

NOD/ShiLt-Tg(Cd4-DsRed)4Lt/J

Stock No: 005328

Protocol 31749: Probe Assay - Generic DsRed Probe

Version 1.0

Notes

This assay cannot distinguish hemi from hom

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

Tg= 81 bp

IPC = 74 bp

Sequence

Tg Sequence:

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aggacggctgctcatctacaagggtgaagttcatcggcgtgaactcccctccgacgg
ccccgtgatgcagaagaagacca
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JAX Protocol

Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
37529		AGG ACG GCT GCT TCA TCT AC		Transgene Forward	A	
37530		TGG TCT TCT TCT GCA TCA CG		Transgene Reverse	A	
37531	Fluorophore-1	AGT TCA TCG GCG TGA ACT TC	Quencher-1	Tg Probe		
oIMR1544		CAC GTG GGC TCC AGC ATT		Internal Positive Control Forward	A	
oIMR3580		TCA CCA GTC ATT TCT GCC TTT G		Internal Positive Control Reverse	A	
TmoIMR0105	Fluorophore-2	CCA ATG GTC GGG CAC TGC TCA A	Quencher-2	IC Probe		

Reaction A

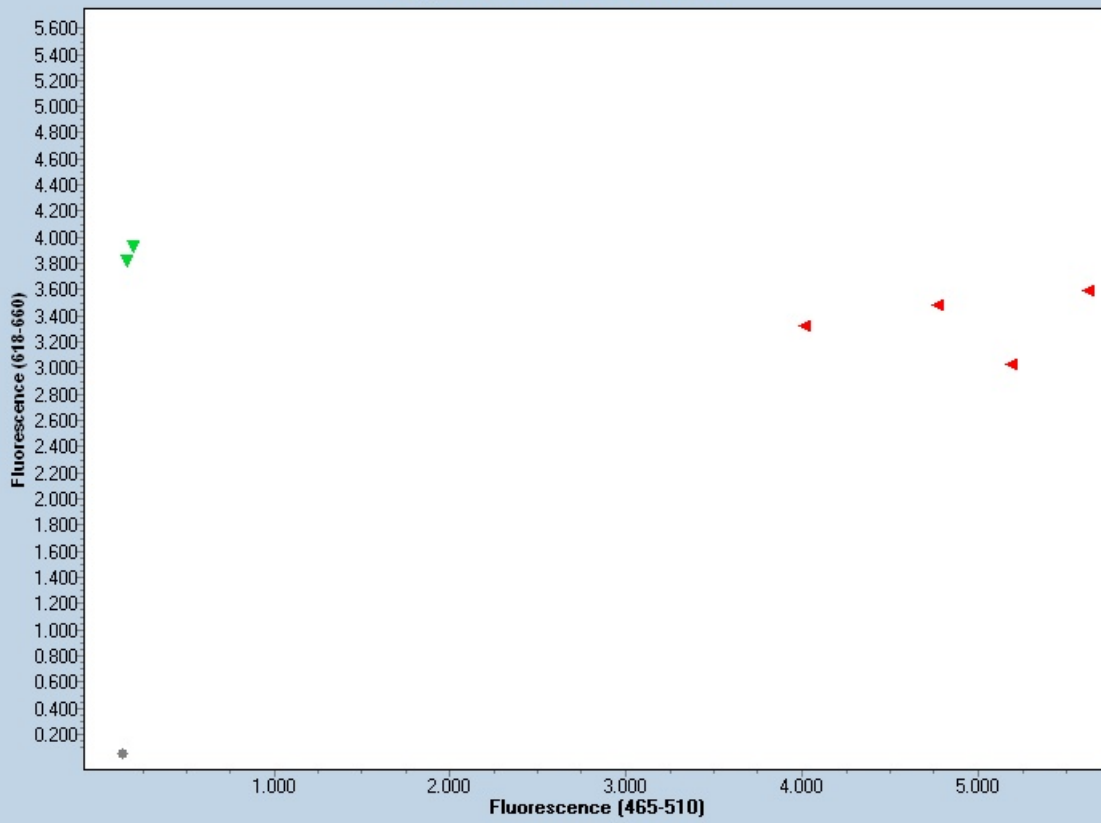
COMPONENT	FINAL CONCENTRATION
Kapa Probe Fast QPCR	1.00 X
ddH2O	
37529	0.40 uM
37530	0.40 uM
oIMR1544	0.40 uM
oIMR3580	0.40 uM
Wt Probe	0.15 uM
Mutant Probe	0.15 uM
DNA	

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

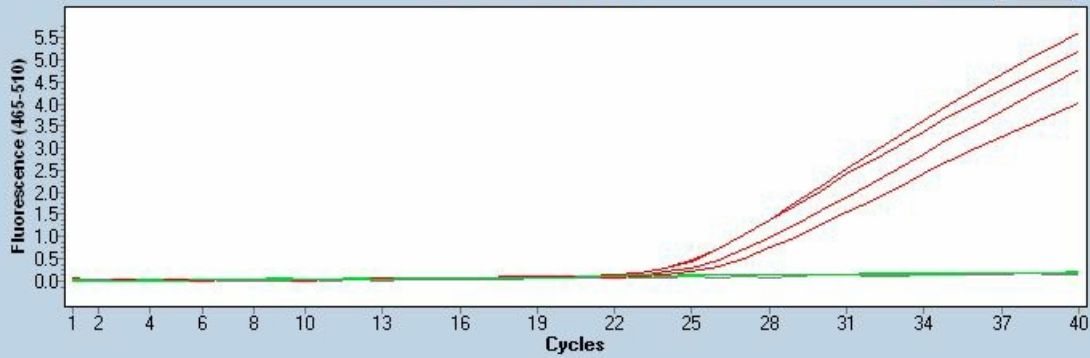
JAX uses a very high speed Taq (~1000 bp/sec), use cycling times recommended for your reagents.

Endpoint Fluorescence Scatter Plot



Fluorescence History

Select Zoom



Fluorescence History

Select Zoom

