASS	ACG	rs72857275	.

VEP annotated somatic variants

PASS	GCC	rs11084816	.
common_variant	CAT	rs12221039	.
PASS	TTC	.	.
common_variant	AAT	rs4234394	.
PASS	GCG	rs12034925	.
common_variant	CTT	rs12042900	.
PASS	CAA	rs1995482	.
PASS	ATT	rs79984676	.
common_variant	AAT	rs41304141	.
PASS	GGT	rs12951733	.
PASS	CTT	.	.
common_variant	TTT	rs12948962	.
common_variant	GTG	rs41267309	.
common_variant	TGT	rs41298531	.
PASS	GTGG	.	.
PASS	GCG	rs6884561	.
PASS	ACA	rs2306431	.
common_variant	CGG	rs2286329	.
common_variant	CGA	rs1126464	.
common_variant	CAC	rs2304175	.
PASS	TCT	.	.
common_variant	ACA	rs61935050	.
common_variant	CCA	rs76390929	.
common_variant	ACC	rs3213505	.
common_variant	AGG	rs3747280	.
PASS	AGA	rs5967281	.
common_variant	CGT	rs2276343	.
PASS	AATATTT	rs140490580	.
common_variant	CCA	rs7234288	.
common_variant	GCC	rs36101975	.
common_variant	TCC	rs56148603	.
PASS	TTT	.	.
PASS	CGT	rs34278949	.
PASS	AAG	rs369225897	.
common_variant	ATA	rs191289705	.
common_variant	GGG	rs4236506	.
common_variant	CGA	rs1005887	.
common_variant	GAG	rs770087	.
common_variant	AGA	rs62467724	.
PASS	ATG	rs313407	.
PASS	AAA	rs1782383	.
PASS	CGC	.	.
common_variant	GGT	rs1076669	.
common_variant	ACC	rs6750085	.
common_variant	TCT	rs35443668	.
PASS	ACA	rs1919691	.
PASS	TCA	.	.
common_variant	AGT	rs2070699	.
PASS	AAG	.	.
PASS	TGA	rs61933720	.
PASS	CTA	rs310618	.
PASS	GGT	.	.
PASS	TAT	rs56380058	.
PASS	CTTCTCT	rs111797029	.
common_variant	GCC	rs10848906	.

VEP annotated somatic variants

common_variant	TCC	rs17180771	.
PASS	AGA	rs188362092	.
common_variant	CAG	rs2120276	.
common_variant	ACG	rs36018672	.
common_variant	CCG	rs2181440	.
common_variant	CGA	rs2071857	.
common_variant	CGA	rs8142615	.
common_variant	CAA	rs7292751	.
PASS	CCT	rs2239691	.
PASS	GGG	.	.
common_variant	ACT	rs709683	.
PASS	TAC	rs2252767	.
PASS	TAT	rs1871685	.
common_variant	ATC	rs2250718	.
common_variant	CGA	rs2273707	.
common_variant	GAA	rs2273706	.
common_variant	GCG	rs79126103	.
PASS	CAT	rs10760503	.
PASS	ACC	.	.
common_variant	ATT	rs3176889	.
PASS	GCG	rs145747095	.
PASS	GCC	.	.
common_variant	GGT	rs6971720	.
common_variant	CAT	rs2234922	.
common_variant	GCG	rs13439459	.
PASS	CCA	rs16947425	.
PASS	AAG	rs2272313	.
common_variant	GGG	rs10935282	.
common_variant	TGT	rs1801591	.
common_variant	CGT	rs1130426	.
common_variant	CCG	rs3810381	.
PASS	CCA	rs41286811	.
common_variant	GCG	rs2307003	.
PASS	CCG	rs12975442	.
PASS	TAA	rs79643517	.
common_variant	CCG	rs1076871	.
PASS	TTG	.	.
common_variant	TGA	rs1047840	.
PASS	GGC	.	.
common_variant	TTT	rs56194802	.
common_variant	CGT	rs1800291	.
common_variant	TCA	rs7058826	.
PASS	AGT	.	.
common_variant	CTG	rs4030473	.
common_variant	GCG	rs174589	.
common_variant	ACG	rs174453	.
common_variant	GTG	rs733679	.
common_variant	CGT	rs6007594	.
PASS	ACA	.	.
PASS	CAT	.	.
common_variant	CGG	rs2475853	.
common_variant	GGC	rs62599865	.
common_variant	ATT	rs61703386	.
common_variant	TGA	rs41305290	.
common_variant	TGA	rs1939383	.

VEP annotated somatic variants

PASS	TCA	rs3780	.
common_variant	TTG	rs3733577	.
PASS	CCT	rs942482434	.
PASS	GAA	rs916668	.
PASS	GCA	rs2075566	.
common_variant	CCT	rs10793625	.
common_variant	AGC	rs771204	.
common_variant	GAG	rs9358802	.
common_variant	GCT	rs11555275	.
PASS	AGA	.	.
common_variant	AAA	rs7757405	.
PASS	CAT	rs3800377	.
common_variant	CAG	rs4713867	.
common_variant	CTT	rs1052583	.
common_variant	ATC	rs16843671	.
PASS	TCG	rs2240482	.
common_variant	GGC	rs41283365	.
PASS	GGT	rs17848937	.
common_variant	GGT	rs17848935	.
PASS	ACG	rs1127678	.
common_variant	CCG	rs190206480	.
common_variant	TGG	rs34167077	.
PASS	CGC	rs4883569	.
common_variant	AGA	rs2066913	.
common_variant	CGA	rs10973387	.
PASS	CAG	rs28401636	.
PASS	CGC	rs553196851	.
PASS	GGC	rs7630741	.
PASS	GGA	.	.
PASS	TCA	rs11119925	.
common_variant	CGG	rs2287854	.
common_variant	CGG	rs351855	.
common_variant	AGT	rs1049636	.
PASS	GTT	rs1893433	.
common_variant	ACG	rs3744903	.
PASS	ACG	rs1893434	.
common_variant	TGG	rs2231901	.
PASS	ATA	.	.
common_variant	TGT	rs56301507	.
common_variant	AGC	rs6704545	.
common_variant	CGT	rs36051194	.
PASS	TAA	rs2177153	.
PASS	TGG	rs3214903	.
PASS	ATG	rs12122068	.
PASS	CGG	rs6686353	.
common_variant	CCG	rs1800822	.
common_variant	GCGGTGGTG	rs67450550	.
PASS	GCG	rs7929014	.
common_variant	TCT	rs294883	.
common_variant	CCC	rs381639	.
common_variant	ATC	rs2293783	.
PASS	CGC	rs4714489	.
PASS	CTT	rs10106	.
common_variant	ATG	rs345514	.
PASS	TCT	rs35583270	.

VEP annotated somatic variants

common_variant	ACG	rs11098194	.
common_variant	CGT	rs17457087	.
common_variant	CAA	rs34505482	.
common_variant	GGA	rs1545437	.
PASS	ACC	rs74123100	.
PASS	TTC	.	.
PASS	CGT	rs57337277	.
common_variant	ACG	rs117877479	.
common_variant	CTC	rs838137	.
common_variant	TAT	rs9807877	.
common_variant	CTC	rs529623	.
PASS	CTT	rs1994490	.
PASS	ACA	.	.
common_variant	ACG	rs1564281	.
PASS	GAGG	rs3830208	.
common_variant	CGG	rs12432149	.
PASS	GAA	rs76999174	.
common_variant	GCA	rs76743658	.
common_variant	CAC	rs4958733	.
common_variant	TGC	rs2288101	.
common_variant	CTA	rs10849133	.
common_variant	CGT	rs1468556	.
common_variant	CTT	rs16962977	.
common_variant	CGC	rs16962974	.
PASS	GGT	rs35950532	.
PASS	GGA	.	.
PASS	AGG	rs3806338	.
common_variant	CAG	rs76346754	.
common_variant	GGG	rs61729628	.
common_variant	TCG	rs5384	.
common_variant	TAC	rs71548508	.
common_variant	TAG	rs17057536	.
PASS	GCA	rs2293	.
common_variant	ATC	rs9971293	.
PASS	GAC	rs10136536	.
PASS	CAC	rs181881694	.
common_variant	GCG	rs1254898	.
common_variant	GCG	rs11083455	.
common_variant	CGC	rs56854837	.
common_variant	CGG	rs79309130	.
common_variant	TGG	rs147513433	.
common_variant	CGT	rs6076347	.
common_variant	TGC	rs2303275	.
common_variant	ATG	rs2303278	.
PASS	CGG	.	.
common_variant	CGC	rs1049346	.
common_variant	ATG	rs4907817	.
common_variant	TTC	rs12844618	.
common_variant	CGT	rs79806135	.
PASS	ATT	rs11229655	.
PASS	TAA	rs4852349	.
common_variant	ACG	rs1805058	.
common_variant	GCG	rs5748449	.
common_variant	TGC	rs4986942	.
common_variant	CGA	rs12823938	.

VEP annotated somatic variants

common_variant	GTC	rs2243093	.
common_variant	CGT	rs2274020	.
common_variant	TAT	rs2793442	.
PASS	CTCGC	.	.
PASS	GGG	.	.
common_variant	ACG	rs1190736	.
common_variant	TGC	rs4838684	.
PASS	ACC	rs147825070	.
common_variant	CGC	rs11101914	.
common_variant	CGC	rs12219529	.
common_variant	CCG	rs77245879	.
common_variant	ATG	rs10893053	.
PASS	TTC	rs62265406	.
PASS	CCG	rs2748338	.
PASS	TGA	rs34212133	.
PASS	TGT	rs116870369	.
PASS	TTA	.	.
common_variant	AGG	rs3828595	.
common_variant	AGC	rs4475186	.
common_variant	CTC	rs41312596	.
common_variant	CCT	rs7614915	.
PASS	GGG	rs34108640	.
common_variant	ACG	rs76463933	.
PASS	GCG	rs974285	.
common_variant	GCC	rs1871042	.
common_variant	ACG	rs72681249	.
PASS	TCG	rs12356612	.
common_variant	CGT	rs41260144	.
PASS	TGC	rs616218	.
common_variant	ACC	rs1052278	.
common_variant	GTA	rs17676826	.
PASS	TGG	.	.
PASS	TAC	rs34922454	.
common_variant	GTC	rs6580637	.
PASS	CCT	rs1052948632	.
common_variant	AGC	rs2243388	.
common_variant	CCG	rs2379206	.
common_variant	CGT	rs56351858	.
common_variant	GGA	rs16833972	.
common_variant	CCG	rs3738541	.
common_variant	GTG	rs4720951	.
PASS	ATA	.	.
PASS	TTA	.	.
PASS	AAT	rs12220588	.
common_variant	TTG	rs10882474	.
common_variant	GCG	rs2232253	.
PASS	CCA	.	.
common_variant	TCA	rs1799945	.
common_variant	GCT	rs148714837	.
common_variant	AGG	rs74648342	.
common_variant	AGG	rs12436072	.
common_variant	ACG	rs12164	.
PASS	GCA	.	.
PASS	CCG	rs16891397	.
PASS	ACA	rs77463023	.

VEP annotated somatic variants

common_variant	TGG	rs3752419	.
PASS	CTCC	.	.
common_variant	CCT	rs14362	.
common_variant	CCG	rs2073420	.
PASS	AATTTT	rs546127026	.
common_variant	TGG	rs1131488	.
PASS	CGA	rs2272790	.
common_variant	GGC	rs1053593	.
common_variant	GTG	rs2071190	.
PASS	GGC	rs77856552	.
common_variant	GCA	rs35337531	.
common_variant	CGC	rs3830343	.
common_variant	GGG	rs3737243	.
PASS	GGC	.	.
common_variant	CTG	rs6320	.
common_variant	TTG	rs6638360	.
common_variant	ACG	rs200650762	.
common_variant	ACG	rs11558819	.
PASS	AAG	.	.
common_variant	TAT	rs1048710	.
PASS	GGT	rs540557518	.
PASS	TAG	rs12904700	.
common_variant	AGT	rs866484	.
common_variant	CTT	rs1051393	.
PASS	AAT	rs33982004	.
PASS	ATC	rs609207	.
common_variant	TTA	rs2297370	.
PASS	TGT	rs2274849	.
PASS	GCG	rs34297802	.
common_variant	ATT	rs1128617	.
common_variant	CAT	rs4830219	.
PASS	AGG	.	.
PASS	CGG	rs6782002	.
common_variant	ACT	rs36052974	.
common_variant	AAT	rs9848979	.
common_variant	TTA	rs61886896	.
PASS	CAGCCTA	rs139927942	.
common_variant	TCA	rs1063110	.
common_variant	TTGGG	rs57179462	.
common_variant	GGA	rs146644651	.
PASS	GCC	rs41268137	.
PASS	TCA	rs12722600	.
PASS	CAC	rs143249661	.
common_variant	CGG	rs3842752	.
PASS	AAG	rs3741211	.
common_variant	ACG	rs2059806	.
common_variant	CTC	rs2860177	.
common_variant	AGG	rs11761394	.
PASS	GTT	.	.
PASS	TGA	.	.
PASS	GAG	rs3797390	.
PASS	TGCC	.	.
common_variant	CCA	rs2291919	.
PASS	CCT	rs75282194	.
common_variant	TGG	rs34051422	.

VEP annotated somatic variants

PASS	TAT	rs1109216	.
common_variant	TTA	rs2274617	.
common_variant	GTT	rs2305586	.
common_variant	TGT	rs3821909	.
PASS	ATT	rs2239547	.
common_variant	ACA	rs2276817	.
PASS	ATG	rs2240917	.
common_variant	TAT	rs1751134	.
common_variant	CTA	rs41307668	.
PASS	TCG	rs7957289	.
PASS	ATG	.	.
common_variant	CCC	rs78399616	.
common_variant	TGA	rs34043167	.
common_variant	CGC	rs2298681	.
PASS	GGA	rs2073366	.
PASS	CCT	rs11098988	.
PASS	GGC	rs5952987	.
common_variant	TAC	rs9419380	.
common_variant	CGT	rs13214720	.
common_variant	CCA	rs2076056	.
common_variant	CCG	rs742099	.
common_variant	TCTTT	rs10545425	.
PASS	CCT	rs17369029	.
PASS	GAG	rs41289438	.
common_variant	CGC	rs17855078	.
common_variant	CGT	rs10889315	.
common_variant	CCA	rs9800580	.
common_variant	CGG	rs1611775	.
PASS	CCA	.	.
common_variant	TGA	rs16885430	.
common_variant	CCA	rs12706859	.
common_variant	TGG	rs80095910	.
PASS	AGA	rs9534059	.
common_variant	CGT	rs41300795	.
PASS	AGG	.	.
common_variant	CCT	rs141093070	.
PASS	AGA	.	.
common_variant	ACG	rs2230018	.
common_variant	ACC	rs59225858	.
common_variant	CTT	rs1062277	.
common_variant	CGT	rs6950119	.
common_variant	AGT	rs11913944	.
PASS	ACA	rs68107102	.
common_variant	GTC	rs7764091	.
PASS	ATACACACACA	rs147073742	.
common_variant	TGG	rs138496842	.
PASS	TTA	rs757731918	.
common_variant	ACA	rs114902761	.
common_variant	CGT	rs12046928	.
PASS	CCG	rs72852205	.
PASS	AGT	.	.
PASS	CCA	.	.
PASS	AGCTC	.	.
common_variant	GAT	rs16862956	.
common_variant	CTT	rs3736968	.



VEP annotated somatic variants

common_variant	CTG	rs11552577	.
common_variant	GAT	rs202185247	.
PASS	TTA	.	.
PASS	TTT	.	.
PASS	CTG	rs149140699	.
common_variant	CCG	rs9418941	.
common_variant	GAT	rs7307735	.
common_variant	CCG	rs10953283	.
PASS	CGC	rs190427523	.
PASS	GCG	rs34946378	.
PASS	AGG	.	.
common_variant	TGA	rs2604958	.
PASS	CTC	rs2071602	.
common_variant	GTC	rs463217	.
common_variant	CTG	rs9306112	.
common_variant	CAG	rs9984726	.
common_variant	GCG	rs73176644	.
PASS	TTCC	rs3841288	.
PASS	CAT	.	.
PASS	AGC	rs9374309	.
common_variant	GGG	rs6908219	.
common_variant	CGT	rs2296300	.
PASS	ATG	rs6672093	.
PASS	TGA	rs2296299	.
common_variant	CCC	rs684527	.
common_variant	CAG	rs3798761	.
PASS	TGT	.	.
PASS	TCT	.	.
PASS	GGG	rs6695528	.
PASS	TGT	rs11610822	.
common_variant	CCG	rs893239	.
common_variant	TCG	rs36068997	.
PASS	CGG	rs575867042	.
common_variant	GCG	rs7258841	.
PASS	CCC	.	.
common_variant	TGT	rs7334674	.
PASS	GTA	.	.
PASS	TATT	.	.
common_variant	CTG	rs3813933	.
common_variant	CAC	rs182548747	.
common_variant	CTC	rs2304720	.
common_variant	TAT	rs9877192	.
PASS	TTA	rs10771166	.
common_variant	ACG	rs13387241	.
common_variant	GCG	rs2242339	.
common_variant	CGC	rs138879160	.
PASS	AGG	rs139839409	.
common_variant	TTC	rs1741547	.
PASS	GAG	rs2354444	.
common_variant	GCC	rs7094610	.
common_variant	AAT	rs78140568	.
PASS	CTA	.	.
common_variant	CAG	rs34423045	.
common_variant	CGA	rs36006556	.
PASS	AAT	rs7745	.

VEP annotated somatic variants

PASS	TCA	rs2839146	.
PASS	AGA	rs2274800	.
PASS	ATG	rs75340045	.
PASS	TGA	rs4130852	.
PASS	ACT	rs41308397	.
common_variant	GTT	rs807023	.
common_variant	TCG	rs752974	.
common_variant	GGA	rs73048940	.
common_variant	ATA	rs2908989	.
PASS	GGG	rs2070945	.
common_variant	GTC	rs2233055	.
PASS	CCT	.	.
common_variant	TTT	rs5953637	.
common_variant	TCG	rs3765272	.
PASS	TCT	.	.
PASS	GGA	.	.
common_variant	GCC	rs113311895	.
common_variant	ACA	rs2142887	.
common_variant	GTA	rs6894260	.
common_variant	CAA	rs2301796	.
PASS	CCC	.	.
common_variant	GCG	rs5909299	.
PASS	ACA	rs74430817	.
common_variant	GAG	rs56072295	.
PASS	TAT	rs55715763	.
PASS	CAGGGT	rs72288687	.
PASS	TTG	rs2290689	.
common_variant	ATG	rs1078264	.
common_variant	CCC	rs4502771	.
common_variant	CGG	rs2072788	.
common_variant	AAA	rs2270969	.
common_variant	TGG	rs2250213	.
common_variant	GCA	rs13204070	.
PASS	ACC	.	.
PASS	CCA	.	.
common_variant	CGA	rs61751446	.
PASS	GCT	.	.
common_variant	CTG	rs616836	.
PASS	GTC	rs3745480	.
common_variant	TGC	rs147500056	.
PASS	GCC	.	.
common_variant	CGC	rs368622121	.
PASS	CAT	rs673408	.
PASS	TAT	rs147500027	.
common_variant	ACT	rs1263792	.
common_variant	CCG	rs13023973	.
common_variant	AGG	rs878493	.
common_variant	CGC	rs8081793	.
PASS	CGT	rs8067585	.
common_variant	TCG	rs79286496	.
common_variant	TCT	rs12917	.
common_variant	ATA	rs3213927	.
PASS	GGG	rs2289718	.
common_variant	CAT	rs3747032	.
PASS	CCT	rs73492943	.

VEP annotated somatic variants

common_variant	GAG	rs142531662	.
PASS	GTG	rs2302320	.
common_variant	ACC	rs7964786	.
PASS	CAT	rs10489691	.
common_variant	CCT	rs2227261	.
common_variant	CGC	rs7922546	.
common_variant	CCT	rs77813062	.
common_variant	TTC	rs141042584	.
PASS	ACC	rs12012022	.
common_variant	AGT	rs6622126	.
common_variant	CCA	rs6495341	.
common_variant	AGG	rs1793141	.
common_variant	ACC	rs496797	.
common_variant	CTA	rs1655519	.
common_variant	CAC	rs570218	.
common_variant	GTG	rs480963	.
common_variant	GAA	rs3809869	.
PASS	GGG	.	.
common_variant	CGA	rs181211282	.
PASS	ACA	rs34547023	.
common_variant	CCG	rs11042902	.
PASS	TATTT	.	.
PASS	CCG	rs12501541	.
common_variant	ACA	rs11121691	.
common_variant	CAG	rs2229276	.
common_variant	TGC	rs3820571	.
common_variant	CAT	rs3820568	.
common_variant	CGT	rs2297965	.
PASS	TTTGTGT	rs34883891	.
common_variant	GTG	rs111427194	.
common_variant	ATG	rs1609459	.
common_variant	GGA	rs10878538	.
PASS	GGA	rs3751175	.
common_variant	CTT	rs7480563	.
PASS	CGC	rs12935454	.
common_variant	CAG	rs1635235	.
common_variant	GGG	rs4796854	.
common_variant	CAGG	rs11570050	.
common_variant	GCG	rs16967494	.
common_variant	TTC	rs3957557	.
common_variant	GCT	rs735711	.
PASS	CCA	.	.
common_variant	GTT	rs7159367	.
PASS	CCG	rs772285227	.
common_variant	CGG	rs40305	.
PASS	GGG	.	.
PASS	TTT	rs2072012	.
PASS	GCG	rs72818342	.
PASS	TTC	rs10408143	.
PASS	TAC	.	.
PASS	CTG	rs56397652	.
common_variant	AAG	rs4950877	.
common_variant	TCC	rs145701607	.
PASS	CAA	rs174536	.
PASS	TCA	.	.

VEP annotated somatic variants

PASS	TTA	.	.
common_variant	GCG	rs2275107	.
PASS	TCA	.	.
common_variant	GCC	rs11670727	.
common_variant	GAA	rs878907	.
common_variant	AAT	rs1318102	.
common_variant	CAT	rs8482	.
common_variant	CCT	rs35995789	.
common_variant	ATA	rs11657883	.
common_variant	TGT	rs11653231	.
common_variant	GCC	rs2228603	.
common_variant	ACC	rs73044244	.
PASS	CGG	.	.
common_variant	ATA	rs114443303	.
common_variant	CGA	rs6087625	.
common_variant	AGG	rs1079533	.
common_variant	CCC	rs1136207	.
PASS	CTT	.	.
common_variant	CAT	rs6433569	.
PASS	ATT	rs4300824	.
common_variant	GCG	rs2234570	.
common_variant	ATG	rs4804	.
common_variant	TCC	rs2275712	.
common_variant	GAA	rs201763096	.
common_variant	AGG	rs4648073	.
PASS	GCA	.	.
common_variant	TAT	rs587555	.
common_variant	GAT	rs115931931	.
common_variant	GAA	rs10457670	.
PASS	GGG	.	.
PASS	GTT	.	.
PASS	CCA	.	.
common_variant	GAG	rs6860507	.
PASS	ATG	.	.
PASS	CCG	rs456285	.
PASS	TGC	rs149560096	.
common_variant	GCT	rs61755040	.
common_variant	ACG	rs2233442	.
common_variant	AATTTT	rs376045897	.
PASS	ATC	rs17646552	.
common_variant	TGA	rs61732213	.
common_variant	GGC	rs74763333	.
common_variant	CGA	rs117307800	.
common_variant	TAG	rs11246947	.
PASS	CGT	rs10813983	.
common_variant	CGT	rs1263337	.
common_variant	GCC	rs11553611	.
PASS	CCA	rs905721	.
common_variant	ATC	rs1799983	.
PASS	CTC	.	.
common_variant	CAG	rs12344155	.
PASS	GCC	rs11574894	.
common_variant	TAA	rs217434	.
common_variant	ATG	rs3812694	.
common_variant	GCA	rs727162	.

VEP annotated somatic variants

PASS	CGC	.	.
PASS	CCC	rs7644275	.
PASS	GAAGAGA	rs773872527	.
PASS	TCA	rs144139217	.
common_variant	ATG	rs28932181	.
common_variant	ACA	rs2303707	.
common_variant	GCG	rs142803792	.
common_variant	GTT	rs79891871	.
common_variant	CGC	rs11550029	.
PASS	AGC	rs1175392	.
common_variant	CAA	rs10093400	.
PASS	GAA	.	.
common_variant	AGC	rs11244329	.
common_variant	TAC	rs10872646	.
PASS	CCTTAAAGT	rs141363348	.
PASS	ATTCTAAT	rs10567712	.
common_variant	GCA	rs7657846	.
PASS	ACA	rs1806222	.
common_variant	CCC	rs748486	.
common_variant	CTG	rs1029305	.
PASS	ATG	rs2027833	.
PASS	TAT	rs2027831	.
PASS	ATC	rs2027832	.
common_variant	CTG	rs2295478	.
PASS	CAA	rs2294695	.
common_variant	CGT	rs115194510	.
common_variant	TGA	rs11903	.
PASS	ACG	rs3826861	.
PASS	ATC	rs1025576	.
common_variant	TCG	rs703903	.
common_variant	TGT	rs7121804	.
common_variant	AAG	rs61890335	.
common_variant	TCC	rs56352135	.
common_variant	TGA	rs12283334	.
common_variant	AAG	rs10838637	.
common_variant	ATG	rs7145814	.
common_variant	GCC	rs115424559	.
common_variant	TGA	rs4465383	.
PASS	AAT	rs74782118	.
PASS	GCG	rs2297594	.
common_variant	CAA	rs733728	.
common_variant	CAG	rs173776	.
PASS	TTAAA	.	.
common_variant	ACT	rs57131062	.
common_variant	CTA	.	.
common_variant	GTT	rs1152187	.
common_variant	CGA	rs2070871	.
PASS	TTC	.	.
common_variant	GGA	rs55701638	.
common_variant	AGT	rs5914274	.
common_variant	CGC	rs10408458	.
PASS	ACC	rs62620049	.
common_variant	GCA	rs11185826	.
common_variant	CGC	rs7535528	.
PASS	TTA	.	.

