

B6(Cg)-Cdkl5^{tm2.1Joez}/J

Stock No: 028856

Protocol 32456: End Point Analysis Assay - Cdkl5<tm2.1Joez> EP

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

Mutant =T/T

Heterozygote = C/T

Wild type = C/C

>[chrX:157303890-157303990](#) 101bp TCTAGAAAATGAAGAAGTCAAGGAG GACGAAAAGCTTCCTTCAGC

Sequence

tagAAAATGAAGAAGTCAAGGAGACGACCTTA(c/t)GAGAGCTTAAA
ATGCTTCGCACTC

JAX Protocol

Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
39150		TCT AGA AAA TGA AGA AGT CAA GGA G		Forward	A	
39151		GAC GAA AAG CTT CCT TCA GC		Reverse	A	
39152	Fluorophore-1	CGA CCT TAC GAG AGC TTA AAA TGC T	Quencher-1	WT Probe		
39153	Fluorophore-2	CGA CCT TAT GAG AGC TTA AAA TGC T	Quencher-2	MUT Probe		

Reaction A

COMPONENT	FINAL CONCENTRATION
Kapa Probe Fast QPCR	1.00 X
ddH ₂ O	
39150	0.40 uM
39151	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

