



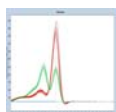
Welcome to The Genotyping Protocol System

Master Protocol

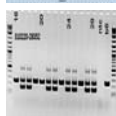
Strain Name: C57BL/6NJ-*Nadk2*^{em1J/J}
Stock Number: 028352
Allele: *Nadk2*^{em1J}
Protocol Name: *Nadk2*^{em1J}
Method: MELT
Created: 21-October -2015 (JKELMEN) **Updated:** 11-December -2015 (ESCHAAB)

Notes

Expected Results: Mutant = 155 bp
 Heterozygote = 155 bp and 249 bp
 Wild type = 249 bp

Attachments

View 310220-mca1.jpg



View 310220-28352.jpg

- View [Nadk2em1jMolDesOct2015.docx](#)
- View [Nadk2 genomic1.gcs](#)

Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
25317	-	AGG GCT TTT AAA TGA CAT TGT G	-	Forward	A
25318	-	ACC AAC AGT CTG AGA ATT AGC TG	-	Reverse	A

Reaction/Components A

Reaction Components	Volume Amt	Final Concentration	Total Volume Amt
ddH2O	4.55	-	-
5 X Kapa 2G HS buffer	2.40	1	-
25 mM MgCl ₂	0.96	2	-
10 mM dNTPS-kapa	0.24	.2	-
20 U Primer 1	0.30	.5	-
20 U Primer 2	0.30	.5	-
5 mM 10x Loading Dye	1.20	.5	-
2.5 U/ul Kapa 2G HS taq polymerase	0.05	.01	-
DNA	2.00	-	-

Cycling

Step #	Temp °C	Time	Note
1	94	2 min	-
2	94	20sec	-
3	65	15sec	-0.5 C per cycle decrease
4	68	10sec	-
5	-	-	repeat steps 2-4 for 10 cycles
6	94	15sec	-
7	60	15sec	-
8	72	10sec	-

Cycling

9	-	-	repeat steps 6-8 for 28 cycles
10	72	2 min	-
11	10	-	hold

Number Of Reactions 1

Version 3.2