VEP annotated somatic variants

common_variant	ACC	rs11577368	.
common_variant	GCG	rs11547363	.
common_variant	TCT	rs41302597	.
PASS	AAG	rs13007173	.
common_variant	TAT	rs6927706	.
common_variant	CAC	rs3812657	.
PASS	TCC	rs766854336	.
PASS	TCA	rs12707531	.
common_variant	AGT	rs4816	.
common_variant	CGT	rs78561636	.
common_variant	CCG	rs2241988	.
PASS	CAC	rs74436253	.
common_variant	CGA	rs392565	.
common_variant	TGC	rs1131978	.
PASS	CCG	.	.
common_variant	CTG	rs246388	.
common_variant	GTT	rs246391	.
PASS	TAC	rs1780192	.
common_variant	GAC	rs4985155	.
common_variant	TAC	rs2740	.
common_variant	ACTG	rs34125357	.
common_variant	GCT	rs1867780	.
PASS	TTC	rs6676171	.
common_variant	CGC	rs12407843	.
common_variant	CTG	rs6671392	.
common_variant	AGG	rs17570	.
PASS	GAA	rs1061338	.
PASS	CAG	rs2306304	.
PASS	CCA	rs2306301	.
PASS	TCC	.	.
PASS	GGT	rs17303413	.
common_variant	CCG	rs34440547	.
common_variant	CAG	rs3006473	.
common_variant	GCC	rs3750354	.
PASS	TAC	.	.
PASS	TGTT	.	.
PASS	CCT	.	.
common_variant	CCC	rs12800061	.
common_variant	TAA	rs1668	.
PASS	ATA	rs7531782	.
common_variant	GAG	rs17714063	.
common_variant	CAA	rs72818370	.
common_variant	CAA	rs4791765	.
PASS	CCA	.	.
common_variant	CCG	rs11541025	.
common_variant	CAT	rs5751975	.
common_variant	CGC	rs3761646	.
common_variant	AGG	rs734823	.
PASS	CAG	rs9370067	.
PASS	ATC	rs7967264	.
PASS	CCA	.	.
common_variant	CCC	rs2020923	.
PASS	GTG	.	.
common_variant	TTA	rs3740365	.
common_variant	TCT	rs10786156	.

VEP annotated somatic variants

common_variant	CAT	rs3831084	.
common_variant	ACC	rs3765524	.
PASS	GAG	rs4072830	.
common_variant	CAG	rs12727342	.
PASS	CTT	rs10752744	.
common_variant	GTG	rs55895668	.
common_variant	CAG	rs6993938	.
common_variant	CGC	rs1065837	.
common_variant	CGT	rs11777402	.
common_variant	CAG	rs7014582	.
common_variant	GAG	rs7819099	.
PASS	CCA	.	.
common_variant	CCT	rs6573782	.
common_variant	AGA	rs1555400	.
common_variant	CAA	rs749271	.
PASS	GGG	rs28687780	.
common_variant	TCG	rs139924905	.
PASS	TGG	rs3744078	.
common_variant	GGG	rs55709850	.
PASS	AGT	.	.
common_variant	ACG	rs12197079	.
common_variant	CTG	rs2294917	.
common_variant	CGC	rs8107538	.
common_variant	GACCC	rs67346689	.
PASS	TCG	.	.
PASS	AAA	.	.
common_variant	TAT	rs2424213	.
PASS	AGT	rs7986347	.
common_variant	AAG	rs13273814	.
common_variant	CCC	rs1801282	.
common_variant	ACG	rs3856806	.
common_variant	CTG	rs1669112	.
common_variant	CGG	rs201186780	.
common_variant	GCC	rs2301287	.
PASS	CGG	rs34856581	.
common_variant	AGG	rs7894	.
common_variant	GGT	rs113986045	.
common_variant	ACA	rs741932	.
common_variant	GGT	rs2136998	.
PASS	ATA	rs11099079	.
common_variant	ATT	rs496067	.
common_variant	TAT	rs513572	.
common_variant	ATT	rs513573	.
common_variant	GAG	rs880177	.
common_variant	CAG	rs12544121	.
common_variant	CAC	rs3741089	.
PASS	AGA	.	.
common_variant	AGG	rs45596236	.
common_variant	GGCTGGTC	rs67531107	.
PASS	CGG	rs384726	.
PASS	CCT	.	.
common_variant	CGG	rs141874203	.
common_variant	GGG	rs3761484	.
PASS	GGG	rs9626578	.
PASS	TTA	rs150305650	.

VEP annotated somatic variants

PASS	CTAAA	rs550887876	.
common_variant	TGT	rs144556615	.
PASS	GGC	rs59007873	.
common_variant	CAT	rs2072284	.
common_variant	TAA	rs62086002	.
PASS	AGT	rs2142111	.
common_variant	CAG	rs3809916	.
PASS	TGC	rs2273786	.
common_variant	CAG	rs41282874	.
PASS	ACA	.	.
common_variant	TTC	rs3821880	.
PASS	ATA	rs4341027	.
common_variant	TGG	rs17853260	.
PASS	GCT	rs12928073	.
common_variant	CAC	rs116992433	.
PASS	CTG	rs117568247	.
common_variant	ATG	rs138666431	.
common_variant	CTG	rs201905426	.
PASS	TTA	.	.
common_variant	GTT	rs2058464	.
common_variant	TCT	rs3744619	.
common_variant	CAC	rs3751112	.
common_variant	CGG	rs3812730	.
common_variant	CAC	rs1626469	.
PASS	TGA	rs11871517	.
common_variant	GGC	rs14193	.
PASS	GCT	rs145796187	.
common_variant	ATA	rs17783124	.
common_variant	GTG	rs2306919	.
common_variant	TGA	rs3729931	.
PASS	TGA	.	.
common_variant	CCG	rs1767443	.
common_variant	GGG	rs10875687	.
common_variant	GAGG	rs34729771	.
common_variant	ACG	rs201983107	.
PASS	GAG	rs367680909	.
common_variant	CGC	rs9530901	.
PASS	TCT	rs2963925	.
PASS	CGG	rs7813046	.
common_variant	CAT	rs11788747	.
PASS	TGGCCTTCC	rs150557566	.
PASS	ATA	rs6899737	.
common_variant	AGG	rs5851607	.
common_variant	CAC	rs465736	.
common_variant	ATG	rs11242	.
PASS	GGG	rs2581786	.
common_variant	GTA	rs1546650	.
common_variant	CCG	rs1549168	.
common_variant	TTT	rs2275742	.
PASS	CGC	rs2272805	.
common_variant	GCG	rs7276592	.
common_variant	TTA	rs3840984	.
common_variant	GCC	rs76239019	.
PASS	AAC	rs55668927	.
PASS	GGA	.	.



VEP annotated somatic variants

PASS	CCT	rs12944458	.
common_variant	AGAA	rs33952548	.
PASS	AGT	rs144040326	.
PASS	AGG	.	.
PASS	ATA	rs9864412	.
common_variant	CGT	rs967454	.
common_variant	AGT	rs2230774	.
PASS	GGC	rs11208364	.
common_variant	TCC	rs1535330	.
common_variant	ACC	rs193084032	.
PASS	AAC	rs2224797	.
PASS	CGT	rs7900838	.
common_variant	GAT	rs7968684	.
PASS	CGG	rs486089	.
common_variant	ACG	rs7136561	.
common_variant	CCG	rs12947988	.
common_variant	GGA	rs73020697	.
PASS	TTT	.	.
PASS	TTT	.	.
common_variant	ACG	rs6509	.
common_variant	CCA	rs7580	.
PASS	CAC	rs6932660	.
common_variant	GCC	rs7217786	.
common_variant	CCG	rs2271603	.
common_variant	CGG	rs2838344	.
common_variant	CGA	rs2155722	.
common_variant	TAG	rs7210579	.
common_variant	AAT	rs3765595	.
common_variant	GTT	rs542998	.
common_variant	TCA	rs12658664	.
common_variant	CGG	rs11541392	.
PASS	CTT	rs7098448	.
common_variant	CGG	rs1805343	.
common_variant	TCG	rs11083462	.
common_variant	GGG	rs3745843	.
common_variant	ACG	rs75181912	.
PASS	CGG	rs777579024	.
common_variant	TTA	rs10754602	.
PASS	GAT	rs791541	.
PASS	CGT	rs41279198	.
PASS	ACT	rs11147974	.
PASS	GGG	.	.
PASS	TAC	rs11763269	.
common_variant	CAG	rs1053744	.
common_variant	AGT	rs11042500	.
PASS	CGG	.	.
common_variant	CCC	rs1142287	.
PASS	TCC	rs882745	.
PASS	ATC	.	.
common_variant	CAC	rs2240572	.
PASS	TGA	rs35006492	.
common_variant	CGG	rs167618	.
common_variant	AAG	rs1546961	.
PASS	CCC	rs3731760	.
common_variant	CAT	rs6746030	.

VEP annotated somatic variants

common_variant	AAA	rs10180721	.
PASS	CCC	rs73100512	.
PASS	GGC	rs3801066	.
common_variant	CCC	rs530168313	.
common_variant	CGG	rs9608973	.
common_variant	AGC	rs6695715	.
common_variant	ACT	rs2273526	.
common_variant	CGG	rs2303513	.
PASS	AAGACT	rs3830973	.
PASS	TAA	rs3750630	.
common_variant	AAC	rs3763695	.
common_variant	CCC	rs9420792	.
PASS	GCT	rs117852708	.
common_variant	TAT	rs61738919	.
common_variant	CAA	rs5362	.
PASS	CGA	rs17522707	.
common_variant	ATA	rs1990044	.
common_variant	GCA	rs17241389	.
PASS	TCT	rs6446202	.
PASS	TGA	rs1062753	.
PASS	AGG	rs9323910	.
PASS	GGA	rs268686	.
PASS	TGT	.	.
PASS	GGT	.	.
PASS	GTA	.	.
common_variant	GAG	rs35377445	.
PASS	AGG	rs7197262	.
common_variant	CGC	rs147508693	.
common_variant	TATTT	rs3998628	.
common_variant	CTG	rs2429908	.
PASS	GGT	rs2447099	.
common_variant	CGC	rs143734853	.
common_variant	CTT	rs7805	.
common_variant	ATG	rs3740471	.
PASS	ACG	rs187882127	.
common_variant	GCG	rs41275786	.
common_variant	ACC	rs1233555	.
PASS	GGC	.	.
PASS	CCG	rs3810108	.
PASS	TGG	.	.
common_variant	GGT	rs9982519	.
PASS	ATA	rs12145798	.
common_variant	GCC	rs11581248	.
PASS	CGG	rs779111224	.
common_variant	ATG	rs13106574	.
PASS	GCC	.	.
common_variant	AAA	rs11976455	.
common_variant	GTC	rs6647476	.
common_variant	GGG	rs2269914	.
common_variant	AGG	rs11668879	.
common_variant	TTG	rs2631365	.
PASS	TGG	.	.
common_variant	ATG	rs941650	.
PASS	AAT	.	.
common_variant	CCG	rs12942600	.

VEP annotated somatic variants

PASS	ACG	rs112153156	.
PASS	CCG	rs145107782	.
PASS	GTC	rs4980349	.
PASS	AACC	.	.
PASS	TCC	rs41302651	.
common_variant	CGT	rs34664116	.
common_variant	AGC	rs205966	.
PASS	AGG	rs35870005	.
PASS	TAT	rs948270	.
common_variant	CAG	rs78020607	.
PASS	AGG	.	.
common_variant	CGA	rs2288998	.
PASS	AGC	rs12703112	.
common_variant	TAG	rs4808709	.
PASS	CAC	rs10521578	.
common_variant	GGT	rs2278405	.
PASS	AGA	rs6354	.
common_variant	CGG	rs2248253	.
common_variant	TCA	rs1569951	.
common_variant	CGC	rs17183863	.
common_variant	CCG	rs1056846	.
PASS	AACGAAGAGTGC	.	.
PASS	TTT	.	.
PASS	ACTTT	.	.
PASS	ACA	rs11090629	.
common_variant	AGT	rs3742909	.
PASS	CGT	rs917208	.
common_variant	ACT	rs12065652	.
PASS	GCA	.	.
common_variant	CGC	rs1544402	.
common_variant	CAT	rs10754367	.
common_variant	TGG	rs12142616	.
common_variant	CGG	rs5908761	.
PASS	GGA	.	.
PASS	TAG	rs875097	.
PASS	GAG	.	.
common_variant	GGT	rs11548457	.
common_variant	CCG	rs2306324	.
PASS	GGA	.	.
PASS	GCA	rs58090119	.
common_variant	TCC	rs117804715	.
common_variant	AGG	rs12536873	.
common_variant	CCA	rs55776327	.
common_variant	CTT	rs1008335	.
PASS	CTGG	.	.
common_variant	CCG	rs139731922	.
PASS	AGT	.	.
common_variant	TAA	.	.
PASS	AGCA	.	.
common_variant	ATA	rs697210	.
PASS	AACC	.	.
common_variant	ACG	rs11556615	.
PASS	TGG	.	.
PASS	CAT	rs557622174	.
PASS	TGCC	.	.

VEP annotated somatic variants

common_variant	CAA	rs3780015	.
common_variant	CTG	rs10851866	.
common_variant	GCG	rs3934983	.
PASS	GCC	rs58802664	.
PASS	ACATATA	rs746073071	.
common_variant	TTT	rs1834	.
PASS	CAA	rs34275118	.
PASS	CGT	rs41285881	.
common_variant	CTG	rs3759259	.
PASS	CCG	.	.
PASS	CCA	.	.
common_variant	AGG	rs13050872	.
common_variant	AGT	rs237025	.
PASS	TGG	rs4803244	.
common_variant	GCG	rs1529733	.
common_variant	AAG	rs4341217	.
PASS	TAT	rs1390679	.
common_variant	GGG	rs1132645	.
PASS	CAC	.	.
common_variant	TGC	rs33976862	.
common_variant	ATA	rs74413846	.
common_variant	ACG	rs1744177	.
common_variant	CCG	rs3743244	.
common_variant	GGC	rs12645298	.
common_variant	TGG	rs3734296	.
PASS	TCT	rs237028	.
common_variant	GGG	rs17680881	.
PASS	ATG	rs3788764	.
PASS	CCG	rs2073138	.
common_variant	GGG	rs35105682	.
common_variant	ACA	rs572705	.
common_variant	TTA	rs606511	.
common_variant	GGT	rs394558	.
PASS	GAT	rs3217211	.
common_variant	ACG	rs146025212	.
common_variant	CCT	rs9573565	.
common_variant	ATG	rs1138454	.
PASS	ACC	.	.
common_variant	AGA	rs59223436	.
common_variant	GGA	rs5944856	.
PASS	TTA	.	.
PASS	CCT	rs10044956	.
PASS	TCG	rs12169610	.
common_variant	TCT	rs11851097	.
PASS	TTAAACAAACA	rs530289129	.
PASS	CCA	.	.
common_variant	CAC	rs251796	.
PASS	GTT	.	.
PASS	GGT	rs302858	.
common_variant	CTG	rs118141221	.
common_variant	AGG	rs12857479	.
common_variant	TCG	rs324356	.
common_variant	GCT	rs199687528	.
common_variant	CGG	rs12609379	.
PASS	AAA	rs11165376	.

VEP annotated somatic variants

common_variant	TGT	rs2290380	.
common_variant	CAC	rs513970	.
common_variant	AGA	rs6605530	.
PASS	GGCC	rs3214576	.
common_variant	CTG	rs2074603	.
PASS	CTC	.	.
PASS	CTGG	.	.
PASS	ATA	.	.
common_variant	AGT	rs41284222	.
common_variant	CGT	rs2292151	.
PASS	TGG	.	.
common_variant	CTG	rs200152166	.
PASS	ACG	rs2279322	.
PASS	CGC	.	.
common_variant	GCG	rs2228178	.
PASS	CTG	rs8036209	.
PASS	TTA	.	.
common_variant	AAC	rs2291822	.
PASS	CGT	rs77173980	.
PASS	CCC	rs12252784	.
common_variant	GGG	rs61741039	.
common_variant	CCTT	rs144703742	.
PASS	CGG	.	.
common_variant	AAG	rs76116020	.
PASS	CGG	rs895438	.
common_variant	CGG	rs3800592	.
common_variant	TTC	rs2276884	.
common_variant	AGT	rs5936308	.
PASS	CCTAGGTTGACTATCAT	.	.
common_variant	AAT	rs147529920	.
common_variant	TCG	rs12646286	.
common_variant	TAT	rs661561	.
common_variant	CCC	rs3181195	.
common_variant	CCG	rs12531309	.
common_variant	CGT	rs34377860	.
common_variant	ACT	rs2290207	.
common_variant	TGT	rs560191	.
common_variant	TTA	rs2602141	.
common_variant	AAT	rs16957730	.
common_variant	CCT	rs1045781	.
PASS	GCA	.	.
PASS	CAG	rs1697964	.
common_variant	CTG	rs1697963	.
PASS	TTA	.	.
PASS	CCG	rs10410833	.
PASS	ACA	rs9322994	.
common_variant	ATG	rs12147991	.
common_variant	CAG	rs2295275	.
PASS	ATG	rs3020967	.
PASS	TCT	rs1029237	.
common_variant	CGT	rs2269553	.
PASS	TGG	rs4971059	.
common_variant	GCG	rs35622844	.
common_variant	CAT	rs114415891	.
common_variant	CAT	rs2297889	.

VEP annotated somatic variants

PASS	GCC	rs11268748	.
common_variant	ATG	rs30774	.
PASS	CCC	rs200889110	.
common_variant	CTG	rs148858467	.
common_variant	ATA	rs7885599	.
PASS	ACC	rs1885117	.
PASS	GTC	rs12906081	.
common_variant	ACC	rs34350821	.
common_variant	AAT	rs2063010	.
PASS	TGG	.	.
common_variant	CAT	rs1073123	.
common_variant	CGG	rs10901220	.
PASS	GCA	.	.
PASS	CAT	rs12030928	.
common_variant	GCA	rs1802288	.
PASS	TAT	rs4826996	.
common_variant	GGG	rs1052773	.
common_variant	ATG	rs12664472	.
common_variant	GGC	rs3800294	.
PASS	TGT	.	.
PASS	AGT	rs35168566	.
common_variant	TCA	rs182730993	.
common_variant	CGC	rs2001324	.
common_variant	CTC	rs7898115	.
PASS	GTG	rs12254171	.
common_variant	CAC	rs7075277	.
common_variant	ATC	rs3750580	.
common_variant	CCT	rs1132079	.
common_variant	GAA	rs17634167	.
PASS	GAT	rs12796222	.
PASS	AAA	rs1046860	.
PASS	ACG	rs56058201	.
common_variant	GAA	rs705956	.
PASS	CTC	rs827958	.
PASS	TCC	.	.
PASS	GGA	rs753582974	.
PASS	TAC	rs2839509	.
PASS	GCC	rs12575062	.
common_variant	ATC	rs2301914	.
PASS	CGT	rs781247113	.
common_variant	TGC	rs16923472	.
common_variant	GGT	rs2734828	.
common_variant	TCG	rs2247238	.
PASS	GGC	rs7852539	.
common_variant	CTA	rs1716698	.
PASS	TCG	rs220147	.
common_variant	CGA	rs220159	.
common_variant	TCG	rs220150	.
PASS	ATA	.	.
common_variant	CCC	rs373842487	.
PASS	GGG	rs72836153	.
common_variant	TGG	rs62231899	.
PASS	TCC	.	.
common_variant	ACG	rs41277210	.
common_variant	CTG	rs4430871	.

VEP annotated somatic variants

PASS	CTT	.	.
PASS	TGC	.	.
PASS	AAG	rs9605536	.
PASS	CAG	rs41279154	.
PASS	GGG	rs3214918	.
PASS	TAC	.	.
common_variant	CCT	rs1220622	.
PASS	TTC	rs17031260	.
PASS	TCT	rs55721648	.
PASS	AAA	.	.
PASS	TGG	.	.
PASS	CCC	rs939592692	.
common_variant	CCT	rs79238281	.
common_variant	CCA	rs15493	.
PASS	GGCC	.	.
common_variant	CAT	rs11769825	.
common_variant	CTC	rs13246460	.
PASS	CAT	rs10857625	.
PASS	GCG	rs7079527	.
common_variant	CGG	rs10886789	.
common_variant	ACT	rs2289336	.
common_variant	TGC	rs1652727	.
common_variant	TCG	rs1866516	.
common_variant	TTT	rs4538426	.
common_variant	GGA	rs41307688	.
common_variant	GCT	rs181113399	.
PASS	CGG	rs147562907	.
PASS	GTC	rs2527189	.
common_variant	CTCCTCCTCCTCCCTT	rs763153590	.
PASS	AGG	rs2278128	.
PASS	AGA	rs4720537	.
common_variant	TGC	rs11554421	.
common_variant	AAA	rs910697	.
common_variant	TGT	rs3793771	.
common_variant	CAT	rs3734500	.
common_variant	ACG	rs11068780	.
PASS	GGG	rs3733979	.
common_variant	GCT	rs2270844	.
PASS	AAC	rs4134861	.
common_variant	CGG	rs114552728	.
PASS	AGG	rs2273739	.
common_variant	CGG	rs148023469	.
common_variant	CAC	rs1106841	.
common_variant	CTG	rs915927	.
PASS	ACG	rs25486	.
PASS	AGG	.	.
common_variant	GAA	rs3738590	.
common_variant	TTT	rs2666826	.
common_variant	CCT	rs11155787	.
common_variant	ATC	rs9484827	.
common_variant	ACA	rs1001242	.
common_variant	GAC	rs415434	.
common_variant	CGG	rs556775	.
common_variant	CCG	rs11774714	.
PASS	TCT	rs574606000	.

VEP annotated somatic variants

common_variant	CCA	rs139527148	.
PASS	AAC	rs537807113	.
common_variant	AGG	rs2306159	.
PASS	CCG	rs931713	.
common_variant	CTT	rs7781581	.
common_variant	AAC	rs4982766	.
PASS	AAT	rs4734883	.
PASS	CAG	rs7915	.
PASS	AGC	.	.
common_variant	AAT	rs1989839	.
common_variant	CGC	rs2301639	.
PASS	TGG	rs2071258	.
common_variant	GCG	rs7066295	.
common_variant	CTG	rs862708	.
common_variant	CCT	rs28444973	.
PASS	GGA	rs10822043	.
common_variant	CAG	rs2910443	.
PASS	TGT	.	.
common_variant	CTG	rs11666149	.
PASS	GTC	rs384148	.
PASS	AAA	rs4829778	.
common_variant	ATG	rs1055753	.
common_variant	CTA	rs7273242	.
common_variant	AGC	rs8182086	.
common_variant	GGA	rs11556528	.
common_variant	TGT	rs9636139	.
PASS	AGA	rs3217340	.
common_variant	TCC	rs8104929	.
common_variant	CGG	rs12067843	.
common_variant	TTA	rs1781873	.
common_variant	CCT	rs11710621	.
common_variant	ACG	rs1129093	.
common_variant	GAC	rs35215913	.
common_variant	TCT	rs8110062	.
common_variant	TCG	rs12590618	.
common_variant	ACC	rs489172	.
PASS	GTC	.	.
common_variant	TGT	rs10403445	.
common_variant	ACT	rs781839	.



VEP annotated somatic variants

ExAC_AF_Adj	ExAC_AC_AN_Adj	ExAC_AC_AN	ExAC_AC_AN_AFR
0.03174	3339/105188	3344/106210	50/9062
0.59	62613/106132	62619/106210	2897/9040
0.5578	50589/90694	56800/105742	2014/7116
0.6583	69519/105606	69713/106192	6668/9018
0.00002841	3/105586	3/105950	0/8478
0.2953	31211/105680	31254/106208	6444/9040
0.04284	299/6980	3248/77598	138/490
0.1961	20692/105522	20728/106200	1020/8948
0.8446	88054/104256	89278/105826	7524/8190
0.05888	1642/27886	2718/101626	18/1492
0	0/16528	1/98338	0/2218
0.04864	5055/103934	5060/106208	219/8630
0.6234	66165/106132	66176/106210	3985/9062
0.3329	34168/102638	34814/106182	2157/8880
0.1626	17030/104766	17089/106206	1800/8868
0.3122	16138/51688	21686/105112	290/4130
0.4952	51355/103714	52227/106198	3702/8800
0.000862	16/18562	33/93574	0/2336
0.6552	65788/100406	69137/106004	5393/8962
0.0291	2985/102584	3012/106146	1085/8866
0.2249	15921/70790	18666/105412	1432/5648
0.07192	772/10734	800/18980	3/248
0.2403	25294/105276	25312/106210	5901/9056
0.5914	62641/105912	62714/106210	5037/9064
0.03341	2529/75705	3614/106186	39/7432
0.4287	6683/15588	7053/17768	531/1308
0.4874	51507/105682	51594/106184	1750/8682
0.205	21746/106078	21762/106210	2297/9052
0.3108	24303/78184	26786/106100	1284/6162
0.014	1485/106072	1485/106210	27/9024
0.2046	21706/106108	21707/106206	398/9000
0.4068	36923/90774	39355/106038	3826/7728
0.76	79373/104444	80531/106162	7328/8984

VEP annotated somatic variants

0.2512	24777/98622	25581/106084	1949/8884
0.1905	19953/104764	20078/106192	367/8948
0.07686	8154/106094	8155/106210	502/9056
0.7744	82229/106190	82233/106210	8197/9066
0.3545	5064/14286	13462/100598	143/1298
0.2585	27200/105206	27350/106210	983/8992
0.2325	20973/90214	21904/105960	3827/7940
0.2084	20079/96346	21085/105646	2458/8182
0.2122	21458/101130	21678/103932	1199/7368
0.8428	86925/103136	88442/105530	7202/8388
0.2221	7272/32738	13991/101298	1291/4002
0.09028	9517/105414	9544/106208	158/8720
0.04679	4913/105004	4923/105730	70/8408
0.00001897	2/105444	2/106208	0/8682
0.2713	27361/100848	28168/104070	1754/8196
0.2818	27864/98882	28742/103936	2136/8076
0.03902	4117/105506	4117/106168	51/8604
0.059	6265/106190	6265/106210	102/9066
0.2969	31127/104838	31292/106208	3762/9044
0.1866	13882/74398	19195/106204	2624/7418
0.07413	3001/40481	5206/105250	74/4055
0.3431	36415/106132	36419/106210	4787/9066
0.2194	23289/106166	23293/106210	413/9066
0.05043	5350/106098	5354/106210	120/9056
0.6481	6084/9387	9772/15816	413/483
0.6328	5915/9347	9665/15866	268/345
0.5233	3653/6981	6228/12594	54/189
0.1714	17534/102292	17654/106204	716/9020
0.206	13690/66470	15028/105952	1465/5452
0.05208	5448/104600	5474/106194	120/8548
0.2647	23036/87034	25175/105904	2068/6706
0.0458	4722/103104	4796/106196	210/8698

