

Cancer Study	Type	AA change	AA position	Cosmic	FIS
TCGA-CD-A4MI	Stomach(TCG	A161V	161	Missense	diploid
HEC1B_ENDOMETRIUM	CCLC(Broad)	A47S	47	Missense	hetloss
HEC1A_ENDOMETRIUM	CCLC(Broad)	A47S	47	Missense	diploid
TCGA-CD-A4MJ	Stomach(TCG	A483T	483	Missense	diploid
TCGA-CG-5733	Stomach(TCG	A549S	549	Missense	diploid
TCGA-24-1419	Ovarian(TCGA	A748T	748	Missense	diploid
TCGA-24-1419	Ovarian(TCGA	A748T	748	Missense	diploid
TCGA-AA-3516	Colorectal(TC	A805V	805	Missense	diploid
TCGA-AA-3516	Colorectal(TC	A805V	805	Missense	diploid
SNU1040_LARGE_IN...	CCLC(Broad)	A810S	810	Missense	diploid
TCGA-D1-A161	Uterine(TCGA	A899fs	899	FSdel	diploid
TCGA-D1-A161	Uterine(TCGA	A899fs	899	FSdel	diploid
MCF7	NCI-60	D1043N	1043	Missense	hetloss
TCGA-HU-A4H5	Stomach(TCG	D1086Y	1086	Missense	gain
TCGA-BB-4227	Head&neck(T	D837H	837	Missense	diploid
TCGA-BS-A0UV	Uterine(TCGA	D871Y	871	Missense	diploid
TCGA-BS-A0UV	Uterine(TCGA	D871Y	871	Missense	diploid
TCGA-66-2783	Lungsqu(TCG	D994N	994	Missense	hetloss
TCGA-66-2783	Lungsqu(TCG	D994N	994	Missense	hetloss
TCGA-B5-A0JY	Uterine(TCGA	E100*	100	Nonsense	diploid
TCGA-B5-A0JY	Uterine(TCGA	E100*	100	Nonsense	diploid
TCGA-C8-A26V	Breast(TCGA)	E36D	36	Missense	diploid
TCGA-05-4396	Lungadeno(TC	E574*	574	Nonsense	hetloss
SKMES1_LUNG	CCLC(Broad)	E574*	574	Nonsense	gain
KMS11_HAEMATOPOI...	CCLC(Broad)	E594K	594	Missense	diploid
LC1F_LUNG	CCLC(Broad)	E606G	606	Missense	hetloss
LC1SQSF_LUNG	CCLC(Broad)	E606G	606	Missense	hetloss
HT115_LARGE_INTE...	CCLC(Broad)	E689*	689	Nonsense	diploid
647V_URINARY_TRACT	CCLC(Broad)	E802K	802	Missense	diploid
TCGA-D8-A147	Breast(TCGAp	E920fs	920	FSdel	hetloss
HCC1569_BREAST	CCLC(Broad)	F1010fs	1010	FSdel	hetloss
TCGA-BR-8680	Stomach(TCG	F1015L	1015	Missense	hetloss
HCT116_LARGE_INT...	CCLC(Broad)	F532fs	532	FSdel	diploid
TCGA-AA-A00N	Colorectal(TC	F641L	641	Missense	diploid
TCGA-AA-A00N	Colorectal(TC	F641L	641	Missense	diploid
TCGA-BS-A0UF	Uterine(TCGA	F641L	641	Missense	diploid
TCGA-BS-A0UF	Uterine(TCGA	F641L	641	Missense	diploid
SW403_LARGE_INTE...	CCLC(Broad)	G1106A	1106	Missense	gain
B109	Bladder(BGI)	G113E	113	Missense	NA
TCGA-CQ-5324	Head&neck(T	G166_splice	166	Splice	diploid

