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# Rars2 (MANT; EPD0045\_2\_C04)

Allele: Rars2<sup>tm1a(EUCOMM)Wtsi</sup>

## **Genotyping Information**

These mice may be genotyped through a combination of separate PCR reactions that detect *LacZ*, the gene-specific wild type allele, and a mutant allele-specific short range PCR. Interpretation of the consolidated results produces the genotype of the mice.

For example: *LacZ* positive, mutant positive, wild type positive = heterozygous.

### > PCRs primer pairs and expected size bands

PCR type	Forward primer	Reverse primer	Expected size band (bp)
Mutant PCR	Rars2_F	CAS_R1_Term x	337
Wild type PCR	Rars2_F	Rars2_R	631
LacZ PCR	LacZ_2_small_F	LacZ_2_small_R	108

#### Primer sequences

Primer name	Primer sequence (5' > 3')		
CAS_R1_Term	TCGTGGTATCGTTATGCGCC		
Rars2_F	TCCTATGGCCTTTGCTTTGG		
Rars2_R	GGTGGAAGAGCCAATACTCTGG		
LacZ_2_small_F	ATCACGACGCGCTGTATC		
LacZ_2_small_R	ACATCGGGCAAATAATATCG		

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### Reaction

Reagent	μΙ
DNA (~50-100 ng) 10x Buffer MgCl <sub>2</sub> (50 mM) PtTaq (Platinum Taq (Invitrogen)) dNTPs (100 mM) Primer 1 (10 $\mu$ M) Primer 2 (10 $\mu$ M) H <sub>2</sub> 0	1.0 2.0 0.6 0.2 0.2 0.4 0.4 15.2
Total	<u>20.0</u>

## Cycling conditions

#### Wild type and mutant PCRs

#### LacZ PCR

Cycle			Cycle		
1	94 °C	5 min	1	94 °C	5 min
2	94 °C	30 sec	2	94 °C	30 sec
3	58 °C	30 sec	3	60 °C	30 sec
4	72 °C	45 sec	4	72 °C	30 sec
5		- 34 cycles	5		- 34 cycles
6	72 °C	5 min	6	72 °C	5 min
7	12 °C	forever	7	12 °C	forever

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