*Multiplex PCR for ChR2 Protocol*

*(use for eNpHR3.0, Arch, ChR2-YFP, and ChR2-tdTomato mice)*

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12 l of RR711 (WT-F)

12 l of RR712 (CAG-R)

6 l of RR713 (WT-R)

(586.5 l dH2O) x 2

1.203 l dH2O

Add 11.4 l primer mix

Add 12.6 l EconoTaq

Add 1-2 l of DNA to tube.

*PCR Program*

Use ChR2-M program.

95ºC 2:00

95ºC 0:30

60ºC 0:30

72ºC 1:00

30X to 2

72ºC 3:00

4ºC forever

*Primers*

RR711: GCACTTGCTCTCCCAAAGTC (WT-F)

RR712: GGGCGTACTTGGCATATGAT (CAG primer)

RR713: CTTTAAGCCTGCCCAGAAGA (WT-R)

RR714: GCGAAGAGTTTGTCCTCAACC (do NOT put this primer in it is the reverse in the SA sequence)

Rosa26::CAG band: 495 bp

Rosa26::WT band: 252 bp