TCGA-CQ-5324	Head&neck(T	G166_splice	166	Splice	diploid
H090284	Liver(LGGM)	G231*	231	Nonsense	diploid
H090284	Liver(LGGM)	G448W	448	Missense	diploid
TCGA-DR-A0ZM	Cervical(TCGA	G535E	535	Missense	diploid
TCGA-BP-4989	ccRCC(TCGAp	G554E	554	Missense	diploid
TCGA-BP-4989	ccRCC(TCGA)	G554E	554	Missense	diploid
TCGA-BR-8384	Stomach(TCG.	G787A	787	Missense	diploid
TCGA-55-7907	Lungadeno(TC	G787V	787	Missense	diploid
BECKER_CENTRAL_N...	CCLC(Broad)	G823V	823	Missense	diploid
H110061	Liver(LGGM)	H359L	359	Missense	diploid
TCGA-91-6840	Lungadeno(TC	H417D	417	Missense	hetloss
MEL-JWCI-WGS-22	Melanoma(Br	H475Y	475	Missense	NA
HEC151_ENDOMETRIUM	CCLC(Broad)	H52Y	52	Missense	diploid
GP2D_LARGE_INTES...	CCLC(Broad)	I131M	131	Missense	diploid
NCIH1930_LUNG	CCLC(Broad)	I131V	131	Missense	hetloss
KS1_CENTRAL_NERV...	CCLC(Broad)	I220V	220	Missense	hetloss
TCGA-CF-A1HR	Bladder(TCGA	I288M	288	Missense	hetloss
TCGA-CF-A1HR	Bladder(TCGA	I288M	288	Missense	hetloss
TGBC11TKB_STOMACH	CCLC(Broad)	I81M	81	Missense	diploid
NCIH1573_LUNG	CCLC(Broad)	K1005*	1005	Nonsense	hetloss
NCIH1573_LUNG	CCLC(Broad)	K1005N	1005	Missense	hetloss
TCGA-AP-A0LM	Uterine(TCGA	K607N	607	Missense	diploid
TCGA-AP-A0LM	Uterine(TCGA	K607N	607	Missense	diploid
KM12_LARGE_INTES...	CCLC(Broad)	L109S	109	Missense	diploid
KM12	NCI-60	L109S	109	Missense	diploid
TCGA-30-1891	Ovarian(TCGA	L78fs	78f	FSdel	diploid
TCGA-30-1891	Ovarian(TCGA	L78fs	78f	FSdel	diploid
NCIH1836_LUNG	CCLC(Broad)	L793Q	793	Missense	hetloss
GCT_SOFT_TISSUE	CCLC(Broad)	M310V	310	Missense	gain
TCGA-A6-2676	Colorectal(TC	M704V	704	Missense	gain
TCGA-A6-2676	Colorectal(TC	M704V	704	Missense	gain
P08-716	Prostate(Broa	M704V	704	Missense	diploid
YUDAB	Melanoma(Ya	M782I	782	Missense	NA
TCGA-AA-3681	Colorectal(TC	M790T	790	Missense	diploid
TCGA-AA-3681	Colorectal(TC	M790T	790	Missense	diploid
TCGA-BR-8680	Stomach(TCG.	N1038H	1038	Missense	hetloss
TCGA-55-7281	Lungadeno(TC	N463S	463	Missense	diploid
TCGA-05-4424	Lungadeno(TC	N471S	471	Missense	diploid
TCGA-05-4424	Lungadeno(TC	N471S	471	Missense	diploid

