

## *insm1b*<sup>nju57/+</sup> (AB) (CZRC catalog ID: CZ 280)

### Nature of the mutation

Between 579 bp to 581 bp of the wild-type *insm1b* coding sequence, ATC, is mutated to GAGGTAA.

### Sense Strand Sequence

GTCAGCAAGGATCATGATAGGAAATATTTGAAAGGAGCCTCAACCTCGGCTCGCCC  
ATCTCTGCCGAATCTTTCCCGACTCCCGCCTCTCTCACCAGCCTGGACCATCATCTTCT  
GTTTCGCGCCGGTCGACTTGAAAATCGGCACCAGTAACAGTAACCGGAGCGGAACAGC  
CAGCGGCGCTCACGCCCCCGCCATCCAGACCGGAGCCAAAAGACCTTCCGCTGACGC  
CGCCGAGCGTAAAGTCAGCAGCAAAAAGCGCCAAGAAAACCCAAAGCCATACGCAAGC  
TCAACTTCGAGGACGAGGTAACACTACATCCCCGGTGCTGGGCCTAAAAATCAAAGAGG  
GGCCCGTGGACCTGAAGCCCCGACCGTCTTCGGGTGGCACCAACAAGCCTCTGGGAG  
AGTTCATCTGCCAGCTTTGCAAAGAAGAATACTCGGACCCGTTCTCTTGGCACAGCA  
CAAATGCTCACGGATAGTGC GGGTGGAGTACA

atcg : Forward/Reverse primer

atcg : cas9 target site

### Genotyping assay

#### Primers:

nju57\_forward: 5' GTCAGCAAGGATCATGATAG 3'

nju57\_reverse: 5' TGTACTCCACCCGCACTATC 3'

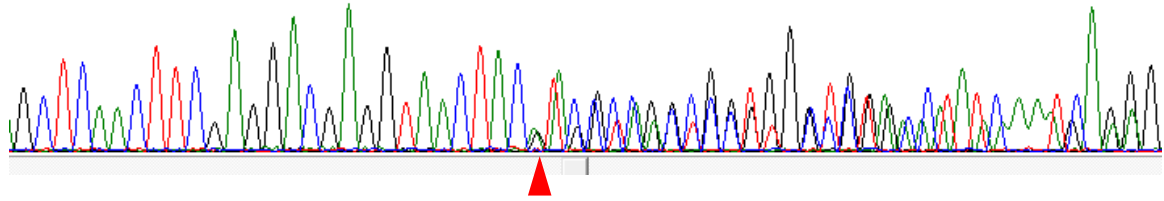
#### PCR program:

95°C 5min  
95°C 30 sec } 30 Cycles  
56°C 30 sec }  
72°C 30 sec }  
72°C 8min  
4°C hold

Product size: 490 bp

**The sequencing results of the CZ280(+/-):**

0 260 270 280 290 300 310  
 .GCTCAACTTCGAGGACGAGGTAAC TACATCCCGGCGGTGGGTGGGCCCTATCAATCAGGG



WT	GTCAGCAAGGATCATGATAGGAAATATTTGAAAAGGAGCCTCAACCTCGGCTCGCCCATC
CZ280	GTCAGCAAGGATCATGATAGGAAATATTTGAAAAGGAGCCTCAACCTCGGCTCGCCCATC
	*****
WT	TCTGCCGAATCTTTCCCGACTCCCGCCTCTCTCACCAGCCTGGACCATCATCTTCTGTTC
CZ280	TCTGCCGAATCTTTCCCGACTCCCGCCTCTCTCACCAGCCTGGACCATCATCTTCTGTTC
	*****
WT	GCGCCGGTCGACTTGAAAAATCGGCACCAGTAACAGTAACCGGAGCGGAACAGCCAGCGGC
CZ280	GCGCCGGTCGACTTGAAAAATCGGCACCAGTAACAGTAACCGGAGCGGAACAGCCAGCGGC
	*****
WT	GCTCAGCCCCCGCCATCCAGACCGGAGCCAAAAGACCTTCCGCTGACGCCCGGAGCGT
CZ280	GCTCAGCCCCCGCCATCCAGACCGGAGCCAAAAGACCTTCCGCTGACGCCCGGAGCGT
	*****
WT	AAAGTCAGCAGCAAAAGCGCCAAGAAACCCAAAGCCATACGCAAGCTCAACTTCGAGGAC
CZ280	AAAGTCAGCAGCAAAAGCGCCAAGAAACCCAAAGCCATACGCAAGCTCAACTTCGAGGAC
	*****
WT	GAGGTAAC TACA----TCCCGGTGCTGGGCCTAAAAATCAAAGAGGGGCCCGTGGACCT
CZ280	GAGGTAAC TACGAGGTAACCCCGGTGCTGGGCCTAAAAATCAAAGAGGGGCCCGTGGACCT
	*****
WT	GAAGCCCCGACCGTCTTCGGGTGGCACCAACAAGCCTCTGGGAGAGTTCATCTGCCAGCT
CZ280	GAAGCCCCGACCGTCTTCGGGTGGCACCAACAAGCCTCTGGGAGAGTTCATCTGCCAGCT
	*****
WT	TTGCAAAGAAGAA TACTCGGACCCGTTCTCTCTGGCACAGCACAAATGCTCACGGATAGT
CZ280	TTGCAAAGAAGAA TACTCGGACCCGTTCTCTCTGGCACAGCACAAATGCTCACGGATAGT
	*****
WT	GCGGTGGAGTACA
CZ280	GCGGTGGAGTACA
	*****

**Reference:**

None