



Gene Editing Rat Resource Center

Genotyping Your Model



Date:	4/2/2020	
Strain Symbol:	SS-Adora2b ^{em2Mcowi}	RGD ID: 6484715
Parental Strain:	<u>SS</u> ^{JrHsdMcowi}	Parental Strain RGD ID: 61499
Gene Targeted:	Adora2b	Gene RGD ID: 2050
Mutation Description:	162bp deletion (first 50amino acids exon1)	Allele RGD ID: 5687698
Deletion:	cgccagggacaccagaaagtagttggtgggg gtctgtaaagcactcgaggctcccaccgcagc gcacaccagcacgttgcccgccactgccagc gcggcgataaccagctccagcgccacgtaca gcgcgctctgcgtctctagctgcatggccgggc cagc	
Insertion	N/A	
Mutation Region:	(RGSC 5.0/rn5) chr10:48,358,163-48,358,324 is deleted	
Target Site:	AACTACTTTCTGGTGTccctgGCGAC GCGGGACGTGGCT	

Genotyping Primers:

Forward:	ACACAACCCCGGTAGAGGA
Reverse:	GATGGAGCTCTGTGTGAGCA
WT PCR Size:	323 bp
Mutant Size:	161 bp

Derivation Information:

Questions? Send an email to: mcwcustomrats@mcw.edu

This strain was produced by injecting ZFNs targeting the sequence AACTACTTTCTGGTGTccctgGCGACGGCGGACGTGGCT into SS/JrHsdMcwi rat embryos. This allele was made by ZFN mutagenesis. The resulting mutation is a 162-bp deletion in exon 1.

Suggested Genotyping:

PCR and then run on a 2% agarose gel. 323bp product will be the WT allele, and the 161bp product will be the mutant allele.