

Supporting Information

Simmet et al. 10.1073/pnas.1718833115

Exon	Wildtype	<i>OCT4KO^{tm1}</i>
1	MAGHLASDFAFSPPPGGGGDGPGGPEPGWVD PRTWMSFQGGPPGGSGIGPVVPGA EVWGLPPC PPPYDLGGGMAYCAPQVGVGPVPPGGLETPQP EGEAGAGVESNSEGASDPDCAAPAGAPKLDKEK LEPNPEE	MAGHLASDFAFSPPPGGGGDGPGGPEPGWVD PRTWMSFQGGPPGGSGIGPVVPGA EVWGLPPC PPPYDLGGGMAYCAPQVGVGPVPPGGLETPQP EGEAGAGVESNSEGASDPDCAAPAGAPKLDKEK LEPNPEE
2	SQDIKALQKDL EQFAKLLKQKRITLGYTQADVGLT LGVLF G	SQDIKALQKDL EQFAKLLKQKRITLGY <u><i>PRPMWGS</i></u> <i>PWGFSL</i>
3	KVFSQTTICRF EALQLSFKNMCKLRPLLQKWVEE ADNNENLQE	<i>ERCSAKRLSAVLR</i> LCSSVSR TCVSCGPCCRSGWRK <i>LTTTRICRR</i>
4	ICKAETLVQARKRRKRTSIENRV RGNLES MFLQCPK PTLQQISHIAQQQLGLEKD	<i>YARQRPLCRPERESGRVSRTE*</i>
5	VVRVWFCNRRQK GKRSSSDYSQRED FEAAGSPF TGGPVSSPLAPGPHFGTPCYGGPHFTLYSSVPF PEGEVFPSSVTALGSPMHAN*	

Fig. S1. Predicted amino acid sequence of OCT4 protein in wild-type and *OCT4KO^{tm1}*. Frameshift mutation in exon 2 of *OCT4KO^{tm1}* is indicated by italics and underlined proline; asterisks represent termination codons. In exon 4, a premature termination codon 91 bp upstream the following exon–exon junction was introduced by homozygous deletion of 1 bp in exon 2, which is expected to result in nonsense-mediated decay of the mRNA (20).

Table S1. Primers used for mutation screening

Primer	Sequence
OCT4 2f	5'-TTGTGGGACCTTCAAAGTAATC-3'
OCT4 2r*	5'-CTGCAGATTCTCGTTGTTGT-3'
OCT4 12f*	5'-TATGTTCTTACATATCCTCTGC-3'
ETF1 2f	5'-TTGGGTGTGAAGTGGGTTTG-3'
ETF1 2r*	5'-CTGGGCGATGTGGCTAATTT-3'
ETF1 3f*	5'-CTATGACTTGTGGAGGGATG-3'

*Primer used for Sanger sequencing.

Other Supporting Information Files

[Dataset S1 \(XLSX\)](#)