

## Supplementary information, Table S1

**Table S1** Development of ICAHCI embryos derived from haploid ESCs with single, triple or quadruple mutations.

Haploid ESC lines used for ICAHCI (the number of cell lines tested)	Passage number	No. of SC embryos transferred (2-cell)	No. of SC pups (% of transferred embryos)	No. of SC pups surviving to P2 (% of birth)	No. of pups surviving to three weeks (% of P2)	No. of pups surviving to adult (% of P2)
O48	P43-P51	430	55 (12.8)	52 (94.5)	52 (100)	50 (96.2)
$\Delta$ Dmpk-O48 (2)	P41-43	192	26 (13.5)	24 (91.6)	22 (91.6)	21 (87.5)
$\Delta$ Six5-O48 (2)	P40	156	15 (9.6)	13 (86.7)	13 (100)	12 (92.3)
$\Delta$ Mbnl1-O48 (2)	P40-P42	200	19 (9.5)	19 (100)	18 (94.7)	18 (94.7)
$\Delta$ DMWD-O48 (2)	P46-47	330	31 (9.4)	30 (96.8)	26 (86.7)	25 (83.3)
DSM-TKO-O48 (2)	P57-P62	270	34 (12.6)	32 (94.1)	30 (93.8)	30 (93.8)
DSMD-QKO-O48 (3)	P66-71	372	45 (12.1)	35 (77.8)	19 (54.3)	17 (48.6)