TCGA-BR-4361	Stomach(TCG.N551S	551	Missense	diploid
TCGA-AN-A046	Breast(TCGA) N999D	999	Missense	diploid
TCGA-A8-A07R	Breast(TCGAp P1028A	1028	Missense	diploid
TCGA-A8-A07R	Breast(TCGA) P1028A	1028	Missense	hetloss
TCGA-13-0714	Ovarian(TCGA P1028T	1028	Missense	hetloss
LUAD-CHTN-MAD06-...	Lungadeno(Br P158S	158	Missense	diploid
TCGA-HT-8564	Glioma(TCGA) P237fs	237	FSdel	hetloss
SNUC5_LARGE_INTE...	CCLC(Broad) P237fs	237	FSdel	diploid
KMS12BM_HAEMATOP..	CCLC(Broad) P237Q	237	Missense	diploid
RERFGC1B_STOMACH	CCLC(Broad) P237Q	237	Missense	diploid
MOTN1_HAEMATOPOI..	CCLC(Broad) P237Q	237	Missense	diploid
SNU119_OVARY	CCLC(Broad) P237Q	237	Missense	HOMDEL
SNU620_STOMACH	CCLC(Broad) P237Q	237	Missense	diploid
HMC18_BREAST	CCLC(Broad) P237Q	237	Missense	hetloss
JHOS2_OVARY	CCLC(Broad) P237Q	237	Missense	hetloss
IALM_LUNG	CCLC(Broad) P237Q	237	Missense	diploid
TF1_HAEMATOPOIET...	CCLC(Broad) P237Q	237	Missense	gain
RERFLCAD1_LUNG	CCLC(Broad) P237Q	237	Missense	hetloss
LC1F_LUNG	CCLC(Broad) P237Q	237	Missense	hetloss
NCIH2227_LUNG	CCLC(Broad) P250S	250	Missense	hetloss
MEWO_SKIN	CCLC(Broad) P258S	258	Missense	diploid
LUAD-RT-S01702	Lungadeno(Br P266fs	266	FSdel	diploid
TCGA-78-7155	Lungadeno(TC P292fs	292	FSdel	diploid
TCGA-D3-A51R	Melanoma(TC P292L	292	Missense	diploid
TCGA-AA-3984	Colorectal(TC P301H	301	Missense	gain
TCGA-AA-3984	Colorectal(TC P301H	301	Missense	AMP
TCGA-EE-A29D	Melanoma(TC P301S	301	Missense	hetloss
TCGA-BA-6869	Head&neck(T P375S	375	Missense	diploid
TCGA-BA-6869	Head&neck(T P375S	375	Missense	diploid
KYSE150_OESOPHAGUS	CCLC(Broad) P377S	377	Missense	diploid
EVSAT_BREAST	CCLC(Broad) P434R	434	Missense	gain
TCGA-BR-A4QL	Stomach(TCG.P445L	445	Missense	diploid
SW1271_LUNG	CCLC(Broad) P452H	452	Missense	diploid
ME009	Melanoma(Br P468S	468	Missense	NA
TCGA-ER-A42L	Melanoma(TC P493S	493	Missense	hetloss
B74	Bladder(BGI) P506L	506	Missense	NA
TCGA-13-1483	Ovarian(TCGA P506R	506	Missense	hetloss
TCGA-13-1483	Ovarian(TCGA P506R	506	Missense	hetloss
HCT_116	NCI-60 P531fs	531	FSdel	diploid
TCGA-EE-A29L	Melanoma(TC P568L	568	Missense	hetloss
TCGA-AX-A063	Uterine(TCGA P579S	579	Missense	diploid

