



Welcome to The Genotyping Protocol System

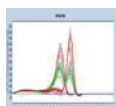
Master Protocol

Strain Name: C57BL/6NJ-Serpina1f^{em1J/J}
Stock Number: 027570
Allele: Serpina1f-6844-KOMP CRISPR
Protocol Name: Serpina1f^{em1j}
Method: MELT
Created: 23-November -2015 (DTG) **Updated:** 04-January -2016 (DTG)

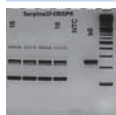
Notes

Expected Results: Mutant = 125 bp
Heterozygote = 125 bp and 242 bp
Wild type = 242 bp

Attachments



View 27570-serpina1f.JPG



View 308838-serpina1f.jpg

- View Serpina1fem1jMolDesAug2015-1.docx
- View Serpina1f genomic-redesign_for_melt.gcs

Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
25728	-	TTG TTC CGA GTC GAG GAT CT	-	Forward	A
25729	-	GCC AGT CTT CTA GGG CCT TT	-	Reverse	A

Number Of Reactions 1

Reaction A (2 Primer)		Cycling (TouchDown 65-60_12-12-11)			
Component	Final Concentration	Step #	Temp°C	Time	Note
ddH2O		1	94	2 min	-
Kapa 2G HS buffer	1.3 X	2	94	20sec	-
MgCl2	2.6 mM	3	65	15sec	-0.5 C per cycle decrease
dNTPS-kapa	.26 mM	4	68	10sec	-
25728	.5 uM	5	-	-	repeat steps 2-4 for 10 cycles (Touchdown)
25729	.5 uM	6	94	15sec	-
Glycerol	6.5 %	7	60	15sec	-
Dye	1 X	8	72	10sec	-
Kapa 2G HS taq polymerase	.03 U/ul	9	-	-	repeat steps 6-8 for 28 cycles
		10	72	2 min	-

Reaction	A	(2 Primer)	Cycling (TouchDown 65-60_12-12-11)			
DNA			11	10	-	hold

Version 3.2