



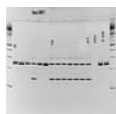
**Welcome to The Genotyping Protocol System**

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**Master Protocol****Strain Name:** C57BL/6NJ-*Hpse2*<sup>em1J/J</sup>**Stock Number:** 028871**Allele:** *Hpse2*<sup>em1J</sup>**Protocol Name:** *Hpse2*<sup>em1J</sup>**Method:** Standard PCR**Created:** 29-February -2016 (JKELMEN) **Updated:** 11-June -2016 (ESCHAAB)**Notes**

Expected Results: Mutant = 134 bp  
 Heterozygote = 134 bp and 239 bp  
 Wild type = 239 bp

**Attachments**

View Hpse-28871 Gel.jpg

- View Hpse2MolDescrFeb2016.docx

- View Hpse2 genomic.gcs

**Protocol Primers**

Primer	5' Label	Sequence 5' --> 3'	3' Label	Description	Reaction
26973	-	TCC AGA GGC TGA GGG TAA AG	-	Common	A
26974	-	CCA CCC CAA TTT CCT CCA	-	Mutant Reverse	A
26975	-	GGC CAA GGT CAC CAG ACG	-	Wild type Reverse	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	-
26974	.5 uM	5	-	-	repeat steps 2-4 for 10 cycles (Touchdown)
26973	.5 uM	6	94	15sec	-
26975	.5 uM	7	60	15sec	-
Glycerol	6.5 %	8	72	10sec	-
Dye	1 X	9	-	-	repeat steps 6-8 for 28 cycles
Kapa 2G HS taq polymerase	.03 U/ul	10	72	2 min	-
DNA		11	10	-	hold

Version 3.2