TCGA-AX-A063	Uterine(TCGA P579S	579	Missense	diploid
LNCAPCLONEFGC_PR...	CCLC(Broad) Q188R	188	Missense	hetloss
TCGA-BR-6452	Stomach(TCG Q678H	678	Missense	diploid
TCGA-CF-A3MG	Bladder(TCGA Q863E	863	Missense	hetloss
MM-0508	MM(Broad) Q903*	903	Nonsense	NA
TCGA-04-1331	Ovarian(TCGA R1020T	1020	Missense	hetloss
TCGA-04-1331	Ovarian(TCGA R1020T	1020	Missense	hetloss
TCGA-BR-4280	Stomach(TCG R1082K	1082	Missense	diploid
TCGA-IB-7651	Panceas(TCGA R1125H	1125	Missense	diploid
RS411_HAEMATOPOLI...	CCLC(Broad) R1125H	1125	Missense	diploid
NCCSTCK140_STOMACH	CCLC(Broad) R174C	174	Missense	gain
HEC151_ENDOMETRIUM	CCLC(Broad) R174C	174	Missense	diploid
TCGA-AX-A0J0	Uterine(TCGA R233S	233	Missense	diploid
TCGA-AX-A0J0	Uterine(TCGA R233S	233	Missense	diploid
	16913 Lungadeno(TC R252I	252	Missense	NA
TCGA-EE-A3JE	Melanoma(TC R287*	287	Nonsense	diploid
TCGA-B0-5710	ccRCC(TCGAp R28Q	28	Missense	diploid
TCGA-B0-5710	ccRCC(TCGA) R28Q	28	Missense	diploid
TCGA-05-4396	Lungadeno(TC R35L	35	Missense	hetloss
JHUEM7_ENDOMETRIUM	CCLC(Broad) R35W	35	Missense	diploid
TCGA-BT-A3PJ	Bladder(TCGA R35W	35	Missense	diploid
	16660 Lungadeno(TC R502C	502	Missense	NA
BT474_BREAST	CCLC(Broad) R63Q	63	Missense	hetloss
TCGA-A5-A0G9	Uterine(TCGA R657C	657	Missense	diploid
TCGA-A5-A0G9	Uterine(TCGA R657C	657	Missense	diploid
TCGA-24-1603	Ovarian(TCGA R694C	694	Missense	hetloss
TCGA-24-1603	Ovarian(TCGA R694C	694	Missense	hetloss
TCGA-B9-5156	pRCC(TCGA) R697G	697	Missense	diploid
TCGA-AG-A002	Colorectal(TC R737*	737	Nonsense	diploid
TCGA-AG-A002	Colorectal(TC R737*	737	Nonsense	diploid
ISHIKAWAHERAKLIO...	CCLC(Broad) R737*	737	Nonsense	diploid
TCGA-AX-A0J0	Uterine(TCGA R737*	737	Nonsense	diploid
TCGA-AX-A0J0	Uterine(TCGA R737*	737	Nonsense	diploid
TCGA-E2-A140	Breast(TCGAp R737*	737	Nonsense	diploid
HEC251_ENDOMETRIUM	CCLC(Broad) R744*	744	Nonsense	diploid
SNU81_LARGE_INTE...	CCLC(Broad) R744*	744	Nonsense	diploid
TCGA-AX-A05Z	Uterine(TCGA R744*	744	Nonsense	diploid
TCGA-AX-A05Z	Uterine(TCGA R744*	744	Nonsense	diploid
CL40_LARGE_INTES...	CCLC(Broad) R744*	744	Nonsense	diploid
TCGA-75-5147	Lungadeno(TC R744L	744	Missense	diploid

TCGA-AA-A00N	Colorectal(TC R744Q	744	Missense	diploid
TCGA-AA-A00N	Colorectal(TC R744Q	744	Missense	diploid
TCGA-D6-6517	Head&neck(T R767L	767	Missense	diploid
TCGA-D6-6517	Head&neck(T R767L	767	Missense	diploid
TCGA-B5-A0JY	Uterine(TCGA R82*	82	Nonsense	diploid
TCGA-B5-A0JY	Uterine(TCGA R82*	82	Nonsense	diploid
HEC251_ENDOMETRIUM	CCLC(Broad) R82*	82	Nonsense	diploid
YURIDA	Melanoma(Ya R82*	82	Nonsense	NA
TCGA-BS-A0UV	Uterine(TCGA R82*	82	Nonsense	diploid
TCGA-BS-A0UV	Uterine(TCGA R82*	82	Nonsense	diploid
LUAD-CHTN-3090416	Lungadeno(Br R827T	827	Missense	diploid
TCGA-F1-6177	Stomach(TCG R82Q	82	Missense	diploid
ESO-2143	Esophagus(Br R82Q	82	Missense	NA
TCGA-AC-A23H	Breast(TCGA) R838G	838	Missense	diploid
TCGA-22-4604	Lungsqu(TCG/ R854K	854	Missense	diploid
TCGA-22-4604	Lungsqu(TCG/ R854K	854	Missense	diploid
TCGA-05-4396	Lungadeno(TC R96L	96	Missense	hetloss
TCGA-EE-A20C	Melanoma(TC R96Q	96	Missense	diploid
TCGA-AA-A02H	Colorectal(TC R990Q	990	Missense	hetloss
TCGA-AA-A02H	Colorectal(TC R990Q	990	Missense	hetloss
SKHEP1_LIVER	CCLC(Broad) R995H	995	Missense	hetloss
LOXIMVI_SKIN	CCLC(Broad) R995L	995	Missense	diploid
LOXIMVI	NCI-60 R995L	995	Missense	diploid
TCGA-BB-4227	Head&neck(T S1023C	1023	Missense	diploid
NCIH2110_LUNG	CCLC(Broad) S278C	278	Missense	hetloss
YUAKER	Melanoma(Ya S308F	308	Missense	NA
TCGA-A6-2676	Colorectal(TC S336G	336	Missense	gain
TCGA-A6-2676	Colorectal(TC S336G	336	Missense	gain
TCGA-CF-A1HR	Bladder(TCGA S387F	387	Missense	hetloss
TCGA-CF-A1HR	Bladder(TCGA S387F	387	Missense	hetloss
MEL-Ma-Mel-102	Melanoma(Br S438F	438	Missense	NA
TCGA-CG-5721	Stomach(TCG S444P	444	Missense	diploid
TCGA-AX-A0J1	Uterine(TCGA S45Y	45	Missense	diploid
TCGA-AX-A0J1	Uterine(TCGA S45Y	45	Missense	diploid
TCGA-91-6829	Lungadeno(TC S803T	803	Missense	diploid
TCGA-91-6829	Lungadeno(TC S803T	803	Missense	diploid
	16678 Lungadeno(TS T255N	255	Missense	NA
TCGA-FP-7829	Stomach(TCG T367I	367	Missense	diploid
HCT_15	NCI-60 T851I	851	Missense	diploid
HCT15_LARGE_INTE...	CCLC(Broad) T851I	851	Missense	diploid
HRT18_LARGE_INTE...	CCLC(Broad) T851I	851	Missense	diploid

