

## File S1

Oligonucleotides used in this study:

### Primers used for cloning:

<i>pBSwg3'HAfwd</i>	CAATTAGGCAAACCATGCGAAGCTTCCATGTGGTGGTAAGTTCATTG
<i>pBS-wg5'HArev</i>	CCTTCCGGATTTCTGTTTGCCTTCGACTTGGCTGAGACT
<i>3xP3-RFPfwd</i>	CGAAGGCAAACAGAAATCCGGAAGGGGATCTAATTCAATTAGAGAC
<i>3xP3-RFPrev</i>	AGCTTCGCATGGTTTTGCCTAATTGTTTCAGATTTATGGGG

### Primers used to identify CRISPR/Cas induced mutations:

<i>ebonygenofwd</i>	GATATCGAATTCCTGCAGCCCGGGGATCCAAATCGTATTACCCTGAAACCCCTT
<i>ebonygenorev</i>	GGAGCTCCACCGCGGTGGCGGCCGCTCTAGAGATGAAGTCACCATCGCTGTTTG
<i>egenotyperev2</i>	GCATCTCCTCTGAGAGCAGATTGG
<i>egenotypefwd2</i>	TCCTGCAGCCAAACAGCGATGGTG
<i>egenotypefwd3</i>	CATCGACGCGCGCGTTTCCAGGG
<i>egenotyperev3</i>	GATAGGGGTTCTCCGGAGCAGACC
<i>segenofwd</i>	CTCGAATGACAATCGCTATCACC
<i>segenorev</i>	CGACTCTGATCGTAGTTATAATCC
<i>segenotypefwd2</i>	GTAAGCGAAGCCAACCGGCGAAGG
<i>segenotyperev2</i>	CTGCTTGGCGTCCAGGACCAGATG
<i>wggenofwd</i>	GATATCGAATTCCTGCAGCCCGGGGATCCACAAATATGAGCAGCAATATCGGC
<i>wggenorev</i>	GGAGCTCCACCGCGGTGGCGGCCGCTCTAGATCACCCAAAACCCATTTCATATCT
<i>wlsgenofwd</i>	GATATCGAATTCCTGCAGCCCGGGGATCCTCACACTGCTTTGTTGATTCCTTGA
<i>wlsgenorwv</i>	GGAGCTCCACCGCGGTGGCGGCCGCTCTAGAGCATGTCGATTGTCAACTGAAGTT

### Primers used to identify gRNA transgenes from pooled injections

<i>U63fwd1</i>	TGTATGCTATACGAAGTTATGCTAGCGGATCCTTGCTCACCTGTGATTGCTCC
<i>CFD4seqrev3</i>	GCCGAGCACAATTGTCTAGAATGC

### Primers used to diagnose insertion of the 3xP3-RFP cassette into the *wg* locus

<i>wgHRgenofwd1</i>	GAAGCGCCAAGCAATGGATGAGG
<i>wgHRgenorev1</i>	GAATTGTGCTCCGTAGACGAAGC
<i>wgHRgenofwd2</i>	GTGTCAGTCTGCTTACAGGAACG
<i>wgHRgenorev2</i>	TCGCTGGGTCCATGTACATGATGGG