VEP annotated somatic variants

0.511	19822/38790	43159/98228	1006/2688
0.384	37792/98420	39486/106038	1859/8658
0.6721	53970/80300	68601/105108	5675/7226
0.1784	15999/89694	17825/106002	2231/7478
0.03367	3566/105922	3571/106208	230/9002
0.02772	2646/95450	2691/106172	575/7942
0.1074	11408/106180	11410/106210	185/9066
0.3558	37774/106176	37777/106210	2383/9066
0.0811	8562/105576	8565/105678	1352/8468
0.2562	19449/75904	27518/106204	2622/7390
0.2649	26813/101226	27572/106180	1709/8866
0.4044	42860/105982	42915/106208	4269/9030
0.27	28551/105736	28673/106206	1963/9060
0.9431	57024/60464	98479/105300	6495/6708
0.4172	31240/74889	44028/106208	1322/7407
0.2833	29841/105338	29904/106194	2646/8794
0.3612	36376/100718	37501/106074	5276/8576
0.7639	81064/106122	81078/106210	8005/9060
0.4177	44292/106042	44328/106210	5170/9048
0.1157	12020/103854	12121/106208	326/8704
0.1814	12765/70357	17864/105844	1681/7332
0.0879	1649/18759	4874/101716	30/2233
0.005075	498/98130	509/106192	13/8346
0.1121	10487/93526	11378/106130	276/7910
0.2677	28319/105780	28365/106210	2733/9032
0.03945	160/4056	275/18182	56/1300
0.2879	296/1028	3116/60188	131/442
0.1095	11582/105748	11601/106210	209/9028
0.7193	43145/59980	67884/100490	2155/3750
0.2823	28745/101824	29556/105952	2486/8078

VEP annotated somatic variants

0.3291	5669/17228	7162/28820	268/1520
0.04319	4586/106176	4586/106210	76/9064
0.4415	5633/12758	6220/15516	157/370
0.1583	16717/105582	16764/106208	2387/8972
0.3927	41626/105986	41671/106210	6303/9064
0.5583	55089/98672	57055/104774	4496/7484
0.2973	31237/105070	31416/106202	1707/8914
0.1977	14912/75422	21517/106194	250/7302
0.1701	18057/106164	18061/106208	3585/9066
0.1652	16912/102392	17056/106200	611/8900
0.2736	25293/92440	25841/98930	2508/7844
0.6692	63706/95194	70007/106142	5559/7882
0.07791	7664/98370	7858/106196	262/8228
0.2135	22662/106156	22673/106210	5367/9048
0.3321	3684/11094	4571/16372	183/250
0.2697	27582/102288	27920/106162	1814/8876
0.01979	551/27846	1090/104406	14/2782
0.002675	284/106168	284/106210	7/9064
0.268	28282/105538	28352/105758	4841/8468
0.09617	10161/105660	10167/106210	219/8836
0.01148	133/11582	441/93610	1/1060
0.1903	19272/101248	19654/106124	3786/8756
0.1011	10308/102006	10334/105828	712/8426
0.008588	840/97814	849/106096	3/7886
0.257	23200/90256	25230/101712	1158/5428
0.3312	34776/105010	35036/106190	1708/8638
0.08369	8695/103890	8715/106206	191/8396
0.01269	1319/103910	1321/106210	29/8858
0.4173	42801/102564	43767/106154	2787/8920
0.3156	33223/105268	33417/106206	960/8922

VEP annotated somatic variants

0.2933	30953/105518	30963/105638	3113/8462
0.001677	176/104924	176/105648	5/8448
0.001466	155/105744	155/106192	7/9014
0.1427	11345/79530	12711/103880	1421/5924
0.1756	18507/105374	18529/105934	735/8416
0.1506	15685/104132	15771/106206	864/8826
0.1262	7964/63118	9431/104558	165/5046
0.3653	38722/106008	38742/106210	4250/9034
0.2626	27773/105752	27801/106208	1082/8736
0.5873	62095/105730	62251/106210	3321/9044
0.2139	22590/105596	22641/106196	2609/8992
0.0317	706/22268	1267/104326	16/2184
0.3823	40577/106146	40587/106210	726/9062
0.7104	75408/106152	75422/106210	5113/9048
0.00008333	8/96004	10/106136	0/8374
0.0183	1896/103584	1901/106204	47/9016
0.1871	19866/106162	19872/106210	2000/9054
0.03925	504/12842	749/37404	368/1202
0.09669	1187/12276	3134/47582	154/990
0.4009	15300/38166	30995/101492	2196/3848
0.165	17344/105140	17367/105772	1099/8474
0.2876	2832/9846	10151/60990	44/216
0.3606	13966/38725	26749/104298	1617/5638
0.06685	7099/106200	7099/106210	258/9066
0.7038	74346/105632	74675/106210	5364/9022
0.6318	67077/106160	67100/106198	5385/9062
0.676	71077/105142	71586/106088	5701/9014
0.2252	23851/105900	23877/106202	2194/9056
0.1631	17127/104994	17522/106200	552/9050
0.5544	11570/20868	42206/79376	827/1870

VEP annotated somatic variants

0.1048	11125/106142	11127/106210	325/9052
0.1044	10330/98968	10688/106124	2448/8794
0.4955	47585/96026	50662/106168	3338/8206
0.303	30366/100204	30798/106208	947/8198
0.8494	51773/60953	87883/105662	6306/6433
0.03137	3325/106002	3325/106210	56/9056
0.1836	16185/88140	16213/106048	3603/8420
0.2868	21733/75771	29835/106202	4086/7404
0.1421	14196/99880	14778/106170	288/8484
0.8907	94380/105966	94573/106206	7455/9060
0.3731	39615/106166	39621/106210	5515/9064
0.2107	22373/106194	22373/106210	540/9066
0.3714	39219/105592	39272/106206	3722/8994
0.2158	22825/105754	22867/106206	1294/9010
0.008719	908/104142	912/106188	34/8488
0.4836	50828/105110	51172/106210	5132/8992
0.2415	21330/88310	23035/105194	732/6460
0.3754	39261/104596	39449/105668	2995/8334
0.3164	22421/70866	32755/105926	1761/7278
0.5386	57103/106028	57164/106206	3418/9036
0.3338	35211/105482	35434/106204	1793/8952
0.168	17685/105272	17738/106206	3717/8942
0.06257	6627/105908	6630/106204	793/9030
0.3603	3172/8804	4166/16128	23/210
0.007691	814/105836	819/106210	10/9064
0.1256	13330/106116	13335/106210	1878/9066
0.00723	767/106080	767/106210	15/9060
0.5749	1719/2990	4812/12274	20/44
0.5682	42760/75254	60843/106202	2694/7348

VEP annotated somatic variants

0.4864	46217/95016	50377/105872	2280/7314
0.4245	41186/97014	44249/105498	1238/8116
0.2133	2039/9558	2483/16326	15/222
0.3865	40381/104474	40507/106202	7303/9056
0.2524	26698/105776	26769/106204	443/9038
0.05899	6253/106006	6254/106210	106/9064
0.3661	3930/10734	4348/13324	97/196
0.008209	870/105984	870/106210	17/8978
0.000009959	1/100408	1/106196	0/8872
0.6643	64566/97200	67597/105406	5055/7948
0.6443	68015/105564	68030/105596	5231/8462
0.1594	16922/106176	16924/106210	1537/9064
0.2325	24580/105732	24675/106192	3150/8696
0.5197	44291/85216	53554/105526	5667/7356
0.2716	28821/106128	28828/106210	1981/9062
0.6448	66107/102524	67905/106190	4287/8806
0.1606	17033/106050	17047/106210	2269/9050
0.3098	32878/106118	32886/106210	816/9056
0.1273	13482/105908	13488/106210	1204/9060
0.2925	31010/106000	31036/106210	4557/9056
0.5377	10372/19290	37060/87242	1158/1704
0.09754	10313/105736	10335/106210	206/9044
0.3562	37692/105806	37784/106206	1987/9044
0.0004286	9/21000	10/102372	0/2114
0.532	49462/92970	52232/106118	1349/6692
0.3606	37544/104112	37893/106182	4786/8726
0.2722	2925/10744	3255/13666	67/198
0.2513	25993/103436	26242/106196	1329/9002
0.00005858	6/102422	7/105600	0/8186
0.5456	5189/9510	9142/18312	375/477
0.003683	387/105068	389/106208	11/8960

VEP annotated somatic variants

0.193	4484/23234	10825/102590	62/2382
0.5434	7850/14446	8155/15494	626/1362
0.4115	4062/9872	5503/15862	209/1414
0.05596	913/16316	947/18986	10/1500
0.2862	28651/100100	29873/106080	648/8912
0.05537	5440/98250	5534/106178	132/8714
0.02517	1975/78482	2032/105592	39/6906
0.06232	6579/105562	6584/105722	1902/8458
0.27	24656/91310	26919/106008	910/7730
0.7351	76927/104652	77893/106198	8305/8924
0.1421	14654/103110	14717/106204	805/8746
0.0447	4745/106158	4748/106210	89/9056
0.3249	22873/70392	33235/105894	2404/7313
0.326	20298/62262	31875/104028	2281/6985
0.2267	23177/102226	23852/106142	1245/8996
0.7218	76605/106124	76648/106208	6265/9020
0.1417	14848/104800	14909/106196	1168/9016
0.02393	2273/94972	2294/106208	36/8090
0.01292	1214/93988	1276/106046	28/7454
0.2498	25695/102866	25917/106188	1306/8888
0.4002	24830/62038	35984/104486	4688/6334
0.2361	17503/74120	19359/106126	3010/7102
0.08596	9063/105432	9091/106204	277/9056
0.05447	5785/106200	5785/106210	120/9064
0.4313	22893/53080	36597/103856	1142/4702
0.0887	9191/103616	9287/106184	196/8612
0.4427	46946/106038	46993/106210	789/9046
0.2679	28178/105184	28333/106210	555/8960



VEP annotated somatic variants

0.1841	19440/105606	19453/106020	345/8494
0.6787	21198/31232	56171/98020	3622/4368
0.5409	40778/75390	57157/106210	1250/7417
0.2506	18045/71994	26044/106096	448/6676
0.4441	47145/106158	47148/106210	4236/9066
0.393	41529/105678	41656/106190	4596/8954
0.4254	45155/106146	45166/106210	5614/9064
0.4443	47170/106164	47184/106210	6198/9062
0.6301	66716/105880	66801/106210	8008/9064
0.5274	51771/98156	55044/106074	5884/8834
0.5279	51587/97728	55046/106074	5879/8816
0.09521	6519/68468	7076/105182	174/4554
0.01422	1509/106102	1510/106208	34/9052
0.08971	9022/100574	9515/105952	3731/7864
0.1946	20665/106176	20667/106210	3136/9058
0.07448	7902/106090	7905/106210	725/9050
0.4478	47249/105510	47272/105716	869/8456
0.07646	8019/104878	8025/106210	131/8960
0.4904	50577/103140	51175/106202	4513/8800
0.1841	2170/11790	8503/79144	113/452
0.5263	8545/16236	27929/82330	391/1772
0.01795	1906/106206	1906/106210	48/9064
0.3583	38047/106194	38047/106210	4328/9064
0.1358	11729/86378	12708/106144	1218/7536
0.1911	14402/75348	19269/106194	4886/7401
0.1207	9075/75171	12550/106192	1059/7350
0.3413	24874/72887	35039/106184	4379/7388
0.1771	18778/106050	18785/106206	403/9066
0.2272	23569/103716	23705/106196	694/9004
0.4787	45962/96022	48490/106134	2543/7910
0.3647	38718/106166	38725/106210	6870/9052
0.7058	50891/72103	72927/106146	5105/6715
0.3001	2727/9088	5536/26686	512/1666
0.1324	13912/105056	13948/105648	931/8448
0.01089	1148/105466	1149/105614	16/8466
0.09162	9616/104960	9642/105664	276/8440

VEP annotated somatic variants

0.6138	9286/15128	11970/20990	881/1540
0.3063	5555/18138	16217/86946	301/1258
0.8362	88686/106064	88772/106210	6757/9056
0.3805	6475/17018	6905/19524	306/1548
0.0216	2277/105396	2279/105622	37/8456
0.7226	76721/106172	76730/106210	7852/9060
0.7237	76748/106052	76798/106210	7892/9048
0.4366	46088/105572	46183/106204	3331/8990
0.2025	21403/105686	21429/106186	860/8714
0.1659	13236/79764	13967/106082	262/6530
0.1658	13837/83480	15503/105954	367/6960
0.0006507	36/55326	48/105616	2/3836
0.09577	9709/101380	9794/106210	140/8662
0.2592	27359/105536	27367/105650	1833/8468
0.3466	35416/102178	35918/105688	2559/8256
0.4819	51120/106074	51139/106208	4973/9058
0.3229	33612/104108	33911/106106	1156/8758
0.6738	71456/106048	71520/106206	6943/9058
0.3437	36500/106186	36502/106210	1647/9066
0.01677	1667/99422	1680/105612	61/8194
0.06271	6612/105444	6616/105702	101/8438
0.2973	31503/105980	31567/106208	4949/8946
0.01508	1133/75139	1613/105924	21/6789
0.1131	12003/106122	12016/106204	701/9066
0.4988	7986/16010	19925/79284	159/642
0.6891	72651/105422	72737/105590	4708/8456
0.6602	66349/100494	68994/105440	2633/7628
0.2164	22982/106178	22982/106210	1430/9066
0.7411	77797/104968	78149/105714	7218/8456

VEP annotated somatic variants

0.3921	35568/90704	37633/105496	1384/7582
0.2403	25368/105562	25381/105828	1609/8472
0.343	36084/105192	36197/105698	916/8462
0.3451	6274/18182	6388/19874	509/1784
0.006081	638/104920	638/105934	15/8456
0.5118	49494/96712	52651/106098	7264/8556
0.3779	38998/103210	39757/106022	2370/8118
0.5353	11020/20586	37758/85386	863/2612
0.382	37173/97308	39750/105844	3123/8800
0.5455	57391/105216	57545/105578	1967/8456
0.0187	1971/105382	1978/106210	53/8860
0.3509	33661/95922	34461/106180	1943/8266
0.2257	23947/106110	23953/106208	1415/9066
0.3575	37958/106182	37958/106208	4290/9066
0.3765	39972/106168	39987/106210	2580/9064
0.04584	4867/106180	4867/106210	2299/9036
0.03496	3713/106202	3713/106210	1531/9066
0.1761	18466/104882	18523/106208	451/9056
0.1751	18574/106080	18576/106208	450/8984
0.1068	1504/14082	2445/32566	144/1352
0.104	11041/106164	11041/106210	269/9048
0.3043	32304/106148	32310/106210	1272/9066
0.09322	9308/99848	9694/105958	1589/7656
0.2655	28067/105710	28087/106204	450/8684
0.186	2240/12040	6069/80976	56/416
0.09105	8531/93696	8716/105092	72/6714
0.06984	989/14160	3274/101458	35/2030
0.007846	578/73666	706/106118	8/7030
0.3734	39660/106204	39662/106210	1311/9066
0.1219	12945/106196	12946/106210	593/9066
0.299	31720/106100	31735/106208	2444/9062
0.5233	49833/95234	52674/105968	5493/7866
0.9707	71922/74093	102460/105796	6759/6794
0.09339	6915/74048	9863/105810	296/6835
0.1259	11398/90542	11796/106192	160/7856
0.2659	28147/105836	28184/106188	1353/8990
0.1975	20671/104650	20732/106208	473/8724
0.07454	7759/104092	7790/106204	948/8902
0.3034	31060/102380	31519/106184	2645/8478

VEP annotated somatic variants

0.1625	16785/103272	16829/105878	1870/8414
0.1204	12790/106186	12790/106210	955/9066
0.5456	57854/106030	57902/106208	6443/9058
0.369	25436/68941	37819/106176	443/7143
0.5512	38592/70010	51329/103950	4407/5710
0.328	34746/105936	34815/106210	2228/9030
0.2384	24162/101354	24615/106168	2233/8548
0.1422	1871/13162	4843/102148	457/1966
0.3025	31929/105552	31939/105798	851/8482
0.1375	724/5266	1241/13968	13/114
0.6698	68463/102216	70995/106138	4455/8942
0.207	1792/8655	2941/15804	16/310
0.2501	26547/106166	26554/106210	699/9064
0.04807	3662/76180	3813/106196	1103/7038
0.2825	28911/102354	29333/105844	2373/8392
0.02801	60/2142	128/15630	2/96
0.137	8142/59410	12434/105596	196/5482
0.6009	59508/99036	62242/105568	4594/8308
0.3615	38302/105942	38347/106210	2624/9046
0.7913	79396/100342	83750/106100	7407/8894
0.04044	4250/105086	4257/105632	81/8462
0.6761	36997/54724	64867/105062	4469/5925
0.0265	2615/98662	2642/106204	100/8076
0.06252	6499/103954	6516/106208	576/9030
0.06144	6508/105928	6511/106208	578/8920
0.4268	45218/105938	45276/106210	3159/9036
0.5541	10107/18242	31876/84336	1168/1984
0.1049	11102/105820	11111/106210	399/9058
0.1024	10879/106206	10879/106210	246/9066
0.001638	174/106200	174/106210	5/9066
0.02389	2533/106012	2534/106210	553/9052
0.4152	28231/67998	37600/103512	1494/5768
0.6278	66644/106160	66673/106210	7229/9064

VEP annotated somatic variants

0.4048	42890/105966	42899/106210	1636/9012
0.1398	14270/102088	14387/105252	165/8122
0.4375	46340/105918	46402/106208	2903/8922
0.2377	3726/15676	4236/25192	345/2062
0.5741	60944/106156	60957/106210	1354/9054
0.2343	23393/99854	24646/106184	2097/8574
0.0673	3289/48874	3997/104522	575/3338
0.1209	12392/102516	12626/106106	1269/8090
0.09601	8490/88426	8788/106110	129/6062
0.263	27482/104510	27549/106206	1881/8998
0.4882	36647/75071	51947/106202	651/7387
0.0002032	15/73804	20/106208	0/7284
0.269	25702/95536	27300/105178	2850/8292
0.3708	4956/13366	5404/16048	245/388
0.7282	77308/106156	77315/106210	4034/9066
0.3839	40759/106178	40769/106208	1729/9064
0.2434	25824/106096	25829/106198	877/9030
0.4663	35172/75431	48972/106208	4012/7410
0.294	22331/75961	30936/106208	3229/7435
0.2032	21582/106200	21582/106206	3263/9066
0.2551	25781/101058	26561/106118	5677/8980
0.05673	5953/104934	5960/105664	1130/8460
0.3876	41130/106118	41140/106210	883/9054
0.466	49420/106056	49445/106210	5981/9066
0.003644	387/106198	387/106210	9/9064
0.1875	17175/91622	18038/105928	806/7374
0.257	27200/105822	27261/106210	1720/9058
0.259	27460/106012	27509/106210	1883/9000
0.04192	3551/84702	3640/105704	65/6188
0.2983	31648/106084	31666/106208	1552/9064
0.01049	1102/105064	1104/106178	19/8898

VEP annotated somatic variants

0.6047	64187/106148	64188/106210	6307/9066
0.154	16214/105308	16246/105618	181/8460
0.2263	24026/106146	24033/106208	3409/9066
0.2468	26207/106166	26212/106210	1830/9064
0.9036	64209/71057	94773/106060	6662/7157
0.00808	855/105818	855/106210	6/8940
0.01332	1395/104722	1398/106210	17/8842
0.1062	10239/96392	10563/105928	237/8798
0.5339	55802/104518	56357/106198	6517/8968
0.7589	74749/98498	78329/105880	5936/8264
0.09848	10364/105244	10424/106206	212/9058
0.2633	24336/92442	24927/106150	1065/7492
0.2304	24245/105226	24280/106202	677/8738
0.3692	23050/62430	33252/102228	1693/5654
0.3099	32829/105946	32882/106210	1635/9056
0.3888	41268/106142	41272/106210	2891/9058
0.4591	48727/106130	48753/106208	5300/9064
0.3737	38117/102012	38677/106208	4148/8772
0.2599	16303/62716	21339/105190	2814/6546
0.2187	2778/12702	3492/24488	82/926
0.05934	6222/104856	6243/106210	124/9052
0.04526	4650/102736	4723/106204	578/8964
0.002282	230/100774	230/106210	2/8312
0.14	10154/72537	14726/106182	326/7205
0.3788	39583/104488	39779/105602	3663/8356
0.3192	33693/105566	33700/105618	3379/8466
0.3182	33303/104666	33453/105620	3302/8318
0.02333	2449/104960	2452/106200	278/8748
0.1679	17447/103932	17717/106102	4366/8438
0.0004883	50/102392	51/106096	1/8078
0.02707	2089/77170	2371/106022	37/6418
0.2071	21987/106144	21993/106210	753/9056
0.09971	9272/92988	9614/105926	999/7698
0.3721	39287/105570	39375/106192	2180/9034

VEP annotated somatic variants

0.1882 0.0006817	19985/106182 69/101222	19987/106210 143/106206	331/9066 2/8542
0.7127 0.7501 0.5161	4145/5816 79109/105468 9467/18342	26060/58136 79172/105582 10024/20296	169/272 7173/8458 307/1770
0.2667	23608/88532	26166/105072	2934/8196
0.7576 0.7081 0.7471 0.02511	79063/104360 72742/102734 78010/104416 2655/105724	79931/105868 74376/105676 78791/105650 2659/106210	7133/8428 6722/8352 7363/8250 45/9042
0.7949 0.579	84366/106132 60450/104406	84407/106200 60998/106210	8632/9062 3214/8876
0.382 0.4551	26451/69252 48330/106188	31362/104964 48330/106210	626/4378 5016/9066
0.6536 0.292	66767/102146 29014/99372	68865/106108 29620/106124	4533/8604 3911/8344
0.3524	1920/5448	6333/63986	62/116
0.266	24588/92438	26966/105792	4209/8614
0.5459 0.004696 0.2399 0.1974	31640/57957 30/6388 20786/86662 20812/105450	50934/105810 47/15380 24777/104796 20872/106202	1941/5629 0/177 1775/6504 503/9042
0.5483 0.06365 0.0003296	57288/104482 5550/87192 35/106174	57790/106006 5884/105842 35/106192	3553/9020 368/7036 3/9062
0.3831	40554/105852	40592/106206	3106/9054
0.3572 0.01944	37650/105396 2035/104704	37718/106202 2040/105564	910/8908 37/8260
0.06486 0.01919	6883/106120 1543/80426	6884/106208 1591/106192	724/9010 37/7264

VEP annotated somatic variants

0.8109	11069/13650	31092/35790	347/420
0.4274	39554/92536	40778/99774	1028/7776
0.06055	4773/78824	5140/105562	49/6242
0.7527	79688/105876	79820/106208	7705/9052
0.4298	32656/75971	46334/106208	1940/7436
0.2129	14608/68629	22014/105846	3432/7010
0.7031	53376/75910	74436/106208	4430/7421
0.24	174/725	1476/13162	3/56
0.3672	37626/102466	38523/106168	857/8986
0.3078	32539/105714	32612/106202	5054/9060
0.4657	49387/106048	49456/106210	2056/9056
0.845	61062/72259	87639/104556	1531/6334
0.008669	839/96778	844/105712	27/7758
0.3495	37083/106118	37097/106210	4028/9056
0.3273	24180/73876	28157/101834	1513/5416
0.3805	30008/78858	34143/101924	1408/5784
0.06302	6665/105760	6684/106210	1192/9038
0.4079	42889/105158	43547/106190	2806/9000
0.1724	17230/99946	17406/105880	580/7788
0.000408	31/75974	42/106208	1/7421
0.6279	66119/105306	66466/106208	7525/9006
0.001271	135/106180	135/106210	1/9058
0.001199	72/60028	91/105488	1/4434
0.08788	9087/103404	9236/106202	112/9000
0.2498	14941/59822	18551/105748	1126/5782
0.1016	10400/102342	10457/105938	155/8162
0.2569	27213/105942	27231/106210	2276/9054
0.1899	20153/106142	20154/106210	1113/9064
0.1423	15078/105972	15078/106210	1355/9066
0.4197	6749/16080	14558/51952	1028/1374
0.4253	43729/102822	44186/105222	5534/8362



VEP annotated somatic variants

0.07504	288/3838	1533/67760	34/1184
0.4432	46220/104298	46794/106204	7114/9052
0.265	26973/101768	27675/106176	3916/8570
0.3319	35020/105500	35104/106208	1853/9052
0.05201	778/14958	830/20500	66/1346
0.004035	410/101600	411/106208	5/8528
0.5848	44384/75894	61327/106202	6079/7429
0.4734	5070/10710	5670/14072	74/194
0.7485	79070/105634	79410/106184	7929/8870
0.5949	17526/29462	41193/98632	2010/2964
0.3945	41646/105568	41744/105964	3573/8486
0.8498	89716/105576	89756/105628	7728/8464
0.3859	38682/100242	39253/105898	2363/7940
0.3605	38133/105786	38161/106210	696/8970
0.01476	1549/104946	1556/106210	23/8786
0.2999	21820/72766	24769/105532	1435/6018
0.2139	22677/105996	22729/106210	3921/9042
0.3835	40719/106190	40720/106210	1729/9066
0.6784	72028/106174	72035/106210	8007/9062
0.3888	40630/104514	40944/106192	1844/8838
0.5901	61568/104332	62481/106198	4078/8940
0.2995	31487/105116	31776/105716	2605/8412
0.2881	30322/105236	30425/105874	2319/8464
0.1384	1863/13458	1999/16506	12/398
0.5881	62055/105524	62178/105808	5288/8458
0.6099	45130/73996	64342/106130	3477/7173
0.5302	6915/13042	11205/27358	328/812
0.6856	40322/58810	65462/103628	1711/3996
0.2457	26097/106200	26097/106210	782/9066
0.2028	21382/105438	21393/105626	524/8466
0.1121	11904/106202	11904/106210	1295/9066
0.3285	30439/92670	32684/105812	5638/8074
0.00001036	1/96504	1/106204	0/8146
0.5663	60112/106150	60152/106210	1388/9064
0.5532	50762/91754	55232/105060	4670/8412
0.005907	626/105976	626/106210	14/9020

