

socs3a^{ihb31/+}(AB) (CZRC catalog ID: CZ93)

Nature of the mutation

The *ihb31* allele contains a deletion from bp221 to 281 of the wildtype *socs3a* coding sequence,

CGGCCTGTTTGACGCTAGCATGCGGCTGCCGTTTTACCACTTCAAGACCTT
 CAGCTCCAAG. The mutated *socs3a* codes for a protein containing 44 aa, in which only the sequence of the first 12 aa is identical to wildtype *socs3a*.

Genotyping assay:

Primers:

*ihb31*_forward: 5' TACTCATCCTGACTTTCTC 3'

*ihb31*_reverse: 5' CCAGTCTCAGCACGCAGT 3'

PCR program:

94°C 4min
 94°C 30 sec
 55°C 30 sec } 30 Cycles
 72°C 45 sec
 72°C 5min
 4°C hold

Product size: 496 bp:

Digestion of the PCR product with the *StyI* restriction enzyme:

PCR Product	Product digestion	DNA fragments after digestion (bp)
AB	unaffected	496
<i>ihb31 allele</i>	affected	435&61

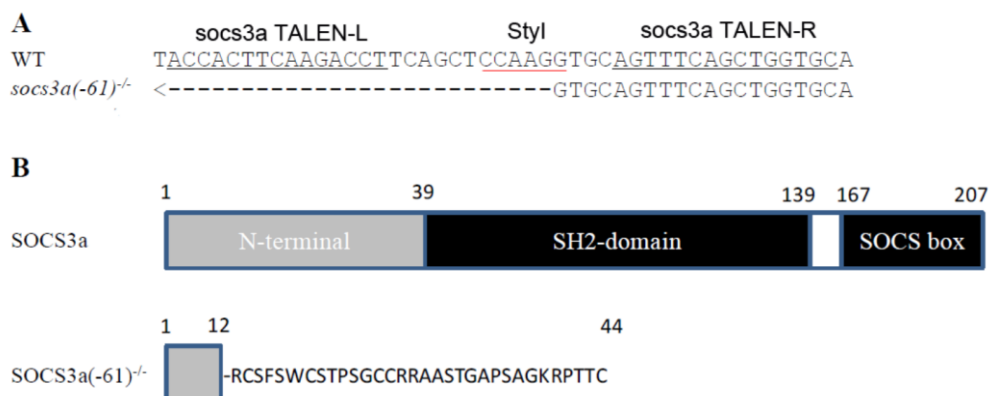


Fig. Generation of *socs3a* knockout zebrafish using TALEN