

129S4.Cg-Tg(APPSwe,tauP301L)1Lfa *Psen1*^{tm1Mpm}/LfaJ

Stock No: 031988

 Protocol 18025: End Point Analysis Assay - *Psen1*<tm1Mpm>-EP

Version 4.0

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

 Mutant GTC **GTG** GTG ACC

 Wild type GTC **ATT** ATG ACC

Sequence

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AAAAGACTCATTAAACCGCAGACCTCACAGTGAATTACA
GTTTTAAGAGTGTGCTGTTTG
ACATATGCATTAACACTCTGGTGTGTTTGTTCCTCTGTAG
AATCTACACCCCATTCACAGA
AGACACTGAGACTGTAGGCCAAAGAGCCCTGCACTCGAT
CCTGAATGCGGCCATCATGAT
CAGTGTCATTGTC(a/g) T (t/g) (a/g)
TGACCATCCTCCTGGTGGTCCTGTATAAATACAGGTG
CTACAAGGTGAGCACGAGGCAGTCTGCTGTCCGCCTTGA
CCTGCCTATGGGTTGTCCTT
GTGTGTGTGGGAGGGGAAGGGTGGGAGAGTTGGGGGCG
GGGGAGATGTGTATGCAGG
CCTGTGCATGTCAGAGTGTGCGTGTGCAGTTGGTAGGAC
CACTTTGTGGAATG
  
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JAX Protocol

Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
17090		CAC CCC ATT CAC AGA AGA CA		Forward	A	
17091		CAA CCC ATA GGC AGG TCA AG		Reverse	A	
17092	Fluorophore-1	TGT CAT TGT CAT TAT GAC CAT CCT	Quencher-1	Wild type	A	
17093	Fluorophore-2	TCA TTG TCG TGG TGA CCA TC	Quencher-2	Mutant	A	

Reaction A

COMPONENT	FINAL CONCENTRATION
Kapa Probe Fast QPCR	1.00 X
ddH2O	
17090	0.40 uM
17091	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