VEP annotated somatic variants

0.148	15680/105922	15690/106206	2806/8988
0.03488	3692/105834	3701/106210	69/8992
0.5027	53267/105968	53306/106210	4355/9038
0.527	55916/106096	55943/106210	6776/9060
0.4455	32654/73290	36509/104988	1823/5842
0.3483	34401/98756	36361/105182	1478/8204
0.3982	35473/89078	36633/105528	1441/7028
0.3579	36946/103218	37359/105610	1900/8028
0.064	6659/104046	6689/106210	106/8882
0.008044	833/103554	838/106210	12/8970
0.01154	1211/104894	1215/106210	26/8588
0.3548	37538/105800	37641/106206	2195/9052
0.4513	43423/96226	45724/106110	1962/8398
0.153	16251/106196	16252/106210	433/9066
0.7233	72471/100194	75294/105634	1576/7774
0.2979	6104/20492	16189/98758	112/2388
0.4296	45591/106126	45598/106210	4551/9066
0.2887	27511/95304	29477/106016	2496/8556
0.004057	426/105000	426/105626	11/8442
0.01008	1058/104936	1058/106206	18/9056
0.6103	63982/104834	64460/106168	3490/8950
0.1035	7312/70644	8384/104018	1157/5158
0.3595	5751/15996	6189/18904	193/1506
0.5352	47465/88686	51084/105662	3259/7092
0.003057	15/4906	29/22046	1/174
0.01548	576/37202	723/104970	9/2870
0.0142	174/12255	475/93784	3/2049
0.4803	35751/74436	45440/101770	2079/5098
0.2104	22128/105148	22142/105776	349/8466
0.04672	2185/46766	2899/105458	353/4388
0.02067	2184/105678	2184/106210	207/9062
0.3407	35148/103176	35608/105846	3545/8396
0.1163	12333/106066	12347/106210	210/9048
0.02714	1839/67766	2077/106160	41/4510
0.7574	80365/106110	80407/106204	8045/9024
0.166	431/2596	4255/85396	28/152
0.1629	17274/106036	17283/106210	1439/9040
0.1075	7373/68572	8276/105576	1727/5804
0.2843	30183/106160	30197/106208	2415/9064

VEP annotated somatic variants

0.06986	7415/106138	7416/106210	2222/9044
0.6584	69870/106120	69900/106210	6659/9060
0.02346	2481/105758	2492/106190	67/8952
0.1882	2006/10660	2047/12696	22/188
0.1397	14832/106186	14834/106210	327/9066
0.0898	1658/18464	4076/82292	168/1808
0.2062	21149/102556	21556/106160	331/8130
0.4507	47762/105982	47782/106210	4598/8992
0.1516	16004/105600	16019/106208	635/9034
0.4807	51016/106126	51030/106204	3785/9032
0.7442	54531/73274	77882/106108	7015/7415
0.2631	16360/62170	22220/104656	1969/5064
0.02338	2381/101822	2400/105832	25/7944
0.2991	27289/91222	28523/106148	1856/7474
0.5659	60084/106174	60089/106210	2592/9066
0.04922	5223/106110	5223/106210	532/9066
0.04603	4727/102692	4758/106104	76/8508
0.06404	3137/48984	4148/104958	60/4858
0.2542	26933/105968	26977/106204	1310/9054
0.3004	31821/105914	31861/106196	3982/9064
0.7392	78415/106084	78459/106206	7462/9062
0.0214	2264/105812	2265/106204	45/9026
0.1579	15214/96364	15765/105998	2217/8262
0.1614	15951/98814	16641/106112	2806/8932
0.2211	21192/95840	22708/105564	5264/7792
0.06688	6591/98552	6902/106148	938/8360
0.256	27183/106196	27187/106210	1750/9066
0.249	18682/75035	25823/106204	4943/7354
0.1524	16178/106168	16180/106210	289/9058
0.05302	4703/88698	5000/106194	83/7358
0.3819	17857/46754	34344/105014	1013/5065
0.02255	2371/105138	2379/106202	1360/8854
0.3976	12645/31806	25095/99000	1106/1984
0.3092	32692/105740	32725/106194	559/8962

VEP annotated somatic variants

0.1563	16298/104266	16401/106208	556/8700
0.1342	14042/104672	14093/105758	1333/8394
0.01138	1208/106186	1208/106210	26/9064
0.1152	12222/106122	12224/106210	1428/9064
0.2023	21001/103816	21293/106188	1778/8666
0.00000966	1/103516	1/106178	0/8702
0.4987	52856/105982	52918/106202	7441/9064
0.007432	785/105628	786/106210	23/8730
0.4743	46634/98328	47718/106114	1542/7222
0.2979	30503/102388	30903/106174	2355/8698
0.1621	17146/105758	17185/106206	2144/9006
0.3403	35271/103646	35957/106188	2757/8554
0.3496	36339/103948	36611/106186	3173/9002
0.4114	13257/32222	34882/100162	1231/3368
0.3427	35177/102654	36208/106202	1738/8724
0.3121	2578/8260	4003/15446	57/396
0.2481	26147/105402	26176/105652	871/8454
0.1551	16459/106116	16462/106210	1278/9058
0.175	18581/106154	18585/106210	2261/9060
0.3336	15954/47822	21970/104192	2230/4190
0.2202	22635/102792	22908/106088	1390/8454
0.3895	41322/106090	41352/106210	3208/9034
0.347	36616/105510	36659/106210	2807/8992
0.1899	20047/105572	20094/105840	2174/8460
0.287	29145/101536	30141/106140	2469/8988
0.1705	17933/105184	17949/105620	388/8434
0.06552	6959/106206	6959/106210	82/9066
0.2641	27865/105504	27987/106206	3210/9012
0.4976	20605/41412	32262/101362	1396/2832
0.4093	41848/102248	43078/106164	3955/9030
0.1902	14229/74807	19623/106208	750/7027
0.4921	34059/69212	44755/105020	1243/5258
0.1271	12588/99038	13290/106140	252/8724
0.0831	8762/105440	8769/105616	369/8444
0.4336	45774/105560	45787/105626	4719/8464

VEP annotated somatic variants

0.2192	22652/103334	23018/105602	1724/8330
0.266	28066/105524	28082/105728	3585/8466
0.6517	66927/102702	67564/105166	5922/8082
0.4089	43135/105496	43327/105882	7065/8482
0.3274	34556/105544	34583/106080	849/8448
0.4298	3870/9004	9772/48356	26/186
0.341	35681/104634	35818/105748	621/8192
0.416	39586/95148	41051/103206	5864/6874
0.4012	41276/102884	42261/105348	5762/7728
0.2934	16258/55408	24881/104882	544/4358
0.5735	30520/53220	51745/103706	2518/4414
0.4503	4889/10858	6540/18854	98/216
0.2913	2452/8416	4113/15454	47/222
0.2472	25908/104816	26085/105982	2575/8370
0.261	27621/105824	27641/106208	2959/9064
0.351	36383/103646	37067/106138	2814/8592
0.2007	2266/11290	7426/55680	193/500
0.3807	1815/4768	11569/86764	158/788
0.2225	6525/29322	11982/102106	783/2828
0.1677	13583/80992	17383/106042	2693/6514
0.1096	11623/106046	11635/106210	174/9064
0.1344	14261/106112	14284/106210	593/9058
0.5727	58550/102242	59971/106182	4506/8738
0.525	39705/75624	54479/105710	3571/5562
0.371	39333/106014	39352/106208	2422/9024
0.311	27172/87360	29941/105554	2282/7570
0.1831	18685/102024	19366/106188	1288/8282
0.612	46047/75236	64960/106208	3949/7358
0.405	42198/104200	42819/106190	3199/8958
0.6211	43725/70404	63964/106098	4494/6876
0.6048	45323/74934	63419/106210	4605/7415
0.6051	45319/74893	63421/106210	4606/7413
0.3787	6612/17462	15113/86742	1246/2464
0.4542	47812/105272	48045/106202	5166/9034
0.3707	36936/99648	38483/106108	2481/8796
0.276	27425/99362	28695/106012	2979/8964
0.5492	15706/28600	25398/91582	1802/3318
0.06176	1125/18216	2943/97782	25/1706
0.3746	487/1300	2292/16236	143/234

VEP annotated somatic variants

0.1131	11485/101506	11813/106146	729/8800
0.06805	7045/103530	7082/104898	109/8472
0.2011	20849/103688	20914/106208	2450/8918
0.3984	34318/86132	39014/105946	2435/6792
0.1001	9772/97584	10083/106202	1730/8302
0.5762	60510/105020	60819/106208	4989/8940
0.232	24619/106100	24630/106210	481/9046
0.007736	811/104832	811/106210	6/8604
0.008173	868/106202	868/106210	35/9066
0.008982	793/88290	809/106202	6/7852
0.489	25906/52980	44224/102216	2087/4222
0.5105	26192/51310	37371/104896	3432/5510
0.2223	23488/105658	23534/106210	4699/9050
0.2365	24868/105152	24928/106202	1673/8844
0.9465	70668/74662	100062/106196	7147/7370
0.4599	48526/105514	48746/105956	5860/8498
0.2982	30783/103218	30974/106208	3113/8796
0.2355	24395/103608	24717/105804	5141/8038
0.3479	36896/106056	36936/106210	5525/9050
0.8305	29286/35264	73697/96342	2596/3282
0.2642	26724/101138	27434/106176	921/8534
0.7096	26355/37140	61560/98386	1531/3578
0.002706	36/13304	94/92608	1/374
0.00009059	6/66233	12/106198	0/6683
0.4763	50167/105332	50367/106198	5116/9054
0.3328	35329/106148	35336/106210	798/9066
0.1307	13828/105774	13976/106204	904/9046
0.1591	16159/101584	16350/106140	530/8494
0.5506	58351/105976	58420/106210	2192/9058
0.5607	59467/106052	59490/106210	6751/9064
0.2845	29860/104956	29960/106168	568/8656
0.5008	53036/105906	53062/106204	2283/8834
0.4523	45885/101444	46801/105870	2623/8174
0.6859	71196/103802	72224/106172	5895/8856
0.752	14436/19196	62310/86238	1079/1182

VEP annotated somatic variants

0.3717	14553/39150	30461/102050	866/3714
0.462	29382/63594	42291/104798	611/5016
0.4965	52009/104752	52226/105538	2125/8456
0.4717	50079/106158	50087/106210	5865/9062
0.007168	654/91238	686/105698	7/7534
0.5123	49821/97248	53762/104766	5099/7648
0.3122	33130/106106	33135/106208	601/9062
0.2667	2820/10572	3338/14612	36/190
0.2293	22759/99274	23452/106116	772/7878
0.4097	43174/105388	43297/106206	1948/8944
0.5665	42005/74147	60122/106208	1101/7222
0.3363	2281/6782	17856/85866	329/1550
0.369	17851/48378	26593/104358	875/3660
0.6519	68474/105030	68974/106192	4175/9026
0.6588	69924/106140	69937/106208	4198/9064
0.2652	26196/98790	27478/105896	3990/8814
0.1552	16422/105782	16448/106206	2736/9064
0.7948	84416/106204	84416/106210	4162/9064
0.4573	44530/97366	47034/106162	3523/8332
0.08434	8803/104378	8819/106194	453/8804
0.5836	61549/105460	61748/106202	2272/9032
0.3998	42440/106158	42447/106210	3984/9066
0.1605	16629/103578	16767/106186	855/8694
0.003213	338/105206	343/106192	131/8816
0.0000346	2/57804	4/106110	0/4852
0.5759	58899/102270	59758/105656	3767/8142
0.5153	54364/105494	54467/105902	4064/8468
0.4185	43245/103342	44035/106196	2113/8782
0.3383	35912/106164	35916/106210	4940/9064
0.4123	6113/14828	6868/18814	732/1318
0.3897	40830/104768	41138/106182	5645/8956
0.9043	15288/16906	17153/19260	1288/1546
0.8682	16172/18628	55058/64652	1594/1804

VEP annotated somatic variants

0.8867	48328/54502	89332/103170	4527/4816
0.00119	63/52962	69/106136	2/4910
0.008019	136/16960	305/83948	0/1460
0.2404	3141/13068	3400/16366	43/380
0.125	13278/106192	13278/106210	1079/9064
0.307	30757/100180	32120/106148	472/8676
0.2091	22145/105918	22160/106210	1778/8960
0.2136	22572/105672	22603/106206	2216/9048
0.04494	4759/105908	4760/106210	988/9046
0.08355	8784/105140	8815/106208	357/9046
0.5263	55655/105750	55777/106198	2594/8956
0.5305	53823/101450	55612/106122	3291/9012
0.08914	8639/96916	8832/106204	241/7798
0.002826	280/99066	290/106190	6/8034
0.3222	33660/104480	33817/106202	2682/8866
0.5401	5033/9318	30605/83426	1057/2034
0.05964	829/13900	2523/96600	13/818
0.2527	25507/100930	26043/106162	5742/9008
0.1851	19297/104226	19394/106204	789/8850
0.1228	13031/106078	13039/106210	273/9036
0.5857	61421/104864	61850/106168	1712/8660
0.313	3718/11878	4587/17096	44/432
0.08539	8992/105306	9005/106210	200/9058
0.00009088	1/11004	6/64902	0/688
0.152	15172/99820	15387/106180	1138/8794
0.1768	17429/98584	17852/106094	706/7950
0.5701	10851/19033	41222/90382	1318/1913
0.163	16550/101564	16914/105824	277/8012
0.2165	15527/71730	16695/106162	275/6016
0.5044	23510/46612	40395/102446	1047/2648
0.7935	84248/106170	84265/106210	7822/9064
0.03352	3545/105758	3549/106210	640/9014



VEP annotated somatic variants

0.398	41614/104560	41863/106192	1235/8838
0.7791	82465/105842	82687/106206	7594/9062
0.1156	5299/45822	9327/104992	257/4150
0.2485	26315/105886	26365/106210	3228/9026
0.1939	20522/105844	20553/106210	1980/9048
0.2605	27465/105428	27494/105638	2726/8426
0.1081	11143/103038	11425/106098	1874/7850
0.4825	50428/104524	50961/106190	1465/8908
0.08485	9008/106170	9008/106210	1253/9066
0.6531	33900/51903	59331/104792	5324/5734
0.2502	26564/106176	26564/106210	454/9066
0.008464	895/105740	896/106210	590/9064
0.4696	20292/43214	37511/103386	720/3128
0.5501	58393/106152	58401/106210	6314/9066
0.08694	9055/104150	9072/106206	724/9036
0.1709	12990/76018	17667/106208	3188/7438
0.02867	2938/102482	2986/106208	41/8752
0.1248	8282/66352	9737/102894	1145/5182
0.006554	695/106050	695/106210	13/9062
0.1459	14632/100266	14891/105894	1149/7850
0.3338	32556/97540	34248/105618	3816/7398
0.4708	21941/46606	34781/103818	3086/4184
0.01587	1546/97396	1579/106130	27/7608
0.7879	79333/100688	82935/106012	5905/8562
0.3146	33246/105680	33314/106210	3599/9058
0.1874	19825/105802	19831/106210	1222/9064

VEP annotated somatic variants

0.2023	20871/103156	20991/106192	2113/8994
0.6866	34944/50892	62269/102812	3812/4558
0.534	28372/53134	45860/101284	1785/4020
0.001701	14/8232	18/30690	1/612
0.2651	28068/105878	28101/106210	1736/9056
0.6266	66316/105828	66485/106208	3327/9034
0.2394	25307/105728	25350/106208	470/8978
0.5608	59551/106194	59551/106210	6634/9066
0.4345	45461/104638	45677/106206	5308/9000
0.2414	25173/104292	25550/106202	6548/8940
0.5099	10701/20988	27268/96434	524/1064
0.0835	8724/104476	8743/105582	1852/8368
0.03126	3246/103848	3257/105600	74/8336
0.08721	9253/106104	9263/106210	937/9054
0.1483	15553/104894	15600/105788	1521/8394
0.2796	29607/105888	29682/106208	1026/8942
0.177	18790/106184	18791/106210	588/9060
0.2094	22221/106110	22224/106210	1307/9042
0.0214	2272/106178	2272/106210	60/9064
0.3283	3555/10828	4522/15472	64/218
0.3634	37516/103244	37746/106178	2388/8544
0.5146	54485/105876	54584/106208	3445/9038
0.008636	767/88812	788/105826	21/6556
0.2341	23253/99328	23484/105562	1250/7522
0.3334	35352/106028	35365/106210	2083/9064
0.1049	11047/105354	11069/106210	976/8964
0.15	8440/56253	13688/105742	1105/6312
0.3557	6020/16922	6534/19312	573/1532
0.3065	32430/105818	32488/106210	518/9062
0.02496	2454/98336	2505/106138	46/8858
0.3418	36236/106012	36293/106210	804/9056
0.5778	61343/106158	61364/106210	5997/9066
0.004288	325/75799	484/106204	5/7239
0.1915	20306/106056	20319/106210	1049/9042

VEP annotated somatic variants

0.6987	52668/75382	73140/106208	6717/7423
0.394	41486/105288	41690/106206	7859/9022
0.2013	19444/96582	20344/105830	2473/8672
0.4261	44878/105324	44976/105670	4123/8470
0.01143	1183/103518	1188/106210	32/9030
0.2713	28774/106062	28793/106210	1541/9058
0.001776	175/98546	179/106182	0/8864
0.4257	43513/102208	44243/106030	2301/8170
0.0974	10324/105994	10350/106206	1635/9054
0.1437	15257/106158	15260/106210	1463/9056
0.02323	1486/63976	1843/106000	34/6140
0.02403	2548/106034	2548/106210	61/9036
0.5068	53753/106054	53783/106208	3834/9064
0.1956	20412/104364	20437/105634	1620/8456
0.3984	23789/59708	36234/106072	372/5467
0.00219	229/104554	229/106204	2/8776
0.2308	24417/105788	24453/106210	607/9036
0.6125	64673/105594	64877/106204	1511/8954
0.3812	40473/106186	40475/106210	2157/9066
0.2859	30185/105568	30199/105690	2165/8466
0.2877	27302/94898	27537/98064	3047/8758
0.2745	28992/105628	29067/106210	1363/8958
0.3769	40012/106156	40021/106210	7905/9062
0.3786	40205/106180	40207/106210	7790/9066
0.1652	17237/104368	17418/106204	1812/9004
0.22	23349/106126	23355/106210	407/9060
0.6331	67152/106068	67246/106210	8059/9062
0.2554	24460/95786	25715/105494	319/6946
0.06225	6611/106196	6611/106210	103/9064
0.2626	23648/90042	26700/106024	1575/7258
0.02978	2926/98246	2979/106104	69/7608
0.009841	1028/104466	1029/106202	29/8658
0.7213	76488/106042	76548/106210	6614/9062

VEP annotated somatic variants

0.3824	33144/86672	36235/106034	5371/8064
0.000464	4/8620	31/63860	0/308
0.007368	470/63788	518/106176	7/5834
0.1797	13010/72397	18959/106208	1565/7253
0.1366	6401/46876	7920/105688	129/4364
0.4128	30384/73612	40099/104290	552/6116
0.1273	13515/106196	13515/106210	2026/9062
0.1498	11207/74820	13277/104940	1391/5470
0.1533	5892/38423	11635/104812	141/4235
0.1943	20097/103436	20376/106096	2217/8328
0.2289	22906/100074	23899/106136	2689/8882
0.4072	13200/32416	27187/101142	1241/2936
0.001959	33/16842	35/19710	0/1524
0.3407	3319/9742	4430/16474	22/270
0.5414	327/604	2203/8876	123/202
0.5488	7478/13626	8292/16224	340/428
0.3942	41711/105822	41773/106210	1206/9018
0.2587	25267/97668	25909/106204	911/8330
0.0707	1110/15700	1313/20958	62/1520
0.5806	61531/105986	61580/106210	6989/9062
0.000471	6/12738	8/99598	0/688
0.4035	42829/106132	42839/106210	7022/9066
0.00006165	6/97318	6/106208	1/8098
0.1752	18487/105500	18490/105584	1912/8464
0.2568	26743/104136	26990/106188	3108/9014
0.2745	28578/104108	28693/105760	696/8256
0.7869	82963/105430	83041/105572	2804/8446
0.3657	38587/105526	38605/105682	2648/8470
0.6362	66934/105208	67084/105604	4489/8464
0.001451	29/19992	85/101856	1/2452
0.01014	1077/106186	1077/106210	13/9062
0.02214	2347/106018	2348/106198	41/9064
0.6784	71926/106024	72015/106204	8405/9032

VEP annotated somatic variants

0.7354	77954/106004	78079/106206	6565/9028
0.005888	616/104624	616/106204	515/8830
0.08961	9513/106162	9519/106210	1317/9058
0.3323	35275/106170	35285/106208	992/9066
0.6584	69871/106126	69895/106210	4675/9046
0.3441	36532/106160	36541/106210	1660/9064
0.3589	36123/100660	37613/106074	3625/8666
0.6645	70469/106044	70534/106206	7747/9040
0.6022	63771/105900	63858/106208	7413/9052
0.5128	54119/105536	54304/106204	3290/8950
0.01044	1070/102462	1085/105832	18/7900
0.001533	157/102394	157/105582	1/8228
0.07953	1008/12674	1307/27738	41/1476
0.1643	8270/50340	11309/104066	107/3190
0.4745	49081/103432	49783/106206	4713/8818
0.212	22489/106098	22493/106208	1900/9066
0.1818	17541/96508	17942/106200	514/8406
0.1785	17215/96446	17443/106202	1524/8292
0.07041	7473/106132	7475/106210	285/9050
0.004632	439/94766	454/105176	12/8422
0.007533	766/101692	776/106150	27/8142
0.3886	38815/99890	39599/105710	5226/8254
0.4404	19154/43492	34140/103762	2016/4564
0.312	32567/104384	32766/106200	1517/8490
0.4373	15919/36404	34152/99992	2116/2826
0.5437	57679/106094	57729/106210	3515/9058
0.04328	780/18022	826/20430	474/1826
0.3782	10370/27422	22128/102954	659/2838
0.6156	45539/73976	58574/101606	4352/4750
0.316	14454/45740	22015/102226	349/3496
0.08725	8628/98884	8996/106054	176/8862

VEP annotated somatic variants

0.02377	1687/70975	2466/106090	25/6541
0.000009644	1/103688	1/106210	0/9028
0.5678	60290/106180	60290/106210	3464/9066
0.08665	9132/105384	9154/106210	2701/9046
0.1645	2047/12442	2572/18104	184/266
0.2153	22853/106130	22861/106210	2362/9064
0.09429	9969/105730	9996/106208	200/9044
0.6349	39258/61829	62953/105530	4976/6042
0.05292	5617/106146	5624/106210	317/9064
0.1218	12718/104392	12753/106198	146/8292
0.5364	29885/55716	50033/104162	4232/5254
0.4281	45428/106124	45446/106210	6515/9066
0.545	56002/102752	57177/106124	5613/8972
0.1714	10284/59988	13140/104574	963/4550
0.298	31609/106054	31643/106210	3177/9048
0.1827	18473/101092	18732/105320	230/7276
0.4016	42567/105998	42584/106210	6494/9060
0.3876	41094/106012	41156/106200	5263/8980
0.5765	59983/104052	60470/105802	6607/8386
0.5576	59204/106176	59205/106210	6451/9064
0.2765	193/698	1610/26380	10/126
0.2849	21639/75964	30360/106206	433/7438
0.007877	833/105752	833/106208	12/9004
0.3935	41775/106176	41781/106210	7318/9066
0.3017	31658/104936	31800/105628	947/8444
0.7527	79855/106098	79899/106210	7627/9064
0.2821	27957/99086	29059/106032	5445/8762
0.4385	30161/68784	41257/105710	5076/6704

VEP annotated somatic variants

ExAC_AC_AN_AMR	ExAC_AC_AN_EAS	ExAC_AC_AN_FIN	ExAC_AC_AN_NFE
605/11212	2/7864	330/6614	2081/54022
6473/11210	2326/7852	4172/6604	36176/54326
5424/10038	1751/6508	3351/5898	28651/45268
7071/11124	2379/7770	4208/6570	38305/54044
0/11212	0/7846	0/6608	3/54344
4312/11144	686/7846	987/6432	13835/54170
22/154	27/468	4/306	49/4478
3120/11142	1168/7812	1237/6340	11633/54200
8907/11144	6789/7810	5104/6470	46277/53594
100/1798	0/1190	55/890	1031/13024
0/408	0/544	0/174	0/5584
147/10914	304/7582	309/6546	2080/53300
7377/11204	4083/7836	4204/6612	34595/54322
2377/11028	241/7732	2390/6378	22291/53018
889/11096	41/7844	1076/6232	10772/53824
1022/3204	906/4170	817/2016	10503/27578
6870/10872	3375/7678	3393/6388	25984/53110
0/324	0/472	0/1692	4/5960
8896/11146	7089/7830	3724/6572	30762/52672
122/10690	623/7328	38/6454	680/52554
2335/7446	1592/5022	627/4740	7044/35654
4/142	4/142	0/2	126/2614
1679/11206	714/7854	1044/6600	9996/54026
7981/11204	4554/7850	3511/6612	32835/54248
134/8932	0/6014	135/4525	1975/38406
57/164	61/146	500/1452	2155/4598
6215/11168	5528/7858	3796/6608	25862/54282
3720/11198	3386/7822	1004/6606	6172/54304
2501/7934	1749/5526	1638/4392	14672/41072
33/11210	0/7860	72/6592	1315/54288
2044/11202	809/7862	1713/6606	13669/54336
3178/9374	1239/5850	2465/6138	19819/45928
8914/11024	7372/7732	5238/6552	37623/53232

VEP annotated somatic variants

1705/11106	20/7766	1701/6550	17613/52446
2952/11084	4134/7768	1206/6468	8655/53606
314/11204	974/7856	451/6614	4584/54296
8752/11212	5344/7860	4953/6614	40891/54338
390/1142	355/1094	448/1390	2225/5380
3313/11068	475/7782	2155/6498	15312/53834
2509/10280	1656/6476	1311/6236	9850/46426
2313/10880	3874/7652	1439/6496	7189/51504
2695/11090	1748/7792	1496/6554	10738/51384
7911/10794	7604/7678	5955/6554	43347/52726
398/1362	1827/3118	323/2442	1559/12654
487/11138	0/7838	1480/6584	6924/54112
593/11130	213/7792	356/6596	3263/54070
0/11190	0/7806	0/6604	1/54124
2147/9248	426/7366	2118/6494	18419/52868
2199/9186	436/7398	2120/6420	18583/52496
1242/11206	10/7858	507/6614	1782/54138
490/11216	489/7866	675/6614	3960/54326
2171/11016	924/7812	2039/6578	16725/53548
3459/9013	757/6017	496/4529	4299/38161
114/6053	0/3853	268/1649	2509/21559
5917/11216	3324/7852	1882/6614	15752/54310
2475/11216	5572/7862	1422/6608	9195/54322
313/11194	0/7864	486/6606	4134/54288
73/119	45/111	938/1318	2240/3028
64/105	44/109	894/1279	2121/2857
47/94	43/107	1/2	1385/1995
1049/11180	3/7852	1178/6610	12302/53336
696/5074	835/4336	924/3584	7500/34458
314/11192	1/7830	500/6598	4102/53362
2015/9596	647/6898	1154/4564	14022/46892
212/11178	0/7834	539/6610	2722/53498



