

B6;CBA-Tg(APOC3)3707Bres/J

Stock No: 006907

Protocol 32903: Probe Assay - Tg(APOC3)3707Bres Probe alt1

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= 87 bp

IPC = 74 bp

Sequence

Tg Sequence:

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tctcctgcctcagcctccaagtagctgggattacaggcagcgccaccacacca
gctaattttgtatttttagcagagatggggttcaccatgttgccaggttgttgaattc
ctgacctcaggggatcctcctgcctcggcctcccaagtgctgggattacaggcatg
agccACTGCGCCTGGCCCCATttccttttgaaggctggctagagcagt
ggctcctcagccttttggcaccagggaccagtttgggtggacaattttccatgggcca
gcggggatggtttgggatgaagctgttccacctcagatcatcaggcattagattctcat
aa
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JAX Protocol

Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
39725	Fluorophore-1	TCC CAA AGT GCT GGG ATT AC	Quencher-1	Transgene Forward	A	
39727		TGA GGA CCA CTG CTC TAG CC		Transgene Reverse	A	
40244	Fluorophore-2	TGG CCC CAT TTT CCT	Quencher-2	MUT 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-3	CCA ATG GTC GGG CAC TGC TCA A	Quencher-3	IC Probe		

Reaction A

COMPONENT	FINAL CONCENTRATION
Kapa Probe Fast QPCR	1.00 X
ddH2O	
39725	0.40 uM
39727	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