TCGA-AA-A00N	Colorectal(TC V1057A	1057	Missense	diploid
TCGA-AA-A00N	Colorectal(TC V1057A	1057	Missense	diploid
S00827	LungSC(CLCGF V234L	234	Missense	NA
TCGA-22-4613	Lungsqu(TCG V25F	25	Missense	diploid
TCGA-22-4613	Lungsqu(TCG V25F	25	Missense	diploid
HS729_SOFT_TISSUE	CCLC(Broad) V284I	284	Missense	gain
TCGA-GD-A3OP	Bladder(TCGA W178*	178	Nonsense	hetloss
TCGA-GF-A3OT	Melanoma(TC W268*	268	Nonsense	diploid
TCGA-44-7670	Lungadeno(TC W519C	519	Missense	hetloss
S00050	LungSC(CLCGF Y200S	200	Missense	NA
HEC151_ENDOMETRIUM	CCLC(Broad) Y862C	862	Missense	diploid

3D	VS	Allele Frequen	#Mut in Sampl	SIFT	PROVEAN	PolyPhen-2
U	Low		0.15	758 Damaging	Neutral	possiblydamag
U	Neutral		0.96	324 Tolerated	Neutral	benign
U	Neutral		0.49	365 Tolerated	Neutral	benign
U	Low		0.22	530 Damaging	Neutral	possiblydamag
U	Low		0.27	882 Tolerated	Neutral	benign
V	Neutral	NA		34 Damaging	Deleterious	neutral
V	Neutral	NA		34 Damaging	Deleterious	neutral
V	Neutral	NA		693 Damaging	Deleterious	neutral
U	Neutral	NA		681 Damaging	Deleterious	neutral
U	Low		0.42	1308 Damaging	Deleterious	probablydama
U		NA		70		
U		NA		70		
U	Medium	NA		384 Damaging	Deleterious	probablydamag
U	Medium		0.1	229 Damaging	Deleterious	probablydamag
U	Low		0.37	213 Damaging	Deleterious	probablydama
U	Low		0.16	7801 Damaging	Deleterious	probably/poss
U	Low		0.16	7553 Damaging	Deleterious	probably/poss
U	Neutral		0.02	228 Tolerated	Neutral	neutral
U	Neutral		0.02	214 Tolerated	Neutral	neutral
U			0.22	8620		
U			0.22	8890		
U	Medium	NA		53 Damaging	Neutral	medium
U		NA		9220		
U			0.28	47		
U	Low		0.72	55 Tolerated	Neutral	benign
U	Low		0.51	58 Tolerated	Neutral	benign
U	Low		0.97	56 Tolerated	Neutral	benign
U			0.41	640		
U	Medium		0.46	65 Damaging	Deleterious	possiblydamag
U		NA		108		
U			0.51	161		
U	Medium		0.53	5317 Damaging	Deleterious	benign
U			0.48	278		
V	Medium	NA		3513 Tolerated	Deleterious	benign
V	Medium	NA		3492 Tolerated	Deleterious	benign
U	Medium		0.32	7391 Tolerated	Deleterious	benign
U	Medium		0.32	7176 Tolerated	Deleterious	benign
U	Neutral		0.22	78 Damaging	Neutral	benign
U	Neutral	NA		207 Damaging	Deleterious	probablydamag
U			0.35	66		