VEP annotated somatic variants

1350/3350 5704/10882	717/2804 4815/7712	1570/2472 3241/6484	12117/20524 18817/51528
6729/8144	6165/6284	3548/5642	23822/41086
2645/10172 280/11172	168/6942 0/7832	865/6136 253/6612	7177/44838 2615/54278
140/10236 1531/11206 4122/11208 761/11214	1/7338 424/7864 5536/7848 607/7844	149/4834 1071/6602 2837/6614 293/6614	1487/49710 6401/54340 18030/54342 4430/54342
1472/9024	1650/6023	1106/4529	8748/38434
2993/10430 2429/11202 1490/11212 7419/7652 5488/8970 2936/11144 2107/10550 9010/11214	753/7120 2430/7838 2515/7828 4932/4934 3077/6008 362/7824 1521/7474 3827/7808	2091/6420 2778/6606 885/6614 3501/3709 1993/4502 2511/6596 2182/6302 5522/6614	15341/51620 25393/54226 12926/54174 27727/30418 14282/38070 17588/54112 19985/51262 42107/54324
5547/11186 669/10986	5133/7856 425/7774	1888/6604 603/6146	18501/54260 7276/53326
2839/8953	7/5990	1066/4516	6666/36975
83/1720	0/1249	102/562	1068/7747
3/10190	0/6896	10/6368	457/50218
515/9612 1737/11174 2/202 13/62	1/6696 235/7838 8/194 19/52	1311/6198 1412/6602 0/34 2/12	7840/47724 18636/54122 71/1930 54/256
601/11158	1281/7824	593/6560	6548/54222
4517/5426 2397/11038	4012/5146 1754/7666	1543/1938 2143/6522	23971/32686 15960/52204

VEP annotated somatic variants

111/304	126/324	821/1690	1775/5442
422/11200 62/150 937/11182	1/7866 30/134 604/7826	258/6614 436/1614 643/6602	3543/54336 1548/3368 7963/54020
5641/11184 4951/10798 4322/11070 1415/9018 3285/11206	5756/7846 7552/7668 3790/7812 680/6021 3166/7840	2080/6610 3281/6376 2084/6428 1026/4525 702/6612	16791/54244 25098/50622 12802/53914 8584/38157 4673/54340
2374/11092 5312/11056	1918/7840 4430/7702	1143/6572 1086/6610	6594/53094 9198/49966
8039/9798	5960/7112	3282/5708	29563/48734
689/10526 1394/11206 51/144	273/7184 1830/7858 53/140	287/6436 1021/6612 78/246	4890/49852 10944/54332 862/2686
2992/10928 35/1436 5/11206	2921/7740 0/1580 1/7862	1406/6460 40/1404 29/6612	12349/52554 432/11532 226/54328
1445/11208	5186/7828	958/6612	10061/54342
780/11150	490/7826	988/6586	5926/54178
4/330	0/590	1/238	62/3608
1639/10722 972/11188	149/7538 4/7842	1151/6436 888/6614	8788/51444 7050/53392
5/11054 1538/10888 2796/11198	0/7714 1112/7684 3647/7814	450/6404 1424/5676 2503/6608	290/51062 14504/50834 18170/53662
472/10878 79/10986 4362/10932 5615/11064	10/7826 1/7810 777/7490 4195/7804	729/6504 194/6116 3573/6502 2148/6502	6804/53666 970/53584 27081/52800 14332/53990

VEP annotated somatic variants

2450/11210	1559/7838	2104/6614	16483/54314
3/11114	0/7828	8/6608	160/54082
1/11048	0/7850	2/6598	142/54216
795/9124	1/5280	835/5194	7656/39410
951/11198	364/7840	1435/6612	12216/54256
720/11170	1606/7788	1528/6608	8162/53900
796/5302	0/4126	885/4992	5753/31190
5706/11192	3111/7830	1972/6598	18753/54270
2662/11208	340/7842	2179/6606	17449/54284
7643/11142	3969/7824	3940/6594	32974/54094
3242/11202	3509/7836	997/6608	7768/53876
52/1062	0/1400	17/390	521/8560
4107/11206	2405/7840	2919/6614	22813/54326
9453/11214	7693/7866	4594/6612	34971/54316
0/10942	0/7604	0/6574	0/50918
190/11164	1/7836	125/6478	1468/53574
1180/11212	1206/7860	1115/6612	11040/54332
8/176	0/180	0/14	85/3472
37/176	92/322	12/38	369/3080
1205/2684	1325/2594	409/1030	6975/18572
2923/11212	3853/7822	769/6614	6513/54200
46/152	43/174	10/34	962/2796
1832/4809	1425/3666	703/2540	5768/16042
470/11214	3/7864	337/6614	4511/54342
9509/11172	6503/7830	4799/6588	36865/53950
9039/11208	7484/7858	4175/6612	29578/54320
9337/11012	7384/7764	3646/6532	33085/53758
1273/11122	149/7782	2317/6598	13316/54262
837/11174	1106/7752	1494/6580	10155/53734
1148/1998	918/1664	321/634	7386/12818

VEP annotated somatic variants

612/11204	20/7866	777/6610	6613/54320
869/11164	747/7816	541/6614	3967/52192
3123/9680	2665/6910	3232/5966	27676/49390
2197/10372	3806/7696	2508/6042	16887/51690
5382/7298	2393/4806	2580/3105	27155/30456
87/11216	1/7866	534/6614	2498/54222
897/9222	658/6658	829/5412	9244/44652
3363/8989	1491/6009	1033/4517	8910/38363
1476/10732	3401/7520	699/6282	5301/51962
10551/11208	6796/7830	6112/6612	49338/54264
3473/11192	4631/7856	1726/6608	17003/54344
1477/11216	523/7866	2013/6614	14744/54332
2955/11180	2531/7742	2611/6592	21811/54048
4115/11160	2542/7784	1722/6598	9554/54154
73/11170	0/7850	75/6574	695/53166
5151/11032	4567/7798	2235/6404	22566/53836
2665/10450	2266/6138	1624/5628	11552/44140
4202/11068	1825/7778	2542/6580	21696/53830
5714/8882	3594/5878	688/4490	7721/36910
8752/11204	5256/7844	3368/6584	28382/54272
2140/11132	2519/7778	1995/6518	21351/54028
1084/11138	79/7744	711/6586	9500/53800
493/11134	3/7856	448/6584	3774/54224
49/134	49/138	3/4	804/2160
44/11204	1/7864	2/6612	354/54160
647/11208	1377/7852	972/6608	6213/54292
38/11178	0/7862	23/6608	650/54302
22/48	70/96	0/0	390/632
3007/9000	4159/6014	3211/4520	23175/38216

VEP annotated somatic variants

4126/9950	2017/7290	3033/5776	26975/48442
3599/11082	3056/7744	2922/6606	24713/51902
30/128	18/134	5/14	561/2344
4299/11184	4222/7836	2098/6612	15629/53772
3232/11134	2415/7828	1887/6588	15111/54126
286/11200	160/7826	333/6596	2271/54222
35/90	51/128	0/0	1089/2696
29/11214	0/7862	73/6610	693/54218
0/11158	0/7810	0/6614	1/52672
3540/9614	3960/6902	4409/6252	35730/50044
3777/11212	4273/7844	4558/6614	38006/54336
1182/11200	7/7866	968/6614	12054/54334
2200/11204	136/7860	1807/6614	13351/54260
3986/9512	3428/6000	2802/6108	21805/43902
3412/11206	3460/7836	1656/6598	13831/54326
6591/10780	4503/7508	4345/6468	36228/52216
1099/11188	1159/7844	622/6594	8822/54274
1815/11170	297/7860	2684/6608	23617/54324
970/11202	397/7864	455/6614	7914/54220
1413/11196	1688/7832	2287/6606	16793/54232
380/568	630/774	675/1528	2782/6384
653/11188	0/7866	849/6612	8012/54220
6575/11126	3843/7772	1424/6592	15149/54180
0/498	0/772	0/2052	9/7362
4518/9498	2598/6842	2851/5040	28678/49312
2807/11132	3804/7826	2548/6054	17075/53334
23/90	33/128	1/2	779/2702
2560/11160	2493/7844	1817/6612	13597/53616
0/10820	0/7490	0/6532	6/52574
89/172	79/262	696/1195	1384/2752
22/11188	0/7830	10/6576	286/53924

VEP annotated somatic variants

288/892	301/1350	455/2508	1383/8746
140/292	136/322	21/34	2464/4422
102/250	134/300	14/34	1294/3368
7/292	6/318	116/1624	232/4756
2180/11130	1563/7796	2129/6594	17862/52750
170/10870	43/7756	576/6026	4028/52004
65/7186	13/5634	281/5658	1384/39858
765/11212	1172/7842	172/6614	969/54338
4280/9206	2376/6820	1588/4780	11770/47018
8680/10976	7136/7800	4202/6498	35913/53622
978/11150	99/7838	812/6606	10259/53708
211/11206	533/7862	234/6614	2666/54320
2233/8963	1561/5938	1853/4509	13538/37035
1885/8096	1404/5239	1627/3961	12118/32652
2488/11112	1800/7814	1838/6544	11337/53330
6981/11214	6964/7862	4662/6614	39969/54314
670/11014	1006/7722	919/6554	8417/53530
192/9896	1/6664	80/5842	1811/48814
64/10476	0/6536	192/6162	876/47372
3377/11186	2021/7858	1419/6612	12745/53182
2911/5058	2131/4632	1448/3872	9950/31428
2055/6860	204/4620	784/3986	8611/37336
554/11198	3/7858	584/6612	6119/54086
200/11214	0/7866	515/6612	4267/54342
1417/3134	1132/3600	965/1870	13845/28022
703/11066	5/7728	556/6576	6794/53222
6077/11180	4337/7832	3536/6604	25313/54282
2156/11142	3352/7752	1705/6574	15015/53836

VEP annotated somatic variants

1960/11216	79/7856	1678/6612	13022/54334
903/1396	1594/2752	1079/1732	8383/12860
5531/8959	2476/5978	3068/4490	25785/38100
3190/8927	712/6003	1167/4432	10011/36711
8201/11204	2756/7844	2735/6612	23630/54332
6342/11172	2682/7810	2562/6596	20331/54066
8005/11210	2724/7838	2647/6612	20930/54322
6354/11214	5659/7846	1701/6614	19431/54328
7295/11176	4293/7814	4255/6568	33456/54188
6201/10632	4082/7514	3495/6332	25616/51566
6193/10616	4070/7484	3493/6312	25557/51366
2108/7562	347/4940	363/3510	2588/34594
54/11196	1/7854	143/6604	996/54298
509/11038	157/7688	506/6280	3880/51442
901/11214	982/7862	1042/6612	10654/54328
496/11196	8/7866	537/6614	5094/54288
6804/11206	4580/7830	3117/6610	24322/54316
341/10988	422/7846	876/6544	5051/53926
3416/10766	2252/7664	3871/6062	30487/53400
26/142	37/190	21/32	695/3278
286/492	183/400	118/220	2233/5162
190/11214	1/7866	128/6614	1473/54346
4085/11216	1491/7858	2697/6610	20423/54346
562/9074	6/6180	1303/6020	6625/43010
1671/8896	302/6007	728/4506	6205/38061
1344/8886	300/5989	613/4485	5202/38020
4213/8875	1993/5930	803/4486	9968/37371
4161/11206	1039/7846	905/6612	10297/54280
6307/11200	2416/7842	820/6614	9047/53526
2209/9388	3538/6754	2866/6026	26131/49624
4050/11214	3839/7852	1594/6612	15211/54334
5176/8683	3401/5731	2944/4233	27779/36734
60/184	59/234	119/244	1352/3112
1437/11146	71/7804	929/6568	8293/54106
49/11212	0/7844	182/6612	834/54268
1743/11114	252/7824	900/6570	5584/54060

VEP annotated somatic variants

185/290	286/326	531/760	2819/4672
231/502	140/828	105/288	2401/7034
10152/11196	6254/7850	5441/6592	45559/54278
126/302	228/322	677/1630	1641/5194
191/11130	0/7820	65/6606	1760/54296
9260/11216	5390/7850	4601/6608	36869/54336
9264/11206	5391/7850	4590/6600	36841/54254
3598/11120	4394/7840	2764/6602	24973/54118
1249/11212	3199/7850	1767/6614	10129/54202
732/7700	15/5562	847/3884	9643/42172
696/7496	311/6094	813/3688	9804/44702
0/4754	1/3918	1/2744	31/28764
743/10578	2/7630	966/5930	5839/52504
1849/11212	1831/7832	2068/6614	14476/54318
5092/11026	3318/7728	2606/6580	16520/53078
6861/11206	5991/7844	2174/6612	22046/54274
4784/11012	3472/7754	2163/6442	16014/53192
5296/11148	6370/7848	4096/6612	37791/54292
5643/11208	2374/7858	1832/6614	17386/54340
143/10726	2/7332	23/6426	942/51494
1991/11194	644/7842	278/6596	3352/54284
2609/11204	5104/7850	1366/6612	11259/54272
30/9009	1/6010	278/4465	792/38368
3340/11168	1602/7852	288/6614	2944/54320
164/390	321/808	63/140	2930/5956
7632/11180	4619/7820	4859/6610	39843/54270
7387/10814	1817/7552	4818/6428	39381/51804
2501/11212	1854/7840	1031/6614	12559/54344
8077/11086	5462/7774	5217/6584	41630/54030



VEP annotated somatic variants

5258/10268	2425/7006	2845/6298	20222/48948
2274/11210	5/7846	1997/6614	17842/54330
5209/11134	2065/7716	2738/6606	20149/54184
123/292	9/152	604/1786	2095/6128
62/11204	0/7844	12/6610	545/54082
5796/9770	4885/7162	2821/5688	18928/49188
3560/11064	2366/7816	2755/6536	22734/52676
254/440	637/1016	185/302	4566/7824
2728/10874	2275/7706	2707/6236	20789/51662
7621/11042	5948/7832	3485/6588	28521/54210
139/11170	0/7864	171/6442	1543/53954
2375/9422	1766/6870	2179/5650	20027/49664
1896/11214	1690/7844	1846/6612	13085/54296
4838/11210	2965/7856	2368/6614	19672/54334
4989/11214	2979/7848	2605/6606	22422/54336
231/11216	314/7866	460/6614	1252/54346
190/11216	2/7866	460/6614	1250/54338
2096/11202	1983/7822	1285/6614	9516/53958
2097/11212	2046/7858	1285/6612	9540/54314
36/216	24/150	5/14	677/4374
577/11214	124/7860	1017/6612	8064/54328
3177/11200	4134/7844	2012/6610	15791/54328
556/11014	58/7776	392/6514	3785/51790
2474/11204	1058/7842	2486/6606	16928/54284
70/318	118/282	15/72	403/3584
1542/10242	2105/7324	327/5262	2203/48068
147/660	13/674	54/266	661/5878
61/7796	0/5636	6/5778	346/36878
4391/11212	36/7866	2807/6614	25531/54346
1536/11216	1319/7864	779/6614	7184/54338
2511/11208	1456/7846	2067/6602	19146/54284
4546/9974	4592/7272	2075/5018	24443/48608
8889/8961	5991/5991	3984/4325	36121/37826
545/9018	0/6016	501/4528	5225/38187
1653/9290	2207/6910	655/5870	5172/45536
4103/11190	2898/7794	1751/6602	14612/54188
1450/11202	624/7850	1507/6606	11985/53604
957/10850	46/7716	176/6472	4739/53462
2808/10870	1461/7666	1274/6096	15870/52406

VEP annotated somatic variants

2251/11190	2087/7814	1214/6614	7254/53586
773/11214	2144/7846	503/6612	4821/54346
4118/11186	4468/7842	3418/6610	29578/54252
1130/8539	2060/5656	2100/4006	18002/35564
3810/6960	3683/5176	2168/3898	17250/35178
4883/11190	4757/7818	2009/6568	13219/54270
4269/10814	3899/7650	1109/5794	7689/52368
255/1134	392/1168	34/298	627/7560
3157/11206	1370/7822	1898/6612	17433/54334
9/54	15/116	0/0	335/1448
9068/11178	6427/7840	4258/6612	33866/53236
24/148	0/248	364/998	658/2314
3218/11206	1235/7856	2863/6612	15452/54330
206/7154	2/5922	84/4296	1556/37962
1980/11148	1184/7804	1802/6508	17405/53378
1/72	0/60	1/6	20/422
546/6648	3/4550	638/3926	6363/32046
8013/10658	4064/7480	4448/6536	31197/51700
3117/11162	3141/7834	2761/6584	18225/54244
9517/11024	7463/7812	4859/6440	38266/52448
302/11206	0/7844	324/6610	3323/54176
4258/6419	2763/4278	1824/3159	17583/27044
203/10278	3/7484	71/6230	1965/50968
1313/11190	1093/7858	92/6614	2547/53810
1306/11190	1086/7842	91/6606	2558/54286
4302/11186	2661/7822	3384/6558	25528/54252
224/510	770/938	47/96	3149/6366
765/11202	587/7848	890/6602	6969/54192
1064/11214	268/7866	682/6614	7251/54344
16/11214	0/7864	1/6614	152/54340
78/11212	197/7864	74/6614	1062/54244
1959/6022	1072/3910	1908/4110	15250/33984
6434/11206	4286/7850	3725/6612	33495/54328

VEP annotated somatic variants

5250/11210	5772/7858	2629/6608	21219/54204
4704/11164	296/7858	1409/6610	6431/52220
3594/11202	2606/7810	2529/6614	25442/54276
57/296	58/342	12/34	1572/4918
6426/11214	4220/7848	3964/6610	35252/54334
4203/10050	1755/7440	1188/5976	11390/51402
288/4872	65/3594	200/2280	1657/24572
620/10972	1383/7588	744/6468	6911/52380
681/8720	1084/7004	667/4802	5517/46820
2260/11160	3055/7772	1743/6600	14537/53820
4578/8889	3136/5943	2579/4464	20585/37987
0/8929	0/5977	0/4432	15/37270
2696/11104	1314/7742	1899/6614	14416/51924
70/216	137/290	375/1606	1053/3096
9742/11214	5136/7846	5174/6614	41731/54324
5464/11212	4568/7864	2577/6612	18330/54332
4117/11202	3214/7850	1556/6612	12392/54302
3676/8948	4158/5980	2288/4484	17139/38134
2560/9029	9/6034	1606/4530	13327/38460
3512/11214	1080/7862	470/6614	7814/54342
4095/10818	1631/7738	469/6504	8030/52508
378/11210	0/7844	380/6614	3659/54166
4616/11196	3509/7838	2624/6612	24163/54334
7346/11208	7197/7864	2375/6610	18312/54266
6/11216	0/7866	19/6612	317/54338
1813/9394	283/6966	857/4526	11381/48546
2815/11138	1923/7834	2083/6562	14168/54158
2810/11168	1882/7850	2089/6606	14338/54290
217/8434	1/6394	147/4310	2908/45060
3467/11200	3219/7846	1961/6588	16770/54290
78/11134	0/7792	137/6524	803/53902

VEP annotated somatic variants

6203/11206	3498/7826	3892/6614	34953/54338
2882/11138	2113/7806	633/6600	6776/54224
2411/11172	1873/7856	1717/6612	11737/54342
5483/11204	2475/7854	1686/6612	12705/54330
6500/8464	5896/5896	3935/4382	32496/36286
21/11186	0/7812	182/6604	567/54200
9/11066	0/7854	145/6460	1144/53782
474/11118	4/7770	1441/6586	7640/51698
4548/10946	4312/7568	3972/6538	28266/53464
9261/10478	7179/7598	4629/6064	36904/50770
700/11184	473/7830	515/6602	6437/54034
2376/10250	2368/7142	1655/5830	13831/48530
2349/11174	2364/7838	1682/6608	13929/53902
2396/7794	1295/4616	2208/5506	13292/32802
2304/11198	1003/7854	2253/6600	18806/54262
3557/11200	1294/7844	3222/6612	23393/54334
7928/11200	6286/7852	2485/6608	19736/54308
4258/10814	2681/7690	2220/6178	19317/52578
2829/5652	846/4838	675/4616	6255/29032
72/242	4/274	12/30	970/3588
322/11180	2/7860	406/6552	4673/53952
178/11182	81/7846	200/6614	1904/53360
10/10828	0/7634	20/6174	149/51602
375/8707	2282/5794	696/4278	4479/36562
2949/11028	1984/7700	2315/6562	23343/53858
2570/11214	2007/7836	1706/6614	18865/54340
2553/11102	2002/7800	1692/6568	18703/53962
68/11134	1536/7810	20/6606	445/53680
2784/11180	3013/7816	873/6606	4418/52940
2/11096	0/7726	0/6542	45/52378
155/9790	0/5610	57/5364	1419/35732
2994/11208	5878/7848	545/6602	6678/54338
506/10634	238/7046	424/6174	5138/48250
3903/11136	3839/7830	2756/6594	19558/53974

VEP annotated somatic variants

3413/11214 3/10752	1413/7848 2/7428	1823/6612 2/6480	10490/54340 23/51826
83/150 6648/11206 199/346	124/176 6585/7840 226/324	18/26 5250/6612 1146/1744	1017/1456 39948/54264 3786/6078
1382/10134	2835/7098	1212/5926	12960/48200
8682/11190 8360/11058 8682/11184 90/11138	5564/7802 5110/7752 4966/7818 0/7818	5148/6594 4568/6434 4959/6516 369/6598	39994/53936 36005/53132 38915/53578 1529/54116
10190/11212 7612/11010	7764/7844 4780/7604	4281/6612 3929/6550	38695/54304 29721/53386
3002/6922 7877/11210	2839/5890 6289/7858	1662/3356 2486/6610	13134/35628 19756/54344
6351/10676 4208/10680	2379/7548 1611/7538	4683/6066 1604/6178	37796/52420 13255/51144
17/54	32/84	6/18	334/1080
2559/10644	2020/7222	1062/6372	11847/50006
5532/7732 1/89 1637/9986 1579/11168	4425/5373 0/107 1753/6580 4/7786	1461/2679 0/2 793/4444 1328/6600	14061/28904 28/1873 10209/44820 14566/53986
5606/10904 409/9938 1/11214	3991/7586 316/7118 0/7866	4164/6498 237/4902 0/6612	31390/53570 3688/46394 31/54326
6921/11202	3311/7858	1663/6602	17000/54186
3298/11166 75/11174	5657/7822 0/7844	2256/6596 127/6598	18422/54066 1723/53810
1381/11208 132/7604	589/7866 0/5896	211/6614 44/5442	2344/54324 1181/41246

VEP annotated somatic variants

154/170	102/152	1307/1590	3005/3540
5747/11042	737/7704	3513/6570	24944/50068
1780/9102	7/5900	147/4712	1602/42336
8902/11208	7052/7862	5166/6608	39048/54184
2448/9030	4063/6009	2149/4530	16283/38470
1138/8815	686/5844	997/4409	6841/35785
6838/9015	5279/6030	2923/4521	26572/38416
9/46	4/52	1/4	89/259
2032/11186	1385/7810	3462/6606	24632/53396
3635/11110	1951/7784	2094/6580	17553/54168
5606/11188	5063/7838	2693/6596	25311/54270
7992/8737	5119/5750	4248/4430	33575/36969
83/10092	0/7518	30/5320	653/51516
4054/11196	4972/7840	2346/6604	14251/54320
4619/9412	2362/6126	1500/4326	12523/41074
4756/9746	5390/7004	1539/5342	12830/42050
1689/11112	728/7764	350/6598	1708/54180
5893/10970	2218/7778	2770/6494	22795/53850
1453/10592	1020/7510	882/6214	10372/51984
1/9033	6/6034	2/4529	20/38441
6914/11110	5320/7798	3404/6406	33639/53980
5/11210	0/7866	0/6612	21/54336
3/5586	0/4716	0/2326	67/31358
2713/11086	821/7792	777/6586	3396/53486
643/3820	13/4214	1353/3948	9664/30748
571/10776	0/7482	1086/6144	6895/52998
1605/11208	2794/7834	2034/6608	14284/54264
1284/11214	2982/7834	1470/6610	9591/54320
2657/11214	758/7860	729/6612	7030/54246
176/322	180/338	582/1522	1754/4472
6631/11174	3991/7820	2399/6600	19166/53228

VEP annotated somatic variants

6/126	2/46	13/30	211/1918
5934/11108	3644/7808	2275/6586	19529/53704
3542/10522	299/7444	983/6310	13372/52270
4078/11192	1291/7842	2916/6604	19248/54102
9/214	0/150	68/850	304/4484
5/10664	0/7630	6/5914	320/52410
7336/9019	5654/6028	1821/4522	16094/38436
39/90	72/128	4/6	1015/2688
8193/11098	5292/7778	4731/6596	39089/54194
1263/2010	1143/1890	1123/1996	5487/10260
4972/11206	3092/7822	2558/6614	18578/54344
10075/11214	7844/7846	5603/6614	42728/54340
6557/10820	2733/7538	2315/5768	16005/51714
3819/11190	4863/7858	2677/6604	19558/54168
64/11118	0/7824	32/6454	1308/53752
1262/6182	132/4306	1934/5078	14744/39032
1230/11196	463/7856	1497/6602	12761/54212
5053/11212	3527/7854	2967/6614	21858/54342
7722/11212	6367/7860	4324/6614	33295/54328
5010/10942	3372/7588	2959/6574	21997/53552
6992/10950	4187/7638	4085/6410	31531/53426
2670/11156	2919/7770	1692/6596	14015/54128
2679/11102	171/7800	1862/6584	18076/54196
19/206	61/300	345/1610	599/3220
7371/11200	7775/7834	3652/6612	27388/54324
6039/8936	4583/5991	2763/4419	21868/37388
109/222	83/228	139/178	2311/3700
3129/5214	2544/4004	1719/2764	22802/31074
2888/11216	2410/7858	1751/6614	14511/54344
1287/11154	2/7838	1886/6614	15956/54298
608/11216	1/7862	694/6614	8529/54342
1729/10340	578/7166	1580/5576	17851/49098
0/10084	0/7122	0/5324	1/49852
4811/11202	329/7862	4177/6602	41151/54328
6739/10634	4143/7332	3308/6116	27328/49606
50/11182	1/7836	9/6608	398/54230

