



Welcome to The Genotyping Protocol System

Master Protocol

Strain Name: C57BL/6NJ-Smg9^{em1J}/J
Stock Number: 027253
Allele: Smg9^{em1J}
Protocol Name: Smg9^{em1J}
Method: End Point Analysis
Created: 27-February -2015 (ESCHAAB) **Updated:** 22-May -2015 (JKELMEN)

Notes

Mutant = ATAGAGC(--) [ctgggttcta] CGGCGGCG
Expected Results: Wild type = ATAGAGC(gg) [] CGGCGGCG
2bp deletion GG and a 10 bp insertion CTGGGTTCTA

Attachments



View 269844-ep2.jpg

- View 27253 Smg9 genomic.gcs
- View 27253 Smg9 WT and mutant for endpoint assay_2-26-15.docx
- View 27253 Smg9_em1j_molecular description 2-24-15_1.docx

Sequence

GCCTGGGCTCTACGGGATAGAGC(gg/--)
[ctgggttcta]CGGCGGCGGTGGAAGGAGCCAGGCTCCA
Sequence

Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
22845	-	CAC AGT CAG CCT GGG CTC TA	-	Forward	-
22846	-	ACC ACC AGG TCC AGA AAG GT	-	Reverse	-
22847	Hex	TAG AGC GGC GGC GG	Black Hole Quencher 1	WT Probe	-
22848	6-FAM	AGC CTG GGT TCT ACG GC	Black Hole Quencher 1	MUT Probe	-

Reaction/Components A

Cycling

Reaction	Volume	Final Concentration	Total Volume	Step #	Temp°C	Time	Note
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Reaction/Components A				Cycling			
Components	Amt		Amt				
2 X Kapa Probe Fast QPCR	2.50	.83	-	1	95	10min	-
ddH2O	1.44	-	-	2	92	15sec	-
100 uM 22845	0.02	.33	-	3	60	1 min	-
100 uM 22846	0.02	.33	-	4	-	-	repeat steps 2-3 for 40 cycles
100 uM 22847	0.01	.17	-	5	4	-	Forever
100 uM 22848	0.01	.17	-				
DNA	2.00	-	-				

Number Of Reactions 1

Version 3.2