U			0.35	69			
U			0.23	935			
U	Low		0.06	935	Damaging	Deleterious	probablydamag
U	Low		0.17	1312	Tolerated	Neutral	benign
V	Low	NA		66	Damaging	Neutral	low
V	Low	NA		58	Damaging	Neutral	low
U	Medium		0.1	40	Damaging	Deleterious	probablydamag
U	Medium		0.21	981	Damaging	Deleterious	medium
U	Medium		0.29	32	Damaging	Deleterious	probablydamag
U	Neutral		0.1	134	Tolerated	Neutral	possiblydamag
U	Low		0.21	108	Tolerated	Neutral	low
U	Low	NA		935	Damaging	Neutral	possiblydamag
U	Neutral		0.44	381	Tolerated	Neutral	benign
U	Neutral		0.55	578	Damaging	Neutral	benign
U	Neutral		0.55	114	Tolerated	Neutral	benign
U	Neutral		0.31	56	Tolerated	Neutral	benign
U	Neutral		0.1	278	Tolerated	Neutral	neutral
U	Neutral		0.1	290	Tolerated	Neutral	neutral
U	Medium		0.13	217	Damaging	Neutral	probablydamag
U			0.99	175			
U	Medium		1	175	Damaging	Deleterious	probablydamag
U	Medium		0.22	10148	Damaging	Neutral	benign
U	Medium		0.22	10489	Damaging	Neutral	benign
U	Neutral		0.53	326	Damaging	Deleterious	benign
U	Neutral	NA		1774	Damaging	Deleterious	benign
U		NA		52			
U		NA		52			
U	Low		0.32	61	Damaging	Deleterious	probablydamag
U	Neutral		0.11	86	Tolerated	Neutral	benign
V	Neutral	NA		595	Damaging	Deleterious	neutral
U	Neutral	NA		598	Damaging	Deleterious	neutral
U	Neutral	NA		36	Damaging	Deleterious	neutral
U	Low	NA		590	Damaging	Deleterious	probablydamag
V	Low	NA		94	Damaging	Deleterious	low
V	Low	NA		95	Damaging	Deleterious	low
U	Low		0.2	5317	Damaging	Deleterious	benign
U	Low		0.41	413	Tolerated	Neutral	low
U	Neutral		0.22	698	Tolerated	Neutral	benign
U	Neutral	NA		733	Tolerated	Neutral	benign

U	Low		0.04	2314	Tolerated	Neutral	benign
U	Neutral	NA		4185	Tolerated	Deleterious	benign
U	Medium	NA		174	Damaging	Deleterious	medium
U	Medium	NA		346	Damaging	Deleterious	medium
V	High	NA		60	Damaging	Deleterious	high
U	Low	NA		1834	Damaging	Neutral	low
U			0.11	432			
U			0.45	363			
U	Low		0.57	40	Damaging	Neutral	probablydamag
U	Low		0.33	42	Damaging	Neutral	probablydamag
U	Low		0.51	39	Damaging	Neutral	probablydamag
U	Low		1	42	Damaging	Neutral	probablydamag
U	Low		0.75	42	Damaging	Neutral	probablydamag
U	Low		0.4	48	Damaging	Neutral	probablydamag
U	Low		1	40	Damaging	Neutral	probablydamag
U	Low		1	60	Damaging	Neutral	probablydamag
U	Low		0.34	54	Damaging	Neutral	probablydamag
U	Low		0.67	75	Damaging	Neutral	probablydamag
U	Low		0.57	58	Damaging	Neutral	probablydamag
U	Low		1	57	Tolerated	Neutral	benign
U	Low		0.49	507	Tolerated	Neutral	possiblydamagi
U		NA		478			
U			0.81	1367			
U	Low		0.44	554	Damaging	Deleterious	probablydamag
V	Low	NA		3184	Damaging	Neutral	low
V	Low	NA		3197	Damaging	Neutral	low
U	Low		0.53	2906	Tolerated	Neutral	possiblydamagi
U	Low		0.57	407	Tolerated	Neutral	probably/poss
U	Low		0.57	418	Tolerated	Neutral	probably/poss
U	Neutral		0.67	80	Tolerated	Neutral	benign
U	Low		0.24	72	Damaging	Neutral	benign
U	Low		0.37	1534	Damaging	Deleterious	possiblydamagi
U	Low		0.38	138	Damaging	Neutral	probably/poss
U	Low	NA		2151	Damaging	Neutral	benign
U	Medium		0.06	788	Damaging	Deleterious	possiblydamagi
U	Medium	NA		103	Damaging	Deleterious	probablydamag
V	Medium	NA		45	Damaging	Deleterious	probablydamag
V	Medium	NA		44	Damaging	Deleterious	probablydamag
U		NA		1602			
U	Low		0.45	1569	Tolerated	Neutral	benign
U	Neutral		0.37	685	Tolerated	Neutral	benign