VEP annotated somatic variants

2755/11206	679/7840	860/6578	5638/54222
198/11186	1/7856	157/6548	2547/54184
6755/11184	2466/7810	3618/6608	28273/54236
6236/11190	6760/7864	2512/6604	23990/54282
2796/5930	2390/5418	2349/5142	15439/36360
3455/11082	2904/7764	2604/6582	17177/52072
3304/8818	2857/7056	2563/6052	17029/44260
3466/10842	2918/7804	2594/6542	17630/53136
175/11102	520/7838	405/6258	4518/53612
15/11170	0/7830	142/6600	647/53516
63/11208	0/7864	61/6612	993/53988
2009/11194	1889/7836	3010/6600	22091/54146
3771/10754	1067/7196	3673/6458	27757/51146
3012/11210	2597/7858	742/6614	7639/54346
8954/10448	3084/7222	5592/6496	42822/52018
296/808	933/1450	110/278	2060/7528
7283/11210	5342/7844	1816/6610	21451/54310
3431/10232	1945/7232	860/6264	15183/50352
17/11188	2/7616	47/6610	137/54052
66/11198	3/7864	40/6612	862/53950
8628/11188	3832/7800	3622/6602	35565/53778
700/6194	89/5138	353/3738	3751/35802
114/286	118/322	475/1602	1629/4712
4858/8820	5384/7280	2963/5632	24444/45630
0/100	0/126	0/2	4/1130
76/4342	0/3812	24/1478	451/20294
2/259	0/407	0/157	139/4580
5752/10078	2247/5330	3335/5948	19260/39874
3952/11210	3928/7834	637/6614	8095/54198
87/2374	0/3058	123/3484	1488/23524
92/11202	4/7864	118/6612	1295/54116
4738/10878	2572/7592	1609/6388	16729/53018
2630/11190	73/7866	579/6612	6044/54298
71/5928	0/5372	133/4232	1555/35104
9334/11214	7057/7866	4679/6610	37260/54294
19/244	0/134	3/40	161/1318
829/11198	19/7862	1284/6576	11022/54266
356/6100	727/5266	151/2642	3026/36372
4831/11190	2518/7860	1515/6612	12180/54334



VEP annotated somatic variants

446/11194	136/7860	229/6614	2778/54326
6358/11208	5165/7854	3727/6614	37098/54306
211/11146	0/7850	175/6554	1867/54282
14/90	18/128	0/0	454/2676
668/11214	19/7866	1255/6612	10162/54328
90/358	58/358	65/1684	267/6174
1826/11016	1870/7664	1509/6332	11840/52612
7844/11200	6287/7852	2484/6608	19665/54232
1594/11196	2712/7846	826/6596	8354/54092
4846/11208	6625/7860	3778/6614	21145/54320
7089/8992	5094/6006	3009/4517	26223/37787
2010/6970	2606/5346	892/2974	6394/32814
79/10860	0/7710	72/6146	1290/52600
4523/9740	2522/7116	1244/4294	10474/47174
6826/11206	7359/7862	4117/6612	29824/54328
302/11170	0/7830	400/6612	3324/54332
267/10900	0/7590	410/6552	3349/52688
185/5452	0/3198	346/4512	2266/25932
3918/11112	1101/7864	1479/6612	15123/54240
2872/11116	1687/7766	2043/6608	16625/54266
7051/11180	3546/7828	5162/6606	42733/54312
119/11090	0/7778	511/6590	1386/54242
688/10070	657/6550	1195/6294	8720/49026
912/11152	815/7794	651/6612	8048/52508
1260/11024	848/7654	1007/6506	9556/50540
451/10544	12/7046	261/6386	4406/50538
2543/11216	910/7862	1485/6614	14264/54340
1360/8910	3045/5945	395/4363	5599/38059
2406/11212	868/7844	1102/6612	9831/54340
293/9734	0/6338	423/6110	3632/44006
3339/5778	1730/4027	964/2677	8167/22364
148/11182	1/7842	46/6550	780/53734
1167/3346	891/2446	485/1142	4655/13434
2505/11186	2926/7796	2326/6604	20120/54182

VEP annotated somatic variants

983/11078	1247/7818	1341/6218	8948/53516
580/11066	1234/7792	706/6596	7390/54090
43/11212	0/7866	109/6614	970/54330
2549/11194	2850/7830	769/6614	3562/54328
2548/11040	500/7658	1600/6552	12499/53004
0/10928	0/7720	0/6558	1/53034
8083/11200	6419/7860	2483/6602	20191/54228
20/11190	0/7864	36/6614	702/54168
4699/10404	3457/7376	3054/5928	24503/50740
2589/10864	2040/7576	2020/6164	15658/53002
1097/11174	867/7822	693/6586	10076/54072
2513/11022	895/7794	1500/6152	22096/53268
2580/11164	916/7836	1567/6496	22718/53820
1487/2170	828/1710	710/1898	6011/16172
6169/11052	3104/7650	2161/6520	15890/52464
77/194	7/288	18/34	963/1968
3098/11190	1587/7810	1823/6604	15443/54258
1674/11206	3026/7812	820/6614	5993/54326
2015/11206	2706/7834	955/6608	6907/54344
1013/3324	1068/3728	600/1518	9045/24600
3008/10938	2231/7678	1319/6046	10819/52692
2912/11188	1674/7852	3194/6614	25422/54336
3771/11194	3166/7846	2595/6606	21193/54088
3193/11210	212/7846	987/6614	11661/54344
1781/11144	2413/7818	1424/6610	15587/53152
1134/11110	18/7772	1573/6602	12868/54238
452/11216	1393/7862	832/6614	2906/54346
2731/11114	5/7818	1563/6532	17586/53966
1609/3334	1327/2948	581/1118	9536/20136
2886/11144	4282/7806	2612/6592	21585/53260
4393/8931	581/5978	741/4474	6137/37932
4214/7050	1702/4914	2428/4386	19301/37522
482/10988	1503/7748	1179/6486	6826/52260
598/11202	1425/7790	206/6606	5472/54302
3855/11208	4326/7840	2197/6614	23389/54338

VEP annotated somatic variants

1402/10974	1403/7336	1222/6560	13324/53108
1716/11212	1803/7798	1286/6614	15128/54338
6948/11000	6274/7750	3722/5948	32943/52964
2984/11194	1181/7810	2722/6606	22988/54310
2508/11210	1232/7840	2651/6614	21392/54332
44/118	25/130	1/2	1137/2224
2580/11166	1167/7772	2702/6578	22450/53922
2831/10346	1129/6930	2580/6038	21085/48484
2944/11170	1187/7826	2679/6558	22369/52576
999/4702	1013/3856	1578/3586	8941/28322
3075/4974	1878/4050	2086/3294	16052/28298
48/108	63/160	4/6	1211/2742
35/120	70/108	15/190	387/2186
1448/11148	2511/7778	1848/6542	14797/53924
1837/11214	619/7864	2020/6610	15463/54228
2340/11162	3281/7824	2354/6604	17728/53032
18/104	1/132	0/0	876/2958
165/474	141/434	56/126	977/2292
1421/3440	687/1608	430/1764	2636/10304
659/8082	418/6316	1012/5522	7417/40690
1436/11166	340/7810	1082/6610	6553/54302
1290/11192	1855/7834	1338/6612	6731/54316
6019/10686	3082/7436	3395/6106	31778/52468
1975/7612	2499/5952	2044/3604	21870/38878
4632/11186	3326/7824	2192/6608	20571/54276
2966/9828	3420/7200	1664/5868	13810/47308
1566/10670	216/7512	1438/6472	10665/52688
4659/8939	4506/5991	2597/4465	22716/38046
5436/10806	3688/7594	2904/6522	20799/53328
6210/8735	4424/5894	2252/4197	20938/35910
6262/8932	4435/5977	2309/4456	21654/37733
6259/8925	4436/5976	2310/4452	21650/37707
97/314	230/682	17/62	1752/5776
6386/11054	3598/7744	3299/6570	21570/53912
1906/11110	2001/7750	2671/6578	23904/52450
2830/11160	1559/7810	1896/6614	14995/52600
1241/2046	963/1852	890/1348	8857/14978
123/772	7/2178	95/464	800/10278
44/130	85/184	63/222	105/358

VEP annotated somatic variants

2316/11172	18/7816	546/6612	5643/53140
2531/10954	7/6700	465/6580	3164/53904
1325/10958	735/7756	988/6528	11824/52766
2292/8818	2149/6620	2241/4456	21351/44728
516/10054	1098/7244	737/6166	5191/49950
6759/11038	5715/7796	2956/6534	30390/53750
1612/11200	6/7866	1628/6604	18334/54292
14/11178	292/7814	45/6596	414/53574
26/11216	292/7860	44/6612	429/54346
14/9618	287/6898	41/5338	408/47392
1611/3210	2322/4064	731/1616	13912/28558
2919/4644	3245/4970	922/1988	9154/22884
3024/11210	1401/7848	810/6600	8613/54144
2551/11110	1352/7808	1483/6452	14184/53894
8703/8934	5994/5996	4177/4425	34528/37697
6542/11198	4704/7826	2191/6596	19422/54302
2116/11072	601/7468	1875/6530	19061/52620
1331/11126	446/7808	961/6374	11049/53230
5515/11184	433/7848	2418/6610	19493/54276
1967/2162	3208/3298	735/840	13694/16164
1732/10674	2140/7260	1581/6194	15092/51656
1126/1684	1942/2994	467/694	13782/18520
1/528	0/298	1/126	32/4520
0/8126	0/5663	0/3484	6/33761
3314/11158	2007/7794	2743/6592	28211/53996
2364/11210	1915/7846	2340/6612	21613/54316
884/11158	0/7862	970/6580	9742/54100
1585/11184	341/7846	1754/6614	9092/53204
7508/11180	5817/7840	3844/6584	30716/54230
5741/11198	4721/7854	2982/6600	29713/54242
2968/11160	1983/7822	1808/6540	17856/53772
4582/11204	3540/7848	4197/6604	30983/54316
5128/11092	4741/7776	3136/6384	23581/52190
8248/11174	7171/7850	4603/6612	35856/53694
830/1036	669/678	147/178	6263/7720

VEP annotated somatic variants

1130/2098	596/2566	1193/3448	6172/17482
2767/5552 6529/11204	1116/4464 3335/7832	2281/4628 3598/6600	17123/32650 28799/54046
6347/11198 52/8356	4750/7852 0/6504	2950/6610 129/5636	21636/54338 390/48026
6965/10438	6068/7256	2627/6350	21041/50642
2051/11214 26/90 3774/10484	2178/7862 22/128 2051/7452	2208/6610 0/0 1243/6024	20247/54286 900/2654 10974/50916
4092/11072 4579/8778	813/7804 45/5954	2836/6472 3298/4443	27073/54068 29020/37663
173/532 1624/4596 9066/11110 9217/11212 3754/11100 1122/11214 10206/11216 6381/10558 526/10984	82/356 772/2736 6247/7796 6274/7862 679/7792 159/7862 7779/7866 5736/7602 406/7766	99/246 607/1440 4635/6580 4655/6612 1433/6606 801/6614 5897/6614 1806/5804 581/6280	1350/3378 10504/25556 33127/53800 34059/54318 12652/52148 9837/54186 43881/54344 19374/50544 4769/53672
6395/11192 3603/11200 1955/10902 20/11182 0/5978 8519/10834	5072/7856 3471/7850 2402/7684 0/7842 0/4240 4952/7692	4274/6606 2714/6608 765/6502 4/6550 0/2362 3576/6480	35266/54106 19519/54336 6926/52816 139/53738 1/29020 30276/52904
6082/11198 2925/10878	3548/7808 22/7450	3394/6606 3706/6468	29382/54320 28741/52858
4773/11210	5638/7856	1911/6610	13043/54324
114/286	70/316	307/756	1923/4316
4417/11054 266/296	2741/7678 223/324	2504/6550 1442/1634	19668/53518 4568/5030
326/376	412/430	1523/1702	5471/6212

VEP annotated somatic variants

4561/4996	3392/3588	3829/4298	22426/25504
3/4902	0/4194	7/3094	50/29030
1/372	0/476	37/1468	35/5102
48/186	75/306	429/1618	822/3054
2267/11214	1376/7858	889/6614	6888/54342
4264/10588	2214/7292	1849/6386	16014/51256
1844/11170	1187/7832	1553/6610	11933/54274
1852/11180	1186/7834	1556/6608	11935/54090
503/11208	0/7864	314/6550	2620/54232
530/11126	100/7776	513/6594	5783/53938
6313/11148	5548/7836	3477/6592	30143/54152
6172/11114	5420/7806	3457/6592	29157/52930
665/10508	0/7768	590/5718	6499/49850
12/10530	0/7446	15/6132	221/50648
2792/11104	2731/7730	2878/6564	17273/53550
137/374	317/402	72/138	1745/3738
37/486	1/746	37/438	573/5068
2944/11080	1466/7770	1197/6592	11447/52856
1690/11192	1039/7828	1623/6602	11842/53724
4650/11192	643/7856	260/6612	4950/54318
7903/11106	4678/7772	4530/6518	31375/53754
58/222	16/312	100/204	1060/2982
447/11208	4/7858	648/6614	7057/54046
0/112	0/144	0/8	1/2842
1021/11158	5/7824	1019/6614	10405/52926
868/10898	1251/7346	1664/6260	10250/49532
492/1282	1461/1507	272/447	3936/8457
1343/10940	832/7644	1085/6000	8940/52068
1182/6388	805/5156	988/4006	8447/36850
1321/3208	2078/3196	873/1592	10713/24136
9179/11214	7727/7866	4923/6606	40161/54318
138/11152	171/7840	24/6604	837/54118

VEP annotated somatic variants

5335/11148	1064/7742	2422/6600	23406/53836
9271/11210	3976/7854	4905/6610	41693/54198
345/3246	469/3198	516/3130	2499/21624
1676/11176	3537/7814	1763/6582	13123/54200
1354/11166	67/7850	1751/6596	13169/54094
2340/11210	2667/7844	951/6614	11971/54244
1738/11146	1139/7798	770/6532	3792/52730
7158/10960	3564/7628	3478/6550	26874/53558
1098/11216	1046/7858	294/6614	3749/54318
5024/6985	4085/4819	1133/2265	12765/24332
4316/11210	2993/7838	1782/6614	13566/54346
93/11192	43/7858	1/6614	152/54180
2295/3606	1080/2324	1240/2564	10391/21758
4839/11188	3379/7850	3806/6610	30611/54336
430/11202	2171/7846	250/6614	3034/53808
1512/9029	1202/6017	425/4530	4962/38488
196/10868	1/7778	452/5510	2031/53152
1737/6776	947/5112	218/3230	2289/33144
69/11202	1/7866	9/6530	532/54292
1354/10880	2007/7694	771/5650	7655/52522
3712/10336	3154/7478	1637/5756	15375/50446
2093/4072	1774/3262	714/1440	10463/23414
134/10690	0/7504	120/5918	1198/49952
9367/11126	6912/7832	5151/6374	40746/52252
3886/11172	3151/7834	1875/6582	15663/54152
1293/11212	6/7862	1159/6614	14204/54234

VEP annotated somatic variants

2195/11078	2819/7840	1014/6590	8996/53460
3125/4782	2216/3156	1584/2062	16861/24708
2212/4740	1095/3736	756/1146	17367/28176
0/164	0/128	0/22	5/2230
4697/11204	3059/7836	1102/6608	9826/54172
8653/11172	6308/7830	4532/6584	32777/54140
1401/11162	725/7824	1823/6568	16502/54108
7088/11212	5617/7856	3524/6612	26748/54346
4887/10902	3532/7716	3143/6522	20501/53470
1440/11048	1387/7732	836/6402	9381/53418
558/1080	1771/2350	347/566	4912/9300
1867/11100	368/7782	261/6554	3675/53696
167/11048	0/7674	308/6592	2276/53222
386/11188	3/7864	698/6602	5629/54304
2806/11100	275/7778	920/6598	7947/54034
4576/11172	3487/7816	1726/6610	14207/54248
3854/11210	4080/7858	780/6612	5897/54342
2290/11200	1293/7858	1715/6610	13234/54302
100/11214	2/7866	231/6614	1502/54322
23/92	9/132	1/2	1188/2760
2282/11034	426/7646	2927/6488	24398/52930
4633/11146	7730/7860	2917/6598	22807/54138
35/9436	0/6528	147/5086	549/46014
1858/10532	1427/7360	1227/6138	14908/51206
2907/11216	588/7862	2092/6614	20797/54254
1027/11146	547/7822	616/6314	5417/54050
507/6279	0/3886	803/3614	5595/28045
86/282	111/318	707/1614	1933/5122
4719/11150	2764/7808	2524/6578	16489/54142
86/11106	0/7786	311/6604	1937/52298
3657/11198	2330/7856	2529/6612	20516/54242
8805/11214	6693/7856	3563/6612	26400/54318
11/9028	0/6032	1/4530	218/38461
2580/11192	1531/7830	1478/6596	10202/54300



VEP annotated somatic variants

7062/8978	3835/5944	3199/4483	25729/38069
3591/11074	3272/7788	1585/6456	17809/53916
1239/11064	771/7636	1071/6586	12499/51804
4109/11122	3903/7808	2269/6604	22363/54242
31/11194	0/7862	40/6612	1004/53610
3936/11188	3319/7836	2338/6604	13191/54278
5/11124	0/7832	4/6604	155/52246
4330/10678	1985/7458	2595/6352	24289/52636
1087/11150	3431/7776	286/6612	2613/54316
914/11206	771/7858	914/6614	7273/54322
72/5052	1/4804	65/3388	927/32976
68/11194	0/7858	293/6610	1915/54246
5506/11208	1950/7850	3134/6608	28176/54296
3094/11170	1228/7830	1423/6612	11032/54028
2749/8154	3484/5294	1349/3428	10287/28900
5/11040	0/7844	5/6550	197/53406
2880/11168	4502/7846	1545/6602	10746/54140
6460/11178	6675/7858	4257/6598	34586/54104
4767/11200	2088/7862	2720/6614	22052/54342
3846/11212	1943/7838	2219/6614	15365/54344
2660/11118	2835/7690	1670/6612	13228/51250
2572/11144	2846/7772	1738/6582	13706/54136
3499/11212	3325/7844	1348/6610	16541/54326
3512/11208	3327/7854	1348/6612	16581/54340
1051/11110	9/7752	817/6590	10095/53660
2958/11210	42/7866	1653/6614	14136/54296
8241/11194	5180/7838	3293/6580	31869/54294
2006/10124	1804/7410	1583/6130	14028/49010
410/11216	663/7858	365/6614	4495/54342
2526/9872	3435/6386	1267/6046	10360/45058
404/10892	0/7716	202/6102	2133/50794
78/11200	0/7852	116/6602	764/53914
6270/11190	5057/7836	5145/6612	39892/54262

VEP annotated somatic variants

3896/8264 0/132 36/7586 686/8730	552/5922 0/138 0/5546 166/5855	1598/4798 0/0 26/2864 648/4385	16724/46442 1/2066 397/29706 7570/36818
480/4188 3925/7162	1/3782 2355/4898	361/1462 2354/5684	5122/23338 15188/35264
918/11212 713/7192	684/7864 558/5752	677/6614 656/4840	7449/54344 6366/38044
413/5405	0/2134	547/2453	4495/18567
1421/11148 1740/11052 933/2440	1197/7838 2728/7748 1233/2844	1082/6590 1582/6362 297/676	9539/52716 10866/52628 6425/15244
0/292 68/156 23/38	0/322 64/226 4/10	24/1624 432/1178 4/6	6/5012 685/2216 85/184
133/222 7229/11186 2768/9900 16/286	93/314 2168/7806 4/7204 20/322	914/1628 2966/6590 1579/5582 175/766	1424/3212 21507/54148 15708/51062 537/4780
4648/11194	3037/7816	4059/6602	31668/54232
0/626	0/892	0/166	6/5198
5119/11200 0/9940 951/11212 3814/11044 2771/11036	3519/7850 0/7218 1379/7842 1196/7802 5503/7804	2064/6606 0/5628 908/6612 1469/6564 2676/6534	18646/54322 1/50784 11069/54292 13407/53650 12381/53560
9777/11210	6434/7834	5095/6610	44789/54240
5045/11208 8336/11212	2954/7824 4642/7834	2342/6606 3734/6610	19447/54322 34193/54256
1/1778	0/1930	0/506	25/9888
26/11214	25/7866	126/6612	634/54330
67/11108 8659/11208	1/7858 6451/7854	296/6604 4080/6610	1696/54282 32404/54220

VEP annotated somatic variants

9275/11210	6548/7846	5057/6614	37332/54246
50/11184 2399/11212	0/7802 1917/7862	0/6600 166/6612	45/53380 2205/54318
3943/11206 6609/11208	1097/7856 4789/7846	2997/6606 4480/6608	20124/54334 39760/54318
5901/11202 5675/10578 7683/11192 7476/11196 7190/11144 38/11040 3/10772	3321/7858 2980/7080 4129/7850 4071/7826 3134/7822 0/7690 0/7370	1874/6610 1739/6474 4401/6608 3343/6586 3008/6596 166/6546 65/6554	18325/54330 16828/51218 36376/54278 31769/54168 28781/53968 732/52408 87/52622
10/232	1/320	57/1636	283/3992
361/3778 5297/10842 1790/11154 2787/10738 1902/10200	306/3100 5030/7712 1049/7862 2461/7582 916/7322	682/2262 3227/6384 1562/6606 880/6292 833/5668	4603/25386 25028/52946 12295/54314 7718/50100 9013/50108
221/11206	2382/7852	241/6612	2740/54310
13/11100	3/7750	5/6606	383/51290
30/10688 4065/10324 610/2062	0/7288 450/7132 407/2698	11/6484 2470/6368 1013/1922	647/52334 19924/51672 10765/21826
4653/10994 898/1802 6530/11192 16/332 2052/3438 6190/8672 3517/6424 703/11120	5496/7790 1765/2412 2303/7844 9/322 2506/3324 5583/6386 3651/4896 2/7792	1920/6544 1145/2794 4454/6606 2/1688 521/2218 1875/3492 487/2278 369/6598	13745/53576 5805/15870 34240/54292 173/5784 3446/12918 19938/38410 4940/24474 6572/52430

VEP annotated somatic variants

74/8680	0/5762	160/4305	1289/35815
0/11204	0/7858	0/6592	1/53640
7438/11216	3423/7842	3939/6612	31699/54342
863/11206	1467/7850	496/6610	3244/54058
39/144	36/142	222/1208	541/2924
5748/11186	5250/7842	1255/6608	6214/54334
803/11156	394/7804	935/6548	5873/54118
6500/8003	4048/5141	1780/3338	16181/30932
903/11210	1544/7852	257/6612	1652/54312
2379/11116	3041/7778	761/6592	4200/53532
2188/4582	3201/4424	1036/2104	13848/28064
6088/11200	4087/7850	1881/6610	16736/54308
5734/11062	4941/7808	3189/6502	27752/53150
687/4786	120/4846	454/2604	5296/32838
4910/11196	3676/7838	1555/6612	11649/54270
2433/11114	292/7732	1420/6446	9673/51994
5907/11194	4085/7844	1995/6612	14969/54210
4393/11176	2858/7854	2263/6610	19273/54302
6512/11076	6322/7832	3558/6586	26453/53646
5893/11212	4913/7856	3252/6610	28650/54336
29/60	2/4	60/220	53/148
2528/9006	244/6031	1691/4523	15566/38457
82/11200	1/7850	9/6578	656/54068
2810/11216	2678/7854	2022/6612	19721/54334
2252/11114	3815/7742	2705/6580	17774/53978
9118/11210	3086/7834	4765/6580	44315/54320
2613/11098	1474/7780	2148/6576	13299/52434
2744/5944	1267/4414	1821/4560	14498/35232

VEP annotated somatic variants

ExAC_AC_AN_OTH	ExAC_AC_AN_SAS	ExAC_FILTER	MAF
18/682	253/15732	PASS	0.117647059
			0.3125
			0.125
424/694	10145/16406	PASS	0.120879121
			0.107142857
			0.4
351/616	9047/15250	PASS	0.107142857
442/692	10446/16388	PASS	0.15
0/690	0/16408	PASS	0.115044248
			0.277777778
193/682	4754/16366	PASS	0.138888889
0/32	59/1052	PASS	0.266666667
136/684	2378/16396	PASS	0.117647059
554/674	12899/16374	PASS	0.146341463
12/206	426/9286	PASS	0.121212121
			0.107142857
			0.2
			0.173913043
			0.147058824
0/130	0/7470	AC_Adj0_Filter	0.12
20/686	1976/16276	PASS	0.103448276
456/694	11465/16402	PASS	0.151515152
236/656	4476/14946	PASS	0.1875
			0.125
			0.179104478
		PASS	0.109756098
111/672	2341/16230	PASS	0.14893617
			0.132352941
99/318	2501/10272	PASS	0.113636364
327/678	7704/16188	PASS	0.155172414
0/186	12/7592	PASS	0.12962963
386/632	9538/12592	PASS	0.114649682
14/686	423/16006	PASS	0.119565217
99/468	2792/11812	PASS	0.117647059
6/114	629/7472	IRTrancheINDEL97.00to9	0.12
			0.2
152/682	5808/15852	PASS	0.119318182
432/694	8291/16240	PASS	0.25
15/468	231/9928	PASS	0.185185185
			0.117647059
70/174	3309/7746	PASS	0.125
370/690	7986/16394	PASS	0.14084507
			0.125
			0.111111111
100/694	5067/16402	PASS	0.15
			0.15
151/476	2308/12622	PASS	0.133333333
8/692	30/16406	PASS	0.11627907
158/694	2915/16408	PASS	0.105726872
			0.235294118
267/630	6129/15126	PASS	0.107142857
			0.13559322
479/686	12419/16234	PASS	0.176470588
			0.272727273

VEP annotated somatic variants

168/620	1621/11250	PASS	0.227272727
145/678	2494/16212	PASS	0.107692308
			0.160493827
			0.128571429
50/694	1279/16374	PASS	0.107692308
			0.333333333
509/694	13583/16406	PASS	0.181818182
42/108	1461/3874	SRTrancheSNP99.60to99	0.206896552
182/686	4780/16346	PASS	0.108433735
119/602	1701/12254	PASS	0.12962963
125/612	2681/11020	PASS	0.137931034
			0.135135135
147/670	3435/16272	PASS	0.166666667
568/678	14338/16318	PASS	0.1
51/248	1823/8912	PASS	0.2
55/692	413/16330	PASS	0.128205128
32/690	386/16318	PASS	0.214285714
			0.1875
			0.15
			0.191489362
			0.145833333
			0.139534884
0/692	1/16346	PASS	0.125
			0.115384615
			0.23255814
			0.103448276
185/672	2312/16004	PASS	0.133333333
183/652	2207/14654	PASS	0.103448276
			0.173913043
36/690	489/16396	PASS	0.108695652
			0.222222222
44/694	505/16408	PASS	0.208633094
188/686	5318/16154	PASS	0.259259259
76/455	2171/8805	PASS	0.153846154
10/194	26/3118	PASS	0.19047619
			0.114285714
			0.15
			0.75
212/694	4541/16380	PASS	0.102564103
127/692	4085/16400	PASS	0.106382979
			0.197530864
37/692	260/16398	PASS	0.138888889
			0.161290323
64/113	2311/4215	PASS	0.353846154
66/117	2458/4535	PASS	0.211538462
			0.169491525
38/74	2085/4520	PASS	0.148148148
107/662	2179/13632	PASS	0.189655172
			0.202380952
94/430	2176/13136	PASS	0.138211382
39/690	372/16380	PASS	0.113821138
			0.135135135
148/538	2982/11840	PASS	0.134146341
			0.15
47/670	992/14616	PASS	0.166666667

