

McManus lab Cre genotyping protocol

Standard Master Mix

Reagents	1X Vol (uL)
H <sub>2</sub> O	16.2
NEB 10x Standard or ThermoPol Buffer	2.5
50 mM MgCl <sub>2</sub>	1
10 mM dNTPs	0.5
Actin Cre F primer 10 uM	1.3
Actin Cre R primer 10 uM	1.3
NEB Taq 5 U/uL	0.2
DNA	2
<b>Volume per reaction</b>	<b>25</b>

Standard Cycle

temp	length
94	5 min
94	30 sec
60	30 sec
72	45 sec
72	7 min
15	hold

Repeat for 36 cycles

Add 23 uL MasterMix to 2 uL DNA

PCR products visualized on 1.5% agarose gel with 100 bp ASI ladder or with Qia

qiagen Cre F primer sequence  
qiagen Cre R primer sequence

GAACC TGATG GACAT GTTCA GG  
AGTGC GTTCG AACGC TAGAG CCTGT

36X

xcel machine