

## B6.Cg-Tg(BCL2)36Wehi/J

Stock No: 002321

Protocol 25610: Standard PCR Assay - Tg(BCL2)

Version 2.2

### Notes

This assay will NOT distinguish hemizygous from homozygous transgenic animals.

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

Transgene = 170 bp

Internal positive control = 324 bp

Separated by gel electrophoresis on a 2.0% agarose gel.

### JAX Protocol

#### Protocol Primers

PRIMER	5' LABEL	SEQUENCE 5' → 3'	3' LABEL	PRIMER TYPE	REACTION	NOTE
oIMR0550		TGG ATC CAG GAT AAC GGA GG		Transgene Forward	A	
oIMR0551		TGT TGA CTT CAC TTG TGG CC		Transgene Reverse	A	
oIMR7338		CTA GGC CAC AGA ATT GAA AGA TCT		Internal Positive Control Forward	A	
oIMR7339		GTA GGT GGA AAT TCT AGC ATC ATC C		Internal Positive Control Reverse	A	

#### Reaction A

COMPONENT	FINAL CONCENTRATION
ddH <sub>2</sub> O	
Kapa 2G HS buffer	1.30 X
MgCl <sub>2</sub>	2.60 mM
dNTP KAPA	0.26 mM
oIMR0550	0.50 uM
oIMR0551	0.50 uM
oIMR7338	0.50 uM
oIMR7339	0.50 uM
Glycerol	6.50 %
Dye	1.00 X
Kapa 2G HS taq polym	0.03 U/ul
DNA	

#### Cycling

STEP	TEMP °C	TIME	NOTE
1	94.0	--	
2	94.0	--	
3	65.0	--	-0.5 C per cycle decrease
4	68.0	--	
5		--	repeat steps 2-4 for 10 cycles (Touchdown)
6	94.0	--	
7	60.0	--	
8	72.0	--	
9		--	repeat steps 6-8 for 28 cycles
10	72.0	--	
11	10.0	--	hold

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

JAX uses a 'touchdown' cycling protocol and therefore has not calculated the optimal annealing temperature for each set of primers.