VEP annotated somatic variants

			0.107142857
			0.192307692
136/252	2926/6700	PASS	0.14084507
215/636	3141/12520	PASS	0.125
			0.118644068
			0.333333333
335/524	7696/11394	PASS	0.142857143
			0.166666667
85/604	2828/13524	PASS	0.15625
18/694	170/16332	PASS	0.153846154
			0.106382979
18/596	276/14794	PASS	0.119205298
90/694	1706/16408	PASS	0.102941176
244/694	4622/16404	PASS	0.14516129
63/690	1056/16404	PASS	0.160714286
			0.296296296
103/469	3748/10035	PASS	0.185185185
			0.125
			0.118811881
174/682	3752/16088	PASS	0.111111111
262/694	5299/16386	PASS	0.192307692
194/694	8578/16154	PASS	0.122137405
346/367	6604/6676	PASS	0.35
194/457	4884/9475	PASS	0.166666667
183/690	3615/16178	PASS	0.103448276
262/672	5043/15882	PASS	0.325
526/694	12067/16408	PASS	0.113821138
			0.119047619
			0.666666667
288/694	7765/16394	PASS	0.16
76/664	2645/16254	PASS	0.103448276
			0.105263158
61/410	445/6181	PASS	0.166666667
			0.210526316
			0.103448276
			0.135416667
12/124	354/5124	PASS	0.166666667
			0.166666667
			0.117647059
1/654	14/15458	PASS	0.134615385
			0.16
			0.104166667
			0.121212121
			0.12
84/610	460/14776	PASS	0.1
197/692	3369/16320	PASS	0.12345679
0/8	23/388	PASS	0.173076923
0/0	77/204	PASS	0.173913043
			0.111111111
			0.428571429
83/692	2267/16264	PASS	0.103448276
			0.136363636
			0.214285714
261/350	6686/10684	PASS	0.342857143
184/672	3821/15644	PASS	0.120689655

VEP annotated somatic variants

66/174	2502/7774	PASS	0.103448276 0.18627451 0.1 0.25
43/694	243/16402	PASS	0.166666667
65/174	3335/6948	PASS	0.14893617
96/690	4087/16290	PASS	0.103448276 0.142857143 0.109090909
226/694	4829/16344	PASS	0.140625
348/652	9363/15072	PASS	0.105263158
218/684	6314/16248	PASS	0.130434783
103/464	2854/9935	PASS	0.121621622
76/694	2570/16406	PASS	0.133333333 0.117647059 0.1875
104/660	4168/14234	PASS	0.245901639
128/566	2631/8696	PASS	0.142857143
		PASS	0.1 0.2
398/606	10905/15354	PASS	0.136363636 0.12
43/654	1220/15490	PASS	0.15625
112/694	1994/16406	PASS	0.111111111
50/128	2407/7500	PASS	0.121212121 0.125
146/654	5954/15076	PASS	0.216216216
4/214	26/8898	PASS	0.14159292
3/692	13/16404	PASS	0.308823529 0.142857143
149/690	5642/16390	PASS	0.142857143 0.176470588 0.1875
81/692	1677/16392	PASS	0.133333333 0.136986301 0.155555556 0.142857143 0.157894737
1/106	64/5650	PASS	0.185185185 0.121212121
114/658	3645/15694	PASS	0.146341463
98/660	584/13884	PASS	0.230769231 0.157894737 0.214285714
11/626	81/13068	PASS	0.123076923
150/536	3314/9210	PASS	0.1875
227/688	5725/16402	PASS	0.125 0.142857143 0.166666667 0.176470588 0.121212121
53/670	436/15950	PASS	0.125
9/664	37/15892	PASS	0.104575163
317/664	3904/15256	PASS	0.153846154
200/684	5773/16302	PASS	0.171428571



VEP annotated somatic variants

195/688	5049/16392	PASS	0.12
			0.115384615
0/690	0/16154	PASS	0.137931034
			0.133333333
1/688	2/16330	PASS	0.121212121
			0.107142857
			0.155172414
85/562	552/14036	PASS	0.166666667
138/690	2668/16362	PASS	0.143564356
			0.172413793
109/676	2696/15164	PASS	0.153846154
			0.272727273
74/450	291/12012	PASS	0.110091743
264/694	4666/16390	PASS	0.149253731
209/694	3852/16382	PASS	0.164835165
424/694	9824/16338	PASS	0.111111111
			0.151515152
138/694	4327/16388	PASS	0.108333333
			0.151515152
7/170	93/8502	SRTrancheINDEL97.00to9	0.133333333
			0.136363636
			0.130434783
278/694	7329/16404	PASS	0.123287671
479/692	13105/16404	PASS	0.173469388
0/612	8/10980	PASS	0.136363636
			0.142857143
20/670	45/14846	PASS	0.115789474
			0.111111111
132/694	3193/16398	PASS	0.12195122
			0.111111111
2/124	41/7674	PASS	0.132075472
17/122	506/7548	PASS	0.125
90/242	3100/9196	PASS	0.116883117
			0.214285714
			0.151515152
			0.136363636
			0.235294118
129/690	2058/16128	PASS	0.153846154
			0.18
26/108	1701/6366	PASS	0.179487179
84/248	2537/5782	PASS	0.151515152
49/694	1471/16406	PASS	0.112903226
			0.157894737
			0.1
			0.175
483/692	10823/16378	PASS	0.157894737
433/694	10983/16406	PASS	0.106382979
			0.115384615
			0.173913043
			0.2
449/688	11475/16374	PASS	0.129032258
163/694	4439/16386	PASS	0.123287671
120/686	2863/16018	SRTrancheSNP99.80to9	0.179487179
40/76	930/1808	PASS	0.162162162
			0.208333333

VEP annotated somatic variants

86/694	2692/16396	PASS	0.130952381
			0.112676056
			0.119047619
51/630	1707/11758	PASS	0.179104478
355/630	7196/15244	PASS	0.120879121
202/634	3819/15572	PASS	0.1
			0.105263158
327/369	7630/8486	PASS	0.147058824
25/692	124/16336	PASS	0.133333333
			0.103448276
			0.115384615
			0.115384615
106/564	848/13212	PASS	0.148148148
118/468	2732/10021	PASS	0.230769231
			0.142857143
77/640	2954/14260	PASS	0.147058824
621/694	13507/16298	PASS	0.102564103
			0.5
			0.222222222
222/694	7045/16408	PASS	0.149253731
			0.333333333
149/694	2927/16406	PASS	0.108108108
			0.15
240/694	5349/16342	PASS	0.142857143
123/694	3475/16354	PASS	0.134328358
			0.107142857
5/688	26/16206	PASS	0.145454545
320/690	10857/16358	PASS	0.222222222
165/610	2326/14884	PASS	0.163265306
			0.285714286
			0.242857143
			0.146341463
			0.115384615
260/684	5741/16322	PASS	0.1
100/425	2843/7003	PASS	0.216216216
			0.142857143
345/692	7582/16396	PASS	0.133858268
			0.108108108
247/686	5166/16388	PASS	0.116666667
124/692	2470/16370	PASS	0.145454545
			0.5
			0.142857143
			0.2
45/688	1071/16392	PASS	0.14
44/90	2200/6068	PASS	0.130434783
2/684	401/16248	PASS	0.106382979
			0.176470588
			0.150793651
92/694	2151/16396	PASS	0.107692308
			0.142857143
8/694	33/16376	PASS	0.136363636
			0.263157895
19/26	1198/2144	PASS	0.136363636
270/460	6244/9696	PASS	0.352941176
			0.157894737

VEP annotated somatic variants

329/620	7457/15624	PASS	0.105263158
281/610	5377/10954	PASS	0.162790698
21/100	1389/6616	PASS	0.132075472
256/674	6574/15340	PASS	0.12345679
183/694	3427/16368	PASS	0.11
52/694	3045/16404	PASS	0.171875
37/118	2621/7506	PASS	0.16
7/694	51/16408	PASS	0.108695652
			0.159090909
0/648	0/12634	PASS	0.15625
456/650	11416/15790	PASS	0.134328358
471/690	11699/16406	PASS	0.101123596
105/694	1069/16404	PASS	0.120689655
			0.157894737
			0.107142857
			0.347826087
			0.3
			0.139534884
			0.285714286
175/690	3761/16408	PASS	0.8
296/590	6307/11748	PASS	0.146341463
175/694	4306/16406	PASS	0.145454545
			0.137931034
452/680	9701/16066	PASS	0.106382979
			0.148148148
117/694	2945/16406	PASS	0.140495868
			0.105263158
246/694	3403/16406	PASS	0.125
95/694	2447/16254	PASS	0.168421053
			0.15
195/694	4077/16384	PASS	0.147540984
			0.266666667
92/174	4655/8158	PASS	0.12
80/690	513/16116	PASS	0.176470588
			0.142857143
221/692	8493/16400	PASS	0.147058824
			0.186567164
			0.163636364
0/194	0/8008	PASS	0.119047619
329/580	9139/15006	PASS	0.125
			0.13253012
246/672	6278/16368	PASS	0.196969697
40/118	1982/7506	PASS	0.19047619
			0.142857143
183/662	4014/14540	PASS	0.135135135
0/674	0/16146	PASS	0.12962963
			0.115384615
			0.117647059
			0.222222222
			0.163636364
			0.1
			0.107142857
57/114	2509/4538	PASS	0.1
4/688	54/15902	PASS	0.169230769
			0.2

VEP annotated somatic variants

			0.222222222
27/212	1968/7144	PASS	0.107142857
			0.133333333
54/124	4409/7890	PASS	0.152173913
			0.189189189
38/72	2271/4434	PASS	0.172413793
			0.142857143
			0.13559322
10/172	532/7654	PASS	0.135135135
			0.222222222
			0.2
220/640	4049/12278	PASS	0.2
28/590	463/12290	PASS	0.151515152
27/522	166/12718	PASS	0.142857143
			0.12
			0.14084507
			0.222222222
36/690	1563/16408	PASS	0.147239264
149/588	3583/15168	PASS	0.135338346
484/682	12207/16150	PASS	0.147058824
			0.12
129/662	1572/14400	PASS	0.117647059
33/694	979/16406	PASS	0.104166667
162/413	1122/6221	PASS	0.166666667
140/347	843/4982	PASS	0.159090909
			0.14893617
161/654	4308/13776	PASS	0.1
			0.24
494/694	11270/16406	PASS	0.174603175
104/680	2564/16284	PASS	0.172727273
13/630	140/15036	PASS	0.327272727
			0.125
			0.155172414
			0.162790698
8/662	46/15326	PASS	0.113636364
152/660	4675/14480	PASS	0.109589041
140/382	3562/10332	PASS	0.16
106/482	2733/13734	PASS	0.118181818
63/688	1463/15934	PASS	0.125
			0.25
			0.107142857
		PASS	0.206896552
31/694	652/16408	PASS	0.138613861
148/336	4244/11416	PASS	0.149253731
73/674	864/15738	PASS	0.1
			0.115384615
			0.107142857
333/694	6561/16400	PASS	0.104477612
			0.130434783
			0.136363636
			0.111111111
			0.5
			0.125
			0.132352941
207/684	5188/16236	PASS	0.185185185

VEP annotated somatic variants

155/690	2201/16404	PASS	0.120879121 0.133333333
120/188	5497/7936	PASS	0.112903226
275/462	2393/9984	PASS	0.153846154
105/437	2412/8808	PASS	0.103448276
319/694	5268/16406	PASS	0.15
280/694	4736/16386	PASS	0.14379085
294/694	4941/16406	PASS	0.108527132 0.307692308 0.115384615
243/694	7584/16406	PASS	0.123287671 0.206896552 0.2
424/694	8985/16376	PASS	0.125
305/620	6188/12658	PASS	0.111111111
305/616	6090/12518	PASS	0.111111111
42/440	897/12868	PASS	0.114754098 0.14159292 0.111111111
14/694	267/16404	PASS	0.134615385 0.125 0.19047619
45/652	194/15610	PASS	0.142857143
122/694	3828/16408	PASS	0.14516129
52/694	990/16382	PASS	0.111111111 0.117647059 0.118421053
296/690	7261/16402	PASS	0.244444444
74/666	1124/15948	PASS	0.107142857
319/660	5719/15788	PASS	0.133858268
25/122	1253/7574	PASS	0.214285714 0.153846154
65/138	5269/8052	PASS	0.25 0.183673469 0.169230769
20/694	46/16408	PASS	0.121076233 0.333333333
242/692	4781/16408	PASS	0.128205128 0.142857143
86/584	1929/13974	PASS	0.2
67/467	543/10010	PASS	0.135135135
50/465	507/9976	PASS	0.133333333 0.272727273
149/445	3369/8392	PASS	0.235294118
119/694	1854/16346	PASS	0.142857143
109/670	4176/14860	PASS	0.130434783
315/630	8360/15690	PASS	0.184615385
221/694	6933/16408	PASS	0.109375 0.272727273 0.272727273
331/443	6155/9564	PASS	0.131147541
24/74	601/3574	PASS	0.111111111
83/688	2168/16296	PASS	0.152173913
7/690	60/16374	PASS	0.192307692
62/688	799/16264	PASS	0.111111111

VEP annotated somatic variants

77/136	4507/7404	PASS	0.142857143 0.1 0.115384615 0.444444444 0.177419355
41/138	2336/8090	PASS	0.151515152
572/694	13951/16398	PASS	0.146341463
76/180	3421/7842	PASS	0.14
18/690	206/16398	PASS	0.106382979 0.103448276
503/694	12246/16408	PASS	0.148148148 0.125
503/694	12267/16400	PASS	0.123287671
327/692	6701/16210	PASS	0.108108108
134/694	4065/16400	PASS	0.155172414 0.125786164
102/524	1635/13392	PASS	0.160493827 0.153846154
94/492	1752/14048	PASS	0.140350877 0.107142857
0/352	1/10958	PASS	0.126984127
80/646	1939/15430	PASS	0.155555556 0.114285714
188/690	5114/16402	PASS	0.153061224
226/666	5095/14844	PASS	0.170731707 0.115384615 0.25 0.3
291/694	8784/16386	PASS	0.166666667 0.111111111
203/678	5820/16272	PASS	0.258823529
452/690	10508/16400	PASS	0.103773585 0.182926829
258/694	7360/16406	PASS	0.173469388 0.130434783 0.103448276
8/648	488/14602	PASS	0.109375 0.117647059
30/690	216/16400	PASS	0.115384615
170/694	6046/16402	PASS	0.111111111
8/462	3/10036	PASS	0.233333333 0.183098592 0.128440367 0.375
57/694	3071/16408	PASS	0.185714286
77/144	4272/7930	IRTrancheINDEL95.00to9	0.118644068 0.133333333 0.121212121
510/690	10480/16396	PASS	0.155555556
472/660	9841/15608	PASS	0.103174603
150/694	3457/16408	PASS	0.105769231 0.24 0.15
506/690	9687/16348	PASS	0.158730159 0.3

VEP annotated somatic variants

241/588	3193/10014	PASS	0.285714286
161/690	1480/16400	PASS	0.117647059
254/690	4753/16400	PASS	0.103448276
70/186	2864/7854	PASS	0.115646259
			0.174603175
			0.176470588
			0.116666667
4/684	0/16040	PASS	0.149606299
310/632	9490/15716	PASS	0.191489362
250/674	4963/16326	PASS	0.146067416
81/146	4434/8246	PASS	0.154285714
			0.210526316
		PASS	0.166666667
272/604	5279/11426	PASS	0.285714286
			0.125
393/688	9456/16400	PASS	0.159090909
			0.129411765
14/688	51/16404	PASS	0.104895105
204/610	5167/15440	PASS	0.117021277
176/694	3839/16384	PASS	0.118421053
241/694	3584/16408	PASS	0.175
261/694	4136/16406	PASS	0.128712871
21/694	290/16408	PASS	0.195121951
20/694	260/16408	PASS	0.128440367
			0.107142857
			0.25
			0.347826087
135/682	3000/15548	PASS	0.171428571
137/694	3019/16406	PASS	0.101265823
19/126	599/7850	PASS	0.156028369
73/694	917/16408	PASS	0.126760563
187/694	5731/16406	PASS	0.119402985
			0.219512195
62/658	2866/14440	PASS	0.108108108
			0.206896552
			0.106382979
191/694	4480/16396	PASS	0.155555556
26/124	1552/7244	PASS	0.131578947
59/586	2223/15500	PASS	0.111111111
10/98	69/4554	PASS	0.121212121
5/524	152/10024	PASS	0.2
332/694	5252/16406	PASS	0.12195122
95/694	1439/16404	PASS	0.132352941
227/694	3869/16404	PASS	0.128205128
			0.16
291/586	8393/15910	PASS	0.144578313
441/452	9737/9744	PASS	0.317073171
53/449	295/9015	PASS	0.166666667
58/616	1493/14464	PASS	0.129032258
			0.138888889
			0.125
178/694	3252/16378	PASS	0.126712329
146/688	4486/15976	PASS	0.117647059
35/674	858/16016	PASS	0.125
222/666	6780/16198	PASS	0.111111111

VEP annotated somatic variants

112/672	1997/14982	PASS	0.131578947
61/694	3533/16408	PASS	0.168674699
382/692	9447/16390	PASS	0.134146341
			0.117647059
			0.12
152/402	1549/7631	PASS	0.126984127
257/460	7017/12628	PASS	0.209876543
			0.1875
276/688	7374/16372	PASS	0.154411765
156/652	4807/15528	PASS	0.138888889
9/54	97/982	PASS	0.172413793
227/692	6993/16404	PASS	0.112359551
			0.16
			0.272727273
			0.230769231
			0.115942029
			0.266666667
4/64	348/3470	PASS	0.130434783
417/646	9972/13762	PASS	0.173913043
20/103	710/4534	PASS	0.21875
185/694	2895/16404	PASS	0.109243697
			0.153846154
27/468	684/13340	PASS	0.148514851
			0.25
193/648	3974/14476	PASS	0.147783251
0/28	36/1458	PASS	0.128712871
			0.222222222
54/366	342/6392	PASS	0.119047619
			0.146341463
377/636	6815/13718	PASS	0.106557377
298/692	8136/16380	PASS	0.101694915
			0.272727273
			0.256410256
507/644	11377/13080	PASS	0.189189189
			0.173913043
38/688	182/16100	PASS	0.215189873
246/346	5854/7553	PASS	0.37037037
22/648	251/14978	PASS	0.147826087
38/674	840/14778	PASS	0.111111111
38/692	851/16392	PASS	0.101694915
277/688	5907/16396	PASS	0.134831461
			0.375
			0.142857143
			0.136363636
65/146	4684/8202	PASS	0.117647059
86/694	1406/16224	PASS	0.142857143
			0.333333333
87/694	1281/16408	PASS	0.158536585
0/694	0/16408	PASS	0.108108108
7/692	562/16334	PASS	0.114285714
190/462	6358/13742	PASS	0.106666667
427/694	11048/16406	PASS	0.1
			0.214285714
			0.136363636
			0.36



VEP annotated somatic variants

265/694	6119/16380	PASS	0.158415842 0.136363636
96/668	1169/15446	PASS	0.163043478
299/692	8967/16402	PASS	0.120689655 0.128205128
33/130	1649/7894	PASS	0.128205128 0.21875
426/694	9302/16402	PASS	0.142857143
115/646	2645/15766	PASS	0.105263158 0.142857143
17/316	487/9902	PASS	0.108695652
87/678	1378/16340	PASS	0.165413534
58/560	354/14458	PASS	0.12295082 0.230769231
170/678	3836/15482	PASS	0.119617225
260/460	4858/9941	PASS	0.25
0/452	0/9460	PASS	0.170731707
177/578	2350/9282	PASS	0.180555556 0.176470588
57/170	3019/7600	PASS	0.153846154 0.153846154 0.161290323
536/694	10955/16398	PASS	0.114942529
284/694	7807/16400	PASS	0.166666667 0.1875 0.32
153/694	3515/16406	PASS	0.139784946 0.12244898 0.119047619
204/464	3695/10011	PASS	0.176470588
151/468	1449/10005	PASS	0.155844156 0.12 0.151515152
133/694	5310/16408	PASS	0.12371134
141/648	5738/13862	PASS	0.111111111
42/680	364/15960	PASS	0.131147541 0.3
277/694	5058/16390	PASS	0.114942529
294/692	7915/16350	PASS	0.125
5/694	31/16408	PASS	0.113636364 0.103448276 0.164835165 0.140625
109/568	1926/14248	PASS	0.149122807 0.333333333
192/688	4299/16384	PASS	0.112359551
199/692	4259/16406	PASS	0.333333333
21/520	192/13796	PASS	0.137931034 0.111111111 0.4 0.1875
197/692	4482/16404	PASS	0.166666667 0.11627907
6/682	59/16132	PASS	0.136363636 0.121794872

VEP annotated somatic variants

			0.315789474
438/694	8896/16404	PASS	0.105263158
130/686	3499/16394	PASS	0.173913043
158/694	2721/16404	PASS	0.136
			0.333333333
170/694	1858/16408	PASS	0.218181818
			0.214285714
405/438	8315/8434	PASS	0.260869565
6/692	73/16384	PASS	0.143939394
			0.222222222
			0.117647059
12/678	68/16040	PASS	0.113475177
90/594	353/9828	PASS	0.125
370/686	7817/16348	PASS	0.155172414
			0.111111111
			0.2
			0.210526316
471/618	10369/14706	PASS	0.154761905
81/688	1946/15848	PASS	0.333333333
171/584	2870/12614	PASS	0.204081633
175/692	3069/16274	PASS	0.103092784
178/438	1988/5620	PASS	0.15
			0.109090909
			0.192982456
216/694	6612/16282	PASS	0.153333333
263/694	6648/16400	PASS	0.121212121
284/694	6708/16404	PASS	0.112676056
229/652	5264/15328	PASS	0.117647059
			0.1
90/436	2794/11596	PASS	0.102040816
29/114	1609/7528	PASS	0.136363636
43/680	652/15580	PASS	0.133333333
			0.133333333
32/658	1677/14112	PASS	0.285714286
			0.1875
2/656	47/15568	PASS	0.150943396
			0.2
58/444	1938/9547	PASS	0.236363636
268/686	5061/16298	PASS	0.217391304
233/690	4933/16406	PASS	0.127272727
232/680	4819/16236	PASS	0.12244898
13/690	89/16292	PASS	0.1
			0.230769231
85/688	1908/16264	PASS	0.12
			0.153846154
1/672	1/15900	PASS	0.137614679
			0.142857143
6/558	415/13698	PASS	0.105263158
127/690	5012/16402	PASS	0.163934426
			0.103448276
			0.136363636
			0.103448276
			0.142857143
61/600	1906/12586	PASS	0.151515152
271/688	6780/16314	PASS	0.111111111

VEP annotated somatic variants

134/694	2381/16408	PASS	0.153846154
0/664	37/15530	SRTrancheSNP99.60to99	0.179487179
			0.130434783
			0.130434783
			0.104651163
42/60	2692/3676	PASS	0.163120567
537/690	12968/16398	PASS	0.148148148
104/184	3699/7896	PASS	0.186046512
			0.111111111
			0.155555556
			0.111111111
143/524	2142/8454	PASS	0.101351351
			0.3
513/678	12029/15732	PASS	0.113043478
478/664	11499/15342	PASS	0.136363636
509/678	12616/16392	PASS	0.173333333
27/690	595/16322	PASS	0.126213592
			0.210526316
			0.104166667
			0.134615385
541/694	14263/16404	PASS	0.126760563
424/686	10770/16294	PASS	0.193548387
			0.181818182
			0.139534884
174/428	5014/12650	PASS	0.2
283/694	6623/16406	PASS	0.13253012
			0.157894737
			1
			0.14
			0.166666667
457/648	10568/16184	PASS	0.11827957
177/642	4248/14846	PASS	0.109589041
			0.115384615
17/60	1452/4036	PASS	0.113924051
			0.2
143/554	2748/9026	PASS	0.149253731
			0.142857143
			0.1875
170/326	4050/7314	PASS	0.203703704
0/68	1/4072	PASS	0.125
123/552	4496/13776	PASS	0.139344262
170/688	2662/16180	PASS	0.129032258
			0.115384615
369/682	8215/16222	PASS	0.106060606
41/522	491/11282	PASS	0.150943396
0/694	0/16400	PASS	0.208053691
			0.15625
261/690	8292/16260	PASS	0.166666667
			0.166666667
251/692	6856/16146	PASS	0.122641509
15/684	58/16334	PASS	0.131578947
			0.130434783
67/694	1567/16404	PASS	0.176470588
12/512	137/12462	PASS	0.119047619
			0.117647059

VEP annotated somatic variants

			0.159090909
			0.15
			0.111111111
			0.13559322
			0.130434783
139/170	6015/7608	PASS	0.126696833
272/568	3313/8808	PASS	0.333333333
29/484	1159/10048	PASS	0.194444444
518/692	11297/16270	PASS	0.161764706
			0.169491525
199/469	5574/10027	PASS	0.102189781
			0.136363636
73/408	1441/6358	PASS	0.12962963
321/467	7013/10040	PASS	0.2
			0.12
			0.166666667
4/12	64/296	PASS	0.2
267/654	4991/13828	PASS	0.150684932
172/692	2080/16320	PASS	0.109756098
337/694	8321/16406	PASS	0.12849162
			0.129533679
400/445	8197/9594	PASS	0.134146341
			0.342105263
7/570	39/14004	PASS	0.147540984
			0.12
			0.106382979
			0.127388535
215/694	7217/16408	PASS	0.119565217
134/416	1529/7106	PASS	0.142857143
168/482	3917/8450	PASS	0.103092784
34/694	964/16374	PASS	0.222222222
282/692	6125/16374	PASS	0.102941176
117/648	2806/15210	PASS	0.147727273
			0.153846154
			0.153846154
0/469	1/10047	PASS	0.114285714
			0.114285714
428/686	8889/16320	PASS	0.152777778
			0.108695652
2/694	106/16404	PASS	0.112903226
			0.176470588
1/358	0/11250	PASS	0.148148148
			0.14084507
			0.137254902
65/674	1203/14780	PASS	0.166666667
107/406	2035/10904	PASS	0.225
73/662	1620/16118	PASS	0.147651007
174/694	4046/16280	PASS	0.157894737
			0.125
115/692	3598/16408	PASS	0.122807018
103/692	2446/16282	PASS	0.139534884
77/174	2952/7878	PASS	0.222222222
			0.151515152
291/676	5717/14962	PASS	0.106666667
			0.162162162

