

Supplementary table 1: Sorting Intolerant From Tolerant (SIFT) results

Gene ID	Transcript ID	Subst Type	Region	Effect	Confidence Score	Classification Path	Nucleotide change	Amino acid change	Indel Location	Causes NMD	Transcript visualization
ENSG00000133703	ENST00000256078	AA_INSERTION	CDS	damaging	0.894	3N_CP10	gccta-CGC-cgcca	VGAGGVGKSA->VGAGGgVGKSA	7%	NO	<---{}--{}[]--[]--[*.]{}--{}---
ENSG00000133703	ENST00000311936	AA_INSERTION	CDS	damaging	0.894	3N_CP10	gccta-CGC-cgcca	VGAGGVGKSA->VGAGGgVGKSA	7%	NO	<---{}[]--[]--[*.]{}--{}---
ENSG00000133703	ENST00000556131	AA_INSERTION	CDS	damaging	0.894	3N_CP10	gccta-CGC-cgcca	VGAGGVGKSA->VGAGGgVGKSA	30%	NO	<---{}[]--[*.]{}--{}---
ENSG00000133703	ENST00000557334	AA_INSERTION	CDS	damaging	0.894	3N_CP10	gccta-CGC-cgcca	VGAGGVGKSA->VGAGGgVGKSA	18%	NO	<---{}[]--[*.]{}--{}---

Gene	Gene Desc	Protein Family ID	Protein Family Desc	Transcript Status	OMIM Disease	1000 Genomes
KRAS	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog [Source:HGNC Symbol]	Acc:6407]	ENSMF00500000269718	RAS PRECURSOR	3	NOONAN SYNDROME 3
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