U	Neutral		0.37	709	Tolerated	Neutral	benign
U	Low		0.58	360	Damaging	Neutral	probably/poss
U	Medium		0.06	6281	Damaging	Deleterious	possiblydamag
U	Neutral		0.42	131	Tolerated	Deleterious	neutral
U		NA		77			
V	Medium	NA		78	Damaging	Deleterious	medium
V	Medium	NA		75	Damaging	Deleterious	medium
U	Medium		0.33	646	Damaging	Deleterious	probablydama
U	Neutral		0.16	13534	Damaging	Neutral	benign
U	Neutral		0.5	115	Damaging	Neutral	benign
U	Low		0.39	45	Damaging	Deleterious	probably/poss
U	Low		0.45	381	Damaging	Deleterious	probably/poss
U	Low		0.43	6645	Damaging	Neutral	probablydama
U	Low		0.43	6913	Damaging	Neutral	probablydama
U	Low	NA		5	Damaging	Neutral	low
U			0.06	232			
U	Neutral	NA		33	Tolerated	Neutral	neutral
U	Neutral	NA		32	Tolerated	Neutral	neutral
U	Medium	NA		9220	Damaging	Deleterious	probablydamag
U	Medium		0.47	825	Damaging	Deleterious	probablydama
U	Medium		0.17	430	Damaging	Deleterious	probablydama
U	Medium	NA		36	Damaging	Deleterious	medium
U	Low		0.36	109	Tolerated	Neutral	benign
U	Medium		0.11	199	Damaging	Deleterious	medium
U	Medium		0.11	196	Damaging	Deleterious	medium
V	Medium	NA		24	Damaging	Deleterious	medium
V	Medium	NA		24	Damaging	Deleterious	medium
U	Low		0.02	76	Damaging	Deleterious	probablydamag
V		NA		9896			
V		NA		9874			
U			0.51	314			
U			0.47	6913			
U			0.47	6645			
U		NA		33			
U			0.5	1171			
U			0.51	912			
U			0.23	5677			
U			0.23	5513			
U			0.98	40			
U	Neutral	NA		46	Damaging	Deleterious	neutral