VEP annotated somatic variants

1/16	21/518	PASS	0.154761905
			0.125714286
295/688	7429/15352	PASS	0.318181818
			0.12
163/668	4698/15984	PASS	0.11038961
230/682	5404/16026	PASS	0.178082192
9/144	322/7770	PASS	0.108108108
3/648	71/15806	PASS	0.139072848
			0.3125
238/466	7162/9994	PASS	0.295454545
57/118	3809/7486	PASS	0.103448276
495/694	13341/16404	PASS	0.104166667
118/212	6382/10130	PASS	0.12
277/688	8596/16408	PASS	0.196078431
584/690	15154/16408	PASS	0.175824176
252/636	8457/15826	PASS	0.15862069
271/692	6249/16304	PASS	0.106666667
			0.176470588
12/680	110/16332	PASS	0.191709845
			0.13559322
172/498	2141/11652	PASS	0.205882353
			0.125
			0.135135135
142/694	2663/16394	PASS	0.184615385
266/694	5319/16408	PASS	0.184210526
453/694	11860/16404	PASS	0.126126126
270/684	5178/16336	PASS	0.150943396
406/682	10289/16286	PASS	0.116883117
			0.133333333
210/688	7376/16366	PASS	0.127659574
221/688	4994/16402	PASS	0.105263158
22/166	805/7558	PASS	0.148148148
			0.121621622
379/690	10202/16406	PASS	0.143939394
			0.117647059
273/448	6127/9641	PASS	0.133333333
70/130	3875/7772	PASS	0.116129032
263/364	8154/11394	PASS	0.19047619
158/694	3597/16408	PASS	0.1625
151/686	1576/16382	PASS	0.105263158
81/694	696/16408	PASS	0.105263158
			0.3
186/580	2877/11836	PASS	0.169230769
0/606	0/15370	PASS	0.142857143
435/692	7821/16400	PASS	0.217391304
			0.136363636
			0.1
			0.222222222
			0.109090909
			0.12
			0.118644068
285/544	4289/9110	PASS	0.15
8/694	146/16406	PASS	0.161290323
			0.127272727
			0.142857143

VEP annotated somatic variants

92/686	2850/16402	PASS	0.107142857
			0.111111111
			0.130434783
35/682	685/16386	PASS	0.136363636
305/692	7495/16400	PASS	0.133333333
338/694	9304/16402	PASS	0.118811881
227/496	7630/14102	PASS	0.171875
241/640	6542/12412	PASS	0.137931034
244/612	8035/15252	PASS	0.12
256/672	8182/16194	PASS	0.12
32/660	903/15694	PASS	0.12195122
6/670	11/14798	PASS	0.222222222
			0.136363636
5/690	63/15944	PASS	0.18
281/690	6063/16282	PASS	0.109589041
337/622	4856/11652	PASS	0.266666667
95/694	1733/16408	PASS	0.112676056
			0.230769231
513/664	9930/15572	PASS	0.130434783
			0.101265823
36/136	2557/7904	PASS	0.115384615
257/692	4891/16394	PASS	0.15625
160/606	3436/12062	PASS	0.115384615
6/690	206/16402	PASS	0.235294118
4/684	65/15572	PASS	0.108695652
			0.15
415/692	8430/15824	PASS	0.153846154
40/440	1222/14174	PASS	0.271186441
61/178	3161/7390	PASS	0.161290323
			0.131578947
			0.157894737
			0.12
305/572	6252/13660	PASS	0.2
			0.1
			0.135416667
0/56	10/3318	PASS	0.118421053
5/172	11/4234	PASS	0.183908046
5/86	25/4717	PASS	0.294117647
278/534	2800/7574	PASS	0.12
			0.269230769
136/684	5031/16142	PASS	0.184782609
10/308	124/9630	PASS	0.115384615
19/688	449/16134	PASS	0.133333333
231/682	5724/16222	PASS	0.103896104
			0.127906977
77/692	2720/16360	PASS	0.116751269
8/452	31/12168	PASS	0.125
			0.228571429
494/694	13496/16408	PASS	0.116071429
			0.107142857
3/18	217/690	PASS	0.266666667
			0.185185185
112/690	2569/16404	PASS	0.135135135
38/386	1348/12002	PASS	0.131147541
179/694	6545/16406	PASS	0.136363636

VEP annotated somatic variants

			0.117647059
			0.208333333
			0.166666667
			0.142857143
47/694	1557/16406	PASS	0.12
433/692	10430/16386	PASS	0.1
15/688	146/16286	PASS	0.12195122
17/118	1481/7460	PASS	0.128205128
102/694	2299/16406	PASS	0.189189189
			0.15
14/184	996/7898	PASS	0.1
			0.121212121
148/666	3625/16136	PASS	0.214285714
281/694	6603/16404	PASS	0.144144144
			0.105263158
			0.166666667
112/684	1771/16152	PASS	0.12345679
			0.275862069
356/692	10481/16400	PASS	0.152173913
323/443	5778/8114	PASS	0.136363636
			0.238095238
			0.14084507
			0.138888889
106/364	2383/8638	PASS	0.113636364
			0.266666667
22/676	893/15886	PASS	0.114942529
162/550	6508/14874	PASS	0.161764706
			0.285714286
			0.230769231
437/694	8929/16406	PASS	0.142857143
40/694	625/16406	PASS	0.109090909
39/678	586/15776	PASS	0.113636364
25/338	255/4694	PASS	0.125
178/694	3824/16392	PASS	0.109756098
198/692	4414/16402	PASS	0.188405797
543/692	11918/16404	PASS	0.175
23/692	180/16394	PASS	0.129032258
107/654	1630/15508	PASS	0.136363636
			0.12
			0.118644068
110/612	2609/11204	PASS	0.140350877
139/616	3118/11708	PASS	0.114427861
			0.125
29/634	494/15044	PASS	0.107142857
205/694	6026/16404	PASS	0.118644068
83/457	3257/9947	PASS	0.121495327
122/694	1560/16408	PASS	0.13253012
			0.113207547
35/640	237/14512	PASS	0.1
110/267	2534/6576	PASS	0.194444444
10/684	26/16292	PASS	0.128571429
			0.2
76/232	4265/9222	PASS	0.184210526
245/694	4011/16316	PASS	0.104294479
		PASS	0.166666667

VEP annotated somatic variants

123/672	3100/16264	PASS	0.112359551
89/678	2710/16056	PASS	0.153846154
8/694	52/16406	PASS	0.16
			0.133333333
72/694	992/16398	PASS	0.126582278
122/686	1954/16210	PASS	0.176470588
0/684	0/15890	PASS	0.133333333
			0.16
315/694	7924/16334	PASS	0.223880597
4/692	0/16370	PASS	0.159663866
310/638	9069/16020	PASS	0.172839506
			0.194444444
191/674	5650/15410	PASS	0.113207547
101/694	2168/16404	PASS	0.141414141
			0.333333333
232/666	5278/16190	PASS	0.222222222
232/678	5153/14952	PASS	0.142857143
			0.114285714
100/232	2890/6672	PASS	0.148648649
235/678	5880/15566	PASS	0.102564103
27/80	1429/5300	PASS	0.170212766
168/690	3157/16396	PASS	0.104166667
			0.157894737
100/694	3568/16406	PASS	0.113821138
108/694	3629/16408	PASS	0.100671141
94/308	1904/10154	PASS	0.139534884
			0.125
			0.269230769
			0.166666667
			0.125
			0.15625
150/664	3718/16320	PASS	0.107142857
268/694	4644/16372	PASS	0.105263158
235/690	2849/16094	PASS	0.222222222
			0.125
			0.176470588
			0.224137931
128/690	1692/16408	PASS	0.12195122
223/646	5248/13178	PASS	0.147540984
			0.15
130/690	1822/16338	PASS	0.127659574
54/694	1240/16408	PASS	0.102272727
185/690	2585/16372	PASS	0.102040816
			0.230769231
146/292	6010/10752	PASS	0.115384615
273/666	6255/13750	PASS	0.146341463
82/457	1545/10008	PASS	0.2375
190/404	4981/9678	PASS	0.115384615
			0.125
			0.166666667
			0.115384615
102/622	2244/12210	PASS	0.138461538
			0.142857143
47/690	645/16406	PASS	0.210526316
317/690	6971/16406	PASS	0.133333333



VEP annotated somatic variants

179/688	3398/16338	PASS	0.130434783
205/690	4343/16406	PASS	0.127659574
438/654	10680/16304	PASS	0.210526316
289/690	5906/16404	PASS	0.136986301
264/692	5660/16408	PASS	0.125
41/100	2596/6244	PASS	0.144508671
271/688	5890/16316	PASS	0.124352332
265/614	5832/15862	PASS	0.125
287/684	6048/16342	PASS	0.217877095
110/378	3073/10206	PASS	0.12962963
199/324	4712/7866	PASS	0.127388535
43/118	3422/7508	PASS	0.157894737
22/94	1876/5496	¡RTrancheINDEL96.00to9	0.25
167/686	2562/16368	PASS	0.157894737
209/688	4514/16156	PASS	0.126760563
222/676	7644/15756	PASS	0.113043478
24/118	1154/7478	PASS	0.111111111
10/22	308/632	PASS	0.3125
40/208	528/9170	PASS	0.151515152
95/530	1289/13338	PASS	0.142857143
72/694	1966/16400	PASS	0.12345679
93/694	2361/16406	PASS	0.149253731
395/652	9375/16156	PASS	0.100478469
266/466	7480/13550	PASS	0.25
249/692	5941/16404	PASS	0.214285714
157/546	2873/9040	PASS	0.136363636
129/670	3383/15730	¡RTrancheINDEL99.00to9	0.125
292/467	7328/9970	PASS	0.25
255/684	5917/16308	PASS	0.130434783
239/416	5168/8376	PASS	0.114285714
258/460	5800/9961	PASS	0.272727273
258/459	5800/9961	PASS	0.272727273
45/136	3225/8028	PASS	0.238095238
293/692	7500/16266	PASS	0.15
240/626	3733/12338	PASS	0.103448276
182/626	2984/11588	PASS	0.272727273
88/154	1865/4904	PASS	0.228571429
8/84	67/2734	PASS	0.228571429
2/6	45/166	PASS	0.228571429
			0.208333333
			0.208333333
			0.162162162
			0.161290323
			0.125
			0.144927536
			0.121212121
			0.128787879
			0.16
			0.122807018
			0.173913043
			0.111111111
			0.142857143

VEP annotated somatic variants

				0.129032258
57/646	2176/13320	SRTrancheSNP99.60to99		0.127659574
				0.1625
41/686	728/16234	PASS		0.107438017
146/676	3381/16086	PASS		0.272727273
				0.114285714
230/546	3620/14172	PASS		0.111111111
				0.206896552
47/646	453/15222	PASS		0.104166667
				0.333333333
375/680	9326/16282	PASS		0.266666667
				0.166666667
146/690	2412/16402	PASS		0.114551084
				0.25
4/690	36/16376	PASS		0.333333333
				0.176470588
5/694	37/16408	PASS		0.158536585
4/544	33/10648	PASS		0.132352941
				0.115384615
172/334	5071/10976	PASS		0.153846154
152/314	6368/11000	PASS		0.118421053
142/688	4799/16118	PASS		0.203389831
163/682	3462/16362	PASS		0.126760563
433/454	9686/9786	PASS		0.212765957
				0.153846154
302/690	9505/16404	PASS		0.213483146
				0.147651007
217/686	3800/16046	PASS		0.12
146/668	5321/16364	PASS		0.179245283
252/694	3260/16394	PASS		0.151785714
				0.2
170/210	6916/9308	PASS		0.147058824
182/666	5076/16154	PASS		0.127118644
158/218	7349/9452	PASS		0.111111111
0/120	1/7338	PASS		0.125
0/377	0/8139	PASS		0.137931034
324/688	8452/16050	PASS		0.127272727
				0.15
				0.170212766
250/694	6049/16404	PASS		0.161764706
				0.109090909
				0.357142857
86/692	1242/16336	PASS		0.111111111
107/644	2750/13598	PASS		0.152173913
399/690	7875/16394	PASS		0.103448276
				0.186440678
391/692	9168/16402	PASS		0.107526882
195/692	4482/16314	PASS		0.115384615
354/694	7097/16406	PASS		0.162162162
				0.135416667
304/658	6372/15170	PASS		0.129032258
444/680	8979/14936	PASS		0.120689655
106/148	5342/8254	PASS		0.12
				0.108108108
				0.12037037

VEP annotated somatic variants

111/306	4485/9536	PASS	0.125 0.178571429 0.102564103 0.157894737 0.135135135
209/406	5275/10878	PASS	0.115384615
368/690	7255/15924	PASS	0.116883117 0.104477612
304/694	8227/16404	PASS	0.135135135
7/586	69/14596	PASS	0.101694915 0.117647059 0.137254902
290/640	7731/14274	PASS	0.108108108 0.115384615
239/694	5606/16378	PASS	0.153846154
42/118	1794/7392	PASS	0.169354839
161/644	3784/15876	PASS	0.25 0.111111111 0.111111111
292/686	6120/16342	PASS	0.166666667
289/456	3673/9631	PASS	0.142857143 0.16 0.24
13/30	235/690	PASS	0.103174603
133/304	3336/10086	PASS	0.203389831
429/682	10795/16036	PASS	0.12
445/694	11076/16378	PASS	0.118181818
177/624	3511/11706	PASS	0.114285714
115/690	1652/16152	PASS	0.129411765
561/694	11930/16406	PASS	0.155555556
251/616	7459/13910	PASS	0.109375
69/666	1999/16206	PASS	0.214285714
406/688	7864/15980	PASS	0.105882353
277/694	8872/16404	PASS	0.111111111
101/686	3625/16294	PASS	0.148148148
0/688	44/16390	PASS	0.123076923
0/344	1/11008	PASS	0.105263158
368/664	7441/15554	PASS	0.25 0.151515152 0.12987013 0.5 0.12
345/690	7549/16404	PASS	0.106382979
299/692	5439/16214	PASS	0.111111111
199/694	5408/16406	PASS	0.108695652 0.115384615 0.128571429 0.152542373 0.130434783
55/144	2912/7692	PASS	0.14516129 0.137931034
273/690	5582/16322	PASS	0.130434783
159/180	7342/7896	PASS	0.18627451 0.195652174
161/184	6685/7920	PASS	0.125

VEP annotated somatic variants

346/392	9247/10908	PASS	0.176470588 0.157894737 0.153846154
1/312	0/6520	PASS	0.134615385
1/180	62/7902	PASS	0.180851064
41/166	1683/7358	PASS	0.27027027
77/694	702/16406	PASS	0.101694915
209/662	5735/15320	PASS	0.102564103 1 0.230769231
149/694	3701/16378	PASS	0.146788991
150/690	3677/16222	PASS	0.130434783 0.157894737
30/690	304/16318	PASS	0.102040816
73/686	1428/15974	PASS	0.155555556 0.12195122
349/690	7231/16376	PASS	0.129032258
326/656	6000/13340	PASS	0.106382979 0.2 0.191489362 0.129032258 0.12195122 0.133333333 0.117647059 0.142857143
69/616	575/14658	PASS	0.109947644 0.12962963
2/636	24/15640	PASS	0.13559322
237/678	5067/15988	PASS	0.181818182
23/40	1682/2592	PASS	0.142857143 0.111111111
5/126	163/6218	PASS	0.102564103
159/644	2552/12980	PASS	0.195121951
148/682	2166/15348	PASS	0.144859813 0.257142857
75/694	2180/16370	PASS	0.126213592
405/688	10818/16366	PASS	0.111111111 0.125786164 0.162162162 0.125
45/122	2395/7604	PASS	0.106761566 0.428571429
60/686	576/15836	PASS	0.164383562
0/120	0/7090	PASS	0.126213592
129/628	1455/11876	PASS	0.244186047 0.130434783
134/668	2556/15930	PASS	0.153846154
65/113	3307/5314	PASS	0.172413793
102/650	3971/16250	PASS	0.210526316
98/452	3732/12862	PASS	0.125
176/310	7302/11522	PASS	0.230769231 0.166666667
557/694	13879/16408	PASS	0.132352941 0.2
12/690	1723/16340	PASS	0.176470588

VEP annotated somatic variants

			0.111111111
			0.178571429
			0.183333333
			0.103448276
			0.131578947
258/670	7894/15726	PASS	0.173076923
547/694	14479/16214	PASS	0.275
			0.5
			0.101265823
50/344	1163/10130	PASS	0.125
			0.107142857
183/694	2805/16394	PASS	0.202614379
			0.222222222
147/694	2054/16396	PASS	0.138888889
			0.217391304
180/688	6630/16402	PASS	0.1875
			0.12
75/678	1755/16304	PASS	0.177777778
345/692	7544/16228	PASS	0.123287671
71/694	1497/16404	PASS	0.107142857
184/286	5385/7482	PASS	0.153846154
			0.4
			0.111111111
			0.375
			0.121212121
161/694	3292/16408	PASS	0.142857143
			0.113636364
9/690	7/16142	PASS	0.119047619
			0.25
133/276	4433/9558	PASS	0.129411765
364/694	9080/16408	PASS	0.150684932
54/670	2392/14974	PASS	0.1
66/469	1635/10047	PASS	0.15
			0.107142857
			0.2
			0.117647059
23/642	194/15780	PASS	0.102564103
35/394	1911/12514	PASS	0.142857143
			0.107142857
			0.105263158
3/694	68/16404	PASS	0.136363636
106/630	1590/15040	PASS	0.137931034
210/614	4652/15512	PASS	0.1375
120/280	3691/9954	PASS	0.104761905
			0.1875
15/618	52/15106	PASS	0.186046512
			0.176470588
513/644	10739/13898	PASS	0.109489051
			0.5
189/692	4883/16190	PASS	0.144
			0.130434783
120/690	1821/16126	PASS	0.15
			0.157894737
			0.136363636
			0.428571429

VEP annotated somatic variants

117/652	3617/14542	PASS	0.210526316
220/328	7126/11298	PASS	0.111111111
179/320	4978/10996	PASS	0.14893617
			0.103448276
1/94	7/4982	PASS	0.166666667
164/694	7484/16308	PASS	0.128
			0.127272727
			0.173913043
455/686	10264/16382	PASS	0.166666667
			0.125
			0.129032258
176/692	4210/16396	PASS	0.127272727
382/694	9558/16408	PASS	0.158415842
			0.454545455
299/690	7791/16338	PASS	0.131578947
149/678	5432/16074	PASS	0.128205128
			0.185185185
74/162	2515/6466	PASS	0.145833333
			0.230769231
32/684	669/16292	PASS	0.150943396
25/684	396/16292	PASS	0.118644068
50/694	1550/16398	PASS	0.107438017
88/688	1996/16302	PASS	0.103092784
191/694	4394/16406	PASS	0.2625
109/694	3482/16408	PASS	0.134615385
			0.1
141/694	2241/16404	PASS	0.207920792
			0.111111111
			0.179487179
14/692	363/16406	PASS	0.112359551
34/118	2236/7506	PASS	0.210084034
264/680	4831/15922	PASS	0.2
357/694	12596/16402	PASS	0.121621622
			0.12
7/580	8/14612	PASS	0.11965812
180/658	2403/15912	PASS	0.173913043
232/694	6653/16324	PASS	0.149606299
			0.166666667
64/680	2400/16378	PASS	0.133333333
62/357	368/7760	PASS	0.205128205
			0.233333333
			0.133333333
			0.1875
67/178	2543/7876	PASS	0.126760563
			0.115384615
			0.4
206/692	5210/16386	PASS	0.148148148
			0.117647059
			0.2
17/616	57/11068	PASS	0.12371134
260/694	6140/16354	PASS	0.142857143
368/692	9517/16400	PASS	0.139240506
2/469	88/10040	PASS	0.184210526
139/692	3327/16404	PASS	0.117647059
			0.133333333

VEP annotated somatic variants

337/464	5789/10021	PASS	0.166666667
215/684	7155/16348	PASS	0.192982456
127/596	1264/10224	PASS	0.227272727
			0.176470588
305/682	7806/16396	PASS	0.124087591
			0.285714286
			0.136363636
			0.176470588
4/670	72/14540	PASS	0.14893617
204/694	4245/16404	PASS	0.151111111
			0.1875
1/622	10/11254	PASS	0.238095238
			0.131578947
			0.15
326/672	7687/16242	PASS	0.229508197
			0.212121212
			0.1875
50/694	1222/16392	PASS	0.137096774
			0.210526316
			0.163265306
93/694	3829/16408	PASS	0.12371134
7/380	380/11236	PASS	0.103773585
			0.2
14/694	197/16396	PASS	0.147058824
			0.104166667
311/694	10842/16334	PASS	0.160714286
134/684	1881/15584	PASS	0.105263158
147/368	5401/8097	PASS	0.14516129
			0.166666667
2/686	18/16252	PASS	0.181818182
181/694	3956/16302	PASS	0.14
466/688	10718/16214	PASS	0.222222222
268/694	6421/16408	PASS	0.14
207/690	4440/16404	PASS	0.26
172/576	3690/8894	PASS	0.171428571
201/694	6566/16342	PASS	0.125
212/694	7182/16408	PASS	0.168831169
222/694	7425/16406	PASS	0.142857143
119/680	3334/15572	PASS	0.112676056
176/694	3977/16386	PASS	0.210526316
			0.222222222
			0.1875
436/694	10074/16406	PASS	0.12962963
			0.166666667
			0.107142857
			0.119402985
187/614	4533/15552	PASS	0.1
44/694	531/16408	PASS	0.1625
			0.461538462
			0.173913043
167/620	4318/14802	PASS	0.136363636
			0.129032258
11/632	107/14502	PASS	0.102564103
9/680	32/15560	PASS	0.1875
524/692	12986/16388	PASS	0.161764706

VEP annotated somatic variants

185/526	4818/12656	PASS	0.102941176
0/94	3/5882	PASS	0.137931034
3/404	1/11848	PASS	0.127272727
97/438	2278/8918	PASS	0.157894737
			0.135135135
			0.225806452
			0.126126126
41/288	267/9454	PASS	0.133333333
234/540	5776/13948	PASS	0.12
			0.125
85/694	1676/16406	PASS	0.137254902
71/488	1452/13034	PASS	0.166666667
			0.15
			0.193548387
45/249	251/5380	PASS	0.184210526
			0.133333333
101/684	4540/16132	PASS	0.146428571
159/622	3142/12780	PASS	0.235294118
71/194	3000/8082	PASS	0.140186916
			0.214285714
			0.230769231
1/178	2/7890	PASS	0.111111111
48/122	2000/5574	PASS	0.318181818
0/0	88/164	PASS	0.129032258
			0.115384615
100/170	4474/7652	PASS	0.109489051
284/692	6351/16382	PASS	0.102941176
208/622	4089/14968	PASS	0.170212766
17/146	283/7880	PASS	0.125
			0.109589041
			0.127272727
			0.14893617
415/692	10715/16388	PASS	0.195121951
			0.173913043
			0.272727273
0/104	0/5064	PASS	0.189873418
			0.145833333
			0.117647059
279/692	6180/16396	PASS	0.123188406
0/624	4/15026	PASS	0.25
114/690	2154/16388	PASS	0.133333333
158/682	3591/15380	PASS	0.116959064
199/676	4352/16242	PASS	0.130434783
			0.142857143
540/690	13524/16400	PASS	0.139240506
			0.333333333
261/690	5890/16406	PASS	0.137931034
473/688	11067/16144	PASS	0.109756098
			0.157894737
0/108	2/3330	PASS	0.172413793
			0.129032258
6/694	247/16408	PASS	0.186666667
			0.3
17/694	229/16408	PASS	0.119047619
459/694	11468/16406	PASS	0.101265823



VEP annotated somatic variants

			0.103448276
			0.181818182
			0.121621622
			0.11627907
			0.152173913
			0.230769231
486/694	12691/16366	PASS	0.1
			0.272727273
			0.19047619
			0.5
			0.125
			0.127272727
3/688	3/16140	PASS	0.25
36/694	1473/16406	PASS	0.220338983
			0.333333333
241/694	5881/16408	PASS	0.1625
428/692	9130/16408	PASS	0.134831461
			0.103448276
			0.176470588
231/694	5220/16402	PASS	0.142857143
223/666	5053/15978	PASS	0.125
448/694	9685/16382	PASS	0.120879121
407/692	9292/16380	PASS	0.101851852
366/690	8350/16366	PASS	0.146341463
10/678	106/16200	PASS	0.103448276
1/678	0/16170	PASS	0.176470588
			0.205128205
			0.285714286
8/148	608/4870	IRTrancheINDEL99.00to9	0.103448276
			0.106382979
			0.147540984
77/344	2134/12280	PASS	0.116666667
315/672	5471/16058	PASS	0.119047619
144/694	3749/16402	PASS	0.196078431
113/624	3068/12766	PASS	0.139534884
123/606	2904/14250	PASS	0.12
			0.5
54/694	1550/16408	PASS	0.14953271
			0.233333333
0/576	23/9022	PASS	0.14893617
			0.157894737
9/682	42/16074	PASS	0.225806452
253/654	6427/15486	PASS	0.142857143
123/272	4220/10148	PASS	0.244897959
			0.155555556
			0.103448276
192/678	5044/16312	PASS	0.178571429
129/300	4061/10400	PASS	0.145299145
384/694	6253/16408	PASS	0.114503817
2/184	104/7886	PASS	0.24
64/162	1122/2524	PASS	0.476190476
248/428	7353/11838	PASS	0.150684932
76/244	1434/3928	PASS	0.130434783
57/620	749/11462	PASS	0.112359551
			0.238095238

VEP annotated somatic variants

9/432	130/9440	PASS	0.228915663
0/672	0/14694	PASS	0.116959064
367/694	9960/16408	PASS	0.158415842
			0.166666667
51/690	310/15924	PASS	0.115942029
30/146	995/7612	PASS	0.106557377
			0.1
			0.159090909
			0.107142857
127/692	1897/16404	PASS	0.209302326
83/690	1681/16370	PASS	0.182692308
			0.318181818
211/363	5562/8010	PASS	0.184782609
21/694	923/16402	PASS	0.104
65/688	2126/16394	PASS	0.169117647
			0.157894737
178/324	5202/10964	PASS	0.119266055
			0.25
278/694	9843/16396	PASS	0.147540984
			0.133333333
			0.135135135
364/664	8409/14594	PASS	0.113636364
68/370	2696/9994	PASS	0.116666667
187/692	6455/16398	PASS	0.108333333
121/672	4304/15858	PASS	0.119047619
245/692	8872/16386	PASS	0.138297872
			0.139393939
267/692	6777/16398	PASS	0.147540984
385/686	10146/15840	PASS	0.19379845
382/694	9663/16404	PASS	0.128205128
3/8	36/132	PASS	0.263157895
138/468	1039/10041	PASS	0.14516129
3/688	70/16364	PASS	0.15
288/694	6938/16400	PASS	0.153846154
218/684	3947/16394	PASS	0.188811189
533/694	10411/16396	PASS	0.109243697
			0.230769231
153/626	2825/11810	PASS	0.145454545
190/452	4565/11478	PASS	0.333333333