STOCK *Wt1*$^{tm2(cre/ERT2)Wtp}$/J

Stock No: 010912
Protocol 37247: Probe Assay - Wt1<tm2(cre/ERT2)Wtp> Probe
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

JAX Protocol

Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
14926		AGG ATG TTC CCC AAT GCG		Wild type Forward	A	
14927		CCG GAA TCC TTA CCT TGG TTG		Wild type Reverse	A	
14928	Fluorophore-1	CCT ACC TGC CCA GCT GCC T	Quencher-1	WT Probe		
14929		AGG AGC GGA GAA CCG TC		Mutant Forward	A	
14930		TCT TGC GAA CCT CAT CAC TC		Mutant Reverse	A	
14931	Fluorophore-2	CTG ACC GTA CAC CAA AAT TTG CCT GC	Quencher-2	MUT Probe		

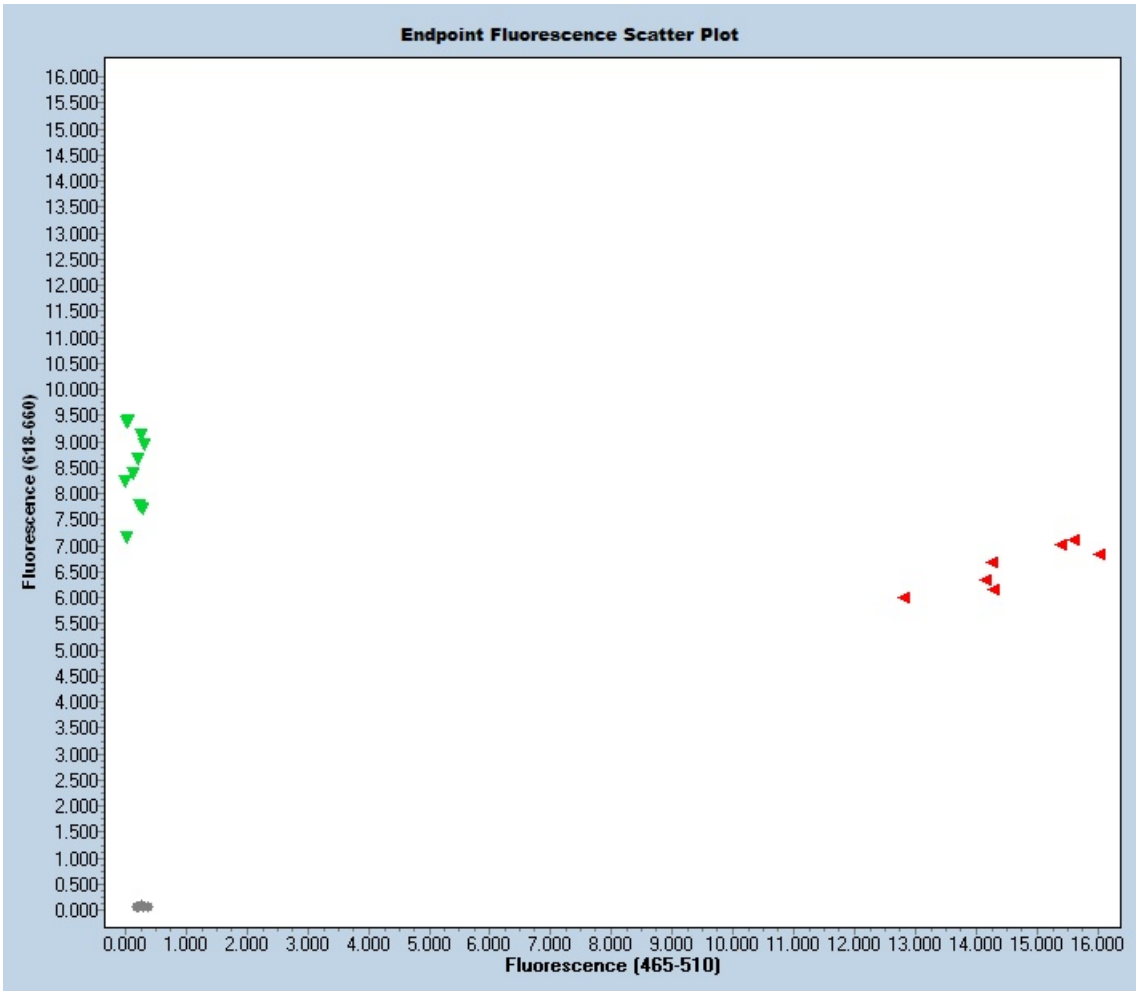
Reaction A

COMPONENT	FINAL CONCENTRATION
Kapa Probe Fast QPCR	1.00 X
ddH2O	
14926	0.40 uM
14927	0.40 uM
14929	0.40 uM
14930	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
Fluorescence (618-660)
16.000
15.500
15.000
14.500
14.000
13.500
13.000
12.500
12.000
11.500
11.000
10.500
10.000
9.500
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0.000 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000 10.000 11.000 12.000 13.000 14.000 15.000 16.000
Fluorescence (465-510)