

***Socs2*^{ihb34/+} (AB) (CZRC catalog ID: CZ95)**

Nature of mutation

ihb34 allele was a mutant line, induced by the TALEN in the AB genetic background. This mutant contains a deletion from bp31 to 41 of the wild-type *socs2* coding sequence, AGCATCGAGAA. The mutated *socs2* codes for a protein containing 10 aa, and the sequence of the 10 aa is identical to wild-type *socs2*.

Genotyping assay

Primers:

Ihb34_forward: 5' GCACTCTGAATGTTCTTC 3'

Ihb34_reverse: 5' CTACACAACATGAACTCAG 3'

PCR program:

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

Product size: 490 bp:

Digestion of the PCR product with the TaqI restriction enzyme:

PCR Product	Product digestion	DNA fragments after digestion (bp)
AB	unaffected	310 and 180
<i>Ihb34 allele</i>	affected	490

The sequencing results of the parents:

