VGER

GENOTYPING PROTOCOL

Investigator: Mark Magnuson Genome Edit: Zfp92 KO Allele name: Zfp92^{em1Mgn}

Primers:

KD2-Fwd: AATTCCCGACCACATAACTG

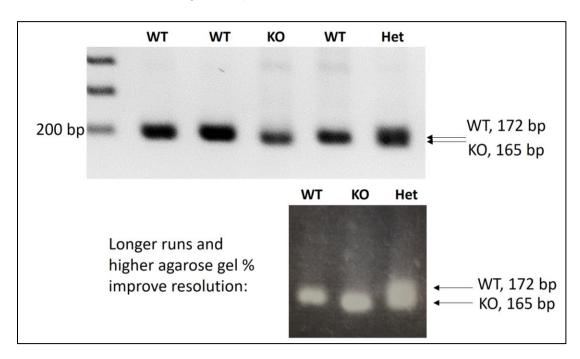
KD-2 Rev: GCAAGAAGTTCCAAAGCAGAGTC

Predicted PCR Product: WT = 172 bp, KO = 165 bp

PCR protocol:

20 µL PCR reaction		PCR program	
5x Phusion HF buffer	= 4 µL	1. 98°C, 30 sec	
10 mM dNTPs	$= 0.4 \mu L$	2. 98°C, 10 sec	
10 μM KD2-F2:	$= 1.0 \mu L$	3. 61°C, 15 sec	
10 μM Zfp92 7bpRev:	$= 1.0 \mu L$	4. 72°C, 20 sec	
DMSO	$= 0.6 \mu L$	5. Go to 2, 40 X	
Phusion Polymerase	$= 0.2 \mu L$	6. 72°C, 7 min	
Water	= 11.8 µL	7. 4°C, ∞	
Genomic DNA (about 50 ng) - 1 0 ul			

Genomic DNA (about 50 ng) = $1.0 \mu L$



Knockout Allele Confirmation PCR:

When WT and KO bands cannot be clearly distinguished this assay will amplify only the KO allele.

Primers:

KD2-F2: CATGCTGCTTGCCTGAGTTTCC Zfp92 7bp Rev: GATGGCTGTAGTTCTCACTTGC

Predicted PCR Product: WT = none, KO = 250 bp

PCR protocol:

20 µL PCR reaction		PCR program	
5x Phusion HF buffer	= 4 µL	1. 98°C, 2 min	
10 mM dNTPs	$= 0.4 \mu L$	2. 98°C, 10 sec	
10 μM KD2-F2:	$= 1.0 \mu L$	3. 67°C, 15 sec	
10 μM Zfp92 7bpRev:	$= 1.0 \mu L$	4. 72°C, 15 sec	
DMSO	$= 0.6 \mu L$	5. Go to 2, 40 X	
Phusion Polymerase	$= 0.2 \mu L$	6. 72°C, 7 min	
Water	$= 11.8 \mu L$	7. 4°C, ∞	
Genomic DNA (about 50 ng) = 1.0 uL			