



Welcome to The Genotyping Protocol System

Master Protocol

Strain Name: C57BL/6NJ-Serpina7^{em1J}/J
Stock Number: 025816
Allele: Serpina7-6132-KOMP CRISPR-EP
Protocol Name: Serpina7-6132-KOMP CRISPR-EP
Method: End Point Analysis
Created: 11-March -2015 (JKELMEN) **Updated:** 29-June -2015 (JKELMEN)

Notes

Notes: This allele from project Serpina7-6133 (line 103 P4F(L)) was generated at The Jackson Laboratory by injecting Cas9 RNA and guide sequences GTCATTTGCCCCAACAAAAT and CCGATACAGACTGAATGCAAAGT which resulted in a 7 bp deletion **ATTGCC** in exon2 beginning at Chromosome X negative strand position 139083601-139083595 bp (GRCm38/mm10). This mutation is predicted to cause amino acid sequence changes after residue 40 and early truncation 31 amino acids later.

Expected Results: Mutant =-----/------
Heterozygote = attgcc /-----
Wild type = attgcc / attgcc

X-linked

Attachments



View [serpina7-ep1.jpg](#)

- View [Serpina7_em1j_1-15-15\[1\].docx](#)
- View [Serpina7 mutant.gcs](#)
- View [Serpina7 genomic.gcs](#)

Sequence

Sequence

```
ATCATCTTCATTCCAGAATGTCAGTGTTCTTCTATCTGTTTGTCTTGGTATTGGGCTTCAG
GCTACAATCCATTGTGCACCAACATAACAGCTCTGAAGGCAAAGTAACGACCTGTC[attgcc]
C
CAACAAAATGCCACTCTCTATAAGATGCCATCTATCAATGCTGACTTTGCATTCACTCTGTA
TCGGAGGCTCTCTGTGGAGAACCCAGATTGAACATCTTCTCTCCCCTGTGAGCATATCT
G
```

Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
22950	-	CAT TGT GCA CCA CAT AAC AGC	-	Forward	-
22951	-	GAC TGA ATG CAA AGT CAG CA	-	Reverse	-
22952	Hex	CCT GTC ATT TGC CCC AAC A	Black Hole Quencher 1	WT Probe	-
22953	6-FAM	ACG ACC TGT CCC AAC AAA AT	Black Hole Quencher 1	MUT Probe	-

Reaction/Components A				Cycling			
Reaction Components	Volume Amt	Final Concentration	Total Volume Amt	Step #	Temp°C	Time	Note
2 X Kapa Probe Fast QPCR	2.50	.42	-	1	95	10min	-
ddH2O	7.44	-	-	2	92	15sec	-
100 uM 22950	0.02	.17	-	3	60	1 min	-
100 uM 22951	0.02	.17	-	4	-	-	repeat steps 2-3 for 40 cycles
100 uM 22952	0.01	.08	-	5	4	-	Forever
100 uM 22953	0.01	.08	-				
DNA	2.00	-	-				

Number Of Reactions 1

Version 3.2