

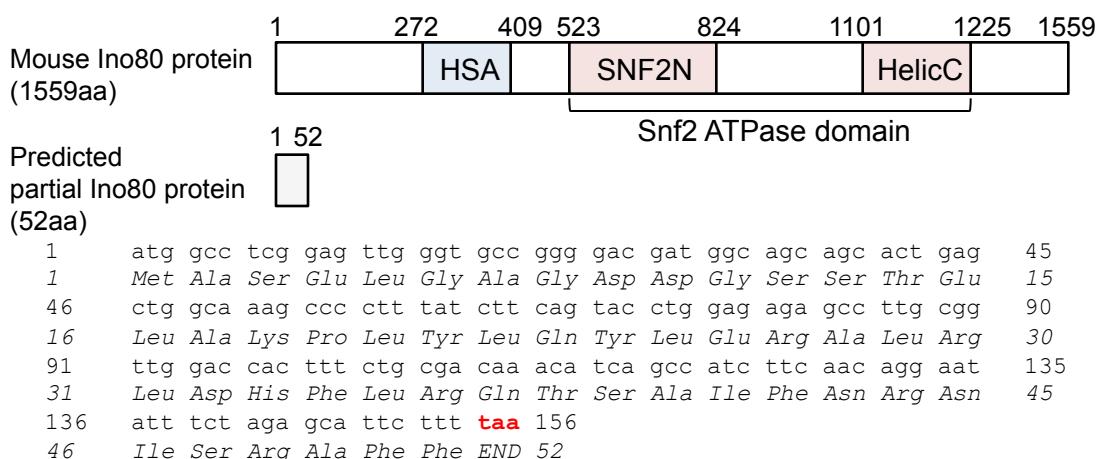
A

Ino80F/F-Ad-E	--CGACACGG TCAACCTCCA GGAGCACGTA CTTCTGTTTA AACAAAGATAC
<b>Ino80F/F-Ad-Cre</b>	<b>GTCGACACG-</b> <b>TCAACCTCCA GGAGCACGTA CTTCTGTTTA AACAAAGATAC</b>
Ino80F/F-Ad-E	CGGAGCCTCA ACCCACGGCC CCTGCTACCG TCGTCGTGAC TCGACC GTTT
<b>Ino80F/F-Ad-Cre</b>	<b>CGGAGCCTCA ACCCACGGCC CCTGCTACCG TCGTCGTGAC TCGACC GTTT</b>
Ino80F/F-Ad-E	CGGGGAAATA GAAGTCATGG ACCTCTCTCG GAACGCCAAC CTGGTGAAAG
<b>Ino80F/F-Ad-Cre</b>	<b>CGGGGAAATA GAAGTCATGG ACCTCTCTCG GAACGCCAAC CTGGTGAAAG</b>
Ino80F/F-Ad-E	ACGCTGTTTG TAGTCGGTAG AAGTTGTCCT TATAAAGATC <b>ACTACTGTCA</b>
<b>Ino80F/F-Ad-Cre</b>	<b>ACGCTGTTTG TAGTCGGTAG AAGTTGTCCT TATAAAGATC</b> -----
Ino80F/F-Ad-E	CTTCTACCTG <b>ACCTACTGTT ATTAGGGAAT AACGGACTCA GACCCCTAGG</b>
<b>Ino80F/F-Ad-Cre</b>	----- ----- ----- ----- ----- -----
Ino80F/F-Ad-E	GAATTATGTT <b>CATTTCTTC TCGGAGGTTT AAGTAACGAA CCGCTTTGGA</b>
<b>Ino80F/F-Ad-Cre</b>	----- ----- ----- ----- ----- -----
Ino80F/F-Ad-E	<b>GACGTCAGTC TTAGTTTAG ACTGTTCCCC TTAAATATAT TGAAGAGATT</b>
<b>Ino80F/F-Ad-Cre</b>	----- ----- ----- ----- ----- -----
Ino80F/F-Ad-E	<b>CAACTCTTT TCGTCTTTCA CCGATTTCTC GTAAGAAAAT TCACTACTCA</b>
<b>Ino80F/F-Ad-Cre</b>	----- ----- ----- <b>TC GTAAGAAAAT TCACTACTCA</b>
Ino80F/F-Ad-E	-GGTCACTCC GTCTAAAGTC TC--CTTCTG TTTTC
<b>Ino80F/F-Ad-Cre</b>	<b>AGGTCACTCC GTCTAGAGTC TCAACT-CTG TATAC</b>

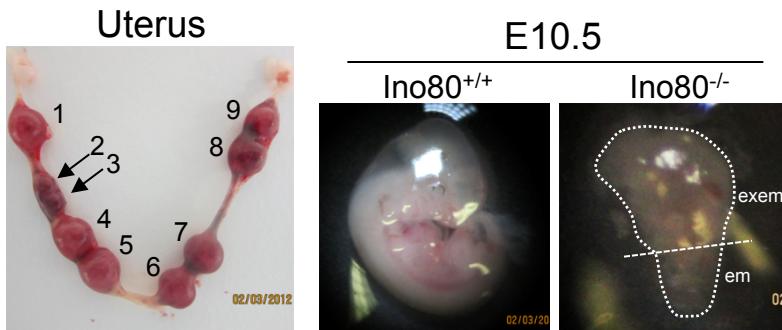
exon 3 (170bp)

exon 4 (68bp)

B



C



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**Supplementary Figure 1** Deletion of mouse *mIno80* gene. **(A)** Sequencing results of cDNAs from RNA isolated from *mIno80*<sup>F/F</sup> MEFs infected with adenovirus containing empty vector (Ad-E) or Cre recombinase (Ad-Cre). Complete deletion of exon 3 (red lettering) and exon 4 (blue lettering) are shown as dotted lines after Cre- mediated *mIno80* gene recombination. **(B)** Schematic protein domain structure of mouse mIno80 (accession number NP\_080850.2) and predicted protein sequence of the partial mIno80 peptide after *mIno80* gene targeting. The predicted 52 amino acid mIno80 peptide after deletion of the *mIno80* gene will be out of frame. The conserved domains of mIno80 are shown: HSA, HSA/PTH domain; Snf2N, Snf2 family N terminus; Helic C, helicase superfamily C terminus. Numbers refer to positions in the amino acid sequence of the mIno80 protein. **(C)** Representative image of uterus isolated from a *mIno80*<sup>+/−</sup> female mouse. Left image: numbers refer to individually implanted embryos. Embryos 2 and 3 were small and the genotyping revealed that they were *mIno80*<sup>−/−</sup>. Right images: isolated *mIno80*<sup>+/+</sup> and *mIno80*<sup>−/−</sup> embryos at E10.5 showing defective morphology in *mIno80*<sup>−/−</sup> embryos (em, embryonic structure; exem, extra-embryonic structure).