

B6(SJL)-Apoe^{tm1.1(APOE*4)Adiuj} Trem2^{em1Adiuj}/J

Stock No: 028709

Protocol 20077: End Point Analysis Assay - Trem2<em1Adiuj>

Version 1.0

Notes

The genotyping protocol(s) presented here have been optimized for reagents and conditions used by The Jackson Laboratory (JAX). To genotype animals, JAX recommends researchers validate the assay independently upon receipt of animals into their facility. Reaction cycling temperature and times may require additional optimization based on the specific genotyping reagents used.

Expected Results

 >[chr17:48487850+48487972](#) 123bp ACTTATGACGCTTGAAGCA CTTCTTCAGGAAGGCCAGCA

CACTGGGGGAGAC(g/a)CAA(g/a)GC(c/a)TGGTGTCTGGCAGCT

Mut = A, A, A

WT= G, G, C

Sequence

SEQ

JAX Protocol

Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
29795		ACT TAT GAC GCC TTG AAG CA		Forward	A	
29796		CTT CTT CAG GAA GGC CAG CA		Reverse	A	
29799	Fluorophore-1	AGA CGC AAG GCC TGG TG	Quencher-1	WT Probe		
29800	Fluorophore-2	AGA CAC AAA GCA TGG TGT CG	Quencher-2	MUT Probe		

Reaction A

COMPONENT	FINAL CONCENTRATION
Kapa Probe Fast QPCR	1.00 X
ddH2O	
29795	0.40 uM
29796	0.40 uM
Wt Probe	0.15 uM
Mutant Probe	0.15 uM
DNA	

Cycling

STEP	TEMP °C	TIME	NOTE
1	95.0	--	
2	95.0	--	
3	60.0	--	
4		--	repeat steps 2-3 for 40 cycles
5	4.0	--	Forever

JAX uses a very high speed Taq (~1000 bp/sec), use cycling times recommended for your reagents.

Endpoint Fluorescence Scatter Plot

