

## CreERT2 generic

Stock Number: 004453

Strain Name: [STOCK Tg\(CAG-cre/Esr1\\*\)5Amc/J](#)

[Allele:](#) Generic Cre

[Protocol Name:](#) Generic Cre

[Method:](#) Standard PCR

[Version:](#) 1.1

[Created:](#) 09-January -2001 [Updated:](#) 24-September-2009

Notes: This assay will NOT distinguish hemizygous from homozygous transgenic animals.

Expected Results: Transgene = ~100 bp

Internal positive control = 324 bp

Gel Image



Gel Information: Separated by gel electrophoresis on a 3.0% agarose gel.

### Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Primer Type
oIMR1084	-	GCG GTC TGG CAG TAA AAA CTA TC	-	Transgene
oIMR1085	-	GTG AAA CAG CAT TGC TGT CAC TT	-	Transgene
oIMR7338	-	CTA GGC CAC AGA ATT GAA AGA TCT	-	Internal Positive Control Forward
oIMR7339	-	GTA GGT GGA AAT TCT AGC ATC ATC C	-	Internal Positive Control Reverse

[Number of Reactions](#)

### Reaction/Components

Reaction Component	Volume (µl)	Final Concentration	Total Volume (µl)
ddH2O	2.79	-	2.79
10 X AB PCR BufferII	1.20	1.00 X	1.20
25 mM MgCl2	0.96	2.00 mM	0.96
2.5 mM dNTP	0.96	0.20 mM	0.96
20 uM oIMR1084	0.60	1.00 uM	0.60

20 uM oIMR1085	0.60	1.00 uM	0.60
20 uM oIMR7338	0.60	1.00 uM	0.60
20 uM oIMR7339	0.60	1.00 uM	0.60
5 mM DNA Loading Dye	1.66	0.69 mM	1.66
5 U/ul Taq DNA Polymerase	0.03	0.01 U/ul	0.03
DNA	2.00	-	2.00

### Cycling

Step #	Temp °C	Time	Note
1	94	3 min	-
2	94	30 sec	-
3	51.7	30 sec	-
4	72	1 min	repeat steps 2-4 for 35 cycles
5	72	2 min	-
6	10	-	hold