V	Neutral	NA		3513	Damaging	Deleterious	probablydamag
V	Neutral	NA		3492	Damaging	Deleterious	probablydamag
U	Low		0.28	63	Damaging	Deleterious	probably/poss
U	Low		0.28	64	Damaging	Deleterious	probably/poss
U			0.35	8890			
U			0.35	8620			
U			0.48	1171			
U		NA		137			
U			0.34	7553			
U			0.34	7801			
U	Medium	NA		155	Damaging	Deleterious	medium
U	Medium		0.49	1083	Damaging	Neutral	possiblydamag
U	Medium		0.45	189	Damaging	Neutral	possiblydamag
U	Neutral	NA		3358	Tolerated	Deleterious	benign
U	Neutral		0.18	234	Tolerated	Deleterious	neutral
U	Neutral		0.18	230	Tolerated	Deleterious	neutral
U	Neutral	NA		9220	Tolerated	Neutral	benign
U	Neutral		0.34	1605	Tolerated	Neutral	benign
V	Neutral	NA		57	Damaging	Neutral	neutral
V	Neutral	NA		57	Damaging	Neutral	neutral
U	Medium		1	31	Damaging	Deleterious	probablydama
U	Medium		0.22	52	Damaging	Deleterious	probablydama
U	Medium	NA		296	Damaging	Deleterious	probablydama
U	Low		0.12	213	Damaging	Neutral	benign
U	Low		1	196	Damaging	Neutral	probablydama
U	Neutral	NA		1088	Damaging	Neutral	possiblydamag
V	Neutral	NA		595	Tolerated	Neutral	neutral
U	Neutral	NA		598	Tolerated	Neutral	neutral
U	Neutral		0.13	290	Damaging	Neutral	neutral
U	Neutral		0.13	278	Damaging	Neutral	neutral
U	Low	NA		1229	Damaging	Neutral	possiblydamag
U	Neutral		0.2	3370	Tolerated	Neutral	benign
U	Medium		0.42	3747	Damaging	Neutral	probablydama
U	Medium		0.42	3848	Damaging	Neutral	probablydama
U	Neutral		0.11	578	Tolerated	Neutral	neutral
U	Neutral	NA		596	Tolerated	Neutral	neutral
U	Low	NA		29	Tolerated	Neutral	low
U	Neutral		0.29	207	Damaging	Neutral	benign
U	Low	NA		4766	Damaging	Deleterious	probablydama
U	Low		0.47	741	Damaging	Deleterious	probablydama
U	Low		0.47	599	Damaging	Deleterious	probablydama

V	Neutral	NA		3513	Damaging	Neutral	neutral
V	Neutral	NA		3492	Damaging	Neutral	neutral
U	Low	NA		377	Tolerated	Neutral	low
U	Neutral		0.24	554	Damaging	Neutral	neutral
U	Neutral		0.24	567	Damaging	Neutral	neutral
U	Low		0.64	35	Tolerated	Neutral	benign
U			0.04	366			
U			0.28	421			
U	Medium		0.16	950	Damaging	Deleterious	medium
V	Low	NA		204	Damaging	Neutral	low
U	Low		0.57	381	Damaging	Deleterious	probablydam

**MutationAssessment SNV in dbSNP MAF(Minor Allel Frequency) in dbSNP**

low

neutral

neutral

low A483T,G>A

low

possibly/damaging

possibly/damaging

possibly/damaging

possibly/damaging

low

medium

medium

low

low

low

benign

benign

benign

low

low

low

medium

medium

medium F641L3C>A

medium F641L3C>A

medium F641L3C>A

medium F641L3C>A

neutral G1106A,G>C

neutral

low

low

obablydamaging

obablydamaging

medium

obablydamaging

medium

neutral

obablydamaging

low

neutral

neutral

neutral I131V,1,A>G 0.0009

neutral

benign

benign

medium

medium

medium

medium

neutral

neutral

low

neutral

blydamaging/bi M704V,A>G

blydamaging/bi M704V,A>G

blydamaging/bi M704V,A>G

low

obablydamaging

obablydamaging

low

benign

neutral

neutral

low  
neutral  
obablydamaging  
obablydamaging  
obablydamaging  
benign

low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low	P237Q,C>A	0.0014
low		
low		

low  
>ly/possiblydamaging  
>ly/possiblydamaging  
low  
low  
low  
neutral  
low  
low  
low  
low  
low  
medium  
medium  
medium

low  
neutral

neutral

low

medium

benign

obablydamaging

obablydamaging

medium

neutral

neutral

low R174C,C>T 0.0005

low R174C,C>T 0.0005

low

low

blydamaging/benign

benign

benign

medium

medium

medium

obablydamaging

low

obablydamaging

obablydamaging

obablydamaging

obablydamaging

low R697G,A>C

obablydamaging

neutral	R744Q,G>A	0.0005
neutral	R744Q,G>A	0.0005
low		
low		

obablydamaging  
medium  
medium  
neutral  
;n/possiblydamaging  
;n/possiblydamaging  
neutral  
neutral R96Q,G>A  
blydamaging/benign  
blydamaging/benign  
medium  
medium  
medium  
low  
low  
neutral  
benign  
benign  
benign  
benign  
low  
neutral  
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benign  
neutral  
low  
low  
low

benign

benign

obablydamaging

benign

benign

low

obablydamaging

ossiblydamaging

low