



Welcome to The Genotyping Protocol System

Master Protocol

Strain Name: C57BL/6NJ-St6galnac3^{em1J}/J

Stock Number: 029157

Allele: St6galnac3^{em1J}Protocol Name: St6galnac3^{em1J}

Method: MELT

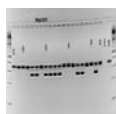
Created: 03-May -2016 (LUCASM)

Updated: 29-July -2016 (ESCHAAB)

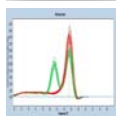
Notes

Expected Results: Mutant = 271 bp
Heterozygote = 271 bp and 346 bp
Wild type = 346 bp

Attachments



View St6gal-29157 Gel.jpg



View St6gal Mplex Melt.jpg

- View St6galnac3 Genomic.gcs

- View St6galnac3em1jMolDesApr2016.docx

Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
27869	-	ACA GAA GGC AGA ATC GAT GG	-	Common	A
27870	-	TGT TAT CTG GGG CCC TTT C	-	Wild type Forward	A
27871	-	AGC ACC AAA GTT CAA AAT GC	-	Mutant Forward	A

Number Of Reactions 1

Reaction A (3 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
dNTP KAPA	.26 mM	4	68	10sec	-
27870	.5 uM	5	-	-	repeat steps 2-4 for 10 cycles (Touchdown)
27869	.5 uM	6	94	15sec	-
27871	.5 uM	7	60	15sec	-
Glycerol	6.5 %	8	72	10sec	-
		9	-	-	repeat steps 6-8 for 28 cycles

Reaction A (3 primer)		Cycling (TouchDown 65-60_12-12-11)			
Dye	1 X	10	72	2 min	-
Kapa 2G HS taq polymerase	.03 U/ul	11	10	-	hold
DNA					

Version 3.2