

Supplementary Table 1. Guide RNA sequences used in this study

	Sequence (5' → 3')	Locus in X chromosome
gRNA1	CCGGGCCAGCGGGTATGCAG	<i>S</i> locus
gRNA2	GTCATGGGGTCCCATTACCG	<i>T</i> locus

Supplementary Table 2. Location of the genomic regions used for the targeting vectors

Vector name	Location (upstream of the fluorescent protein gene)	Location (downstream of the drug resistant gene)
phEF1-EGFP-IP-Syap1	Chromosome X – NC_000086.7	Chromosome X – NC_000086.7
phEF1-hKO-IZ-Syap1	162853781 – 162856225 (2445bp)	162851428 – 162853765 (2338bp)
phEF1-EGFP-IP-Taf1	Chromosome X – NC_000086.7	Chromosome X – NC_000086.7
phEF1-hKO-IZ-Taf1	101625331 – 101626185 (855bp)	101626196 – 101627027 (832bp)

Syap1 gene: Chromosome X – NC_000086.7 162856843-162888462 (complement)
 Gm16459: Chromosome X – NC_000086.7 162844870-162845523
 Taf1 gene: Chromosome X – NC_000086.7 101527572-101601789
 Ogt: Chromosome X – NC_000086.7 101640011-101684351

Supplementary Table 3. Primer sets used in genomic PCR

Primer name	Sequence (5'→3')
a	AGGTCTCATCACGTAGCTCTGTCTTGCAACTC
b	CGCCATCACTGCCAGCTATCTCCCAC
c	ACCTCCGCGCCCCGCAACCTCCCCTTCTAC
d	GAGTTCTGGACCGACCGGCTCGGGTTCTC
e	AGGCCCTCCGCCATCTTCTGAAGCTGAATC
f	TCTCGTTGGGGTCTTTGCTCAGGGC
g	GCCCTGAGCAAAGACCCCAACGAGA
h	GGTTTCGCCACCTCTGACTTGAGCGTC
i	AGGCCCTCCGCCATCTTCTGAAGCTGAATC
j	ATCTTCTTGGCGGCCTTGTAGGTGGTCTTGAAC
k	TGAGCGTGATCAAGCC
l	GGTTTCGCCACCTCTGACTTGAGCGTC
m	CTAGAGCAAAGAAGACTGTGGGTCAGGTCCCCTC
n	CTCCCTCCTCTGTTTCTTAATGTCAGCTCATGCAG
o	ACCTCCGCGCCCCGCAACCTCCCCTTCTAC
p	ATCTTCTTGGCGGCCTTGTAGGTGGTCTTGAAC
q	CCAAACTCATCAATGTATCTTATCATGTCTGGATCTG
r	TCTCGTTGGGGTCTTTGCTCAGGGC
s	GCCCTGAGCAAAGACCCCAACGAGA
t	GGTTTCGCCACCTCTGACTTGAGCGTC

u	TGTCCAAACTCATCAATGTATCTTATCATGTCTGG
v	ATCTTCTTGGCGGCCTTGTAGGTGGTCTTGAAC
w	TGAGCGTGATCAAGCC
x	GGTTTCGCCACCTCTGACTTGAGCGTC

Supplementary Table 4. Primer sets used in real-time PCR

gene name		Sequence (5'→3')
<i>γ-tubulin</i>	Forward	CGGACCTGTCGCCAGTTT
	Reverse	TGCGGAACTGCTCCATGA
<i>Cdh1</i>	Forward	ACGTCCCCCTTTACTGCTG
	Reverse	TATCCGCGAGCTTGAGATG
<i>Cdh2</i>	Forward	ATCAACCCCATCTCAGGACA
	Reverse	CAATGTCAATGGGGTTCTCC
<i>Oct4</i>	Forward	CTGTTCCCGTCACTGCTCTG
	Reverse	AACCCCAAAGCTCCAGGTTC
<i>Nanog</i>	Forward	ACCTGAGCTATAAGCAGGTTAAGAC
	Reverse	GTGCTGAGCCCTTCTGAATCAGAC
<i>Tgfb1</i>	Forward	TGAGTGGCTGTCTTTTGACG
	Reverse	GGCTGATCCCGTTGATTTC
<i>Thy1</i>	Forward	TCGCTCTCCTGCTCTCAGTC
	Reverse	TTATTCTCATGGCGGCAGTC
<i>Fbxo15</i>	Forward	CTCATCTGTACGAAGCAGC
	Reverse	AGGTCACCGCATCCAAGTAA
<i>Esrrb</i>	Forward	TGGCAGGCAAGGATGACAGA
	Reverse	TTACATGAGGGCCGTGGGA
<i>Rex1</i>	Forward	TTGATGGCTGCGAGAAGAG
	Reverse	ACCCAGCCTGAGGACAATC
<i>Sox2</i>	Forward	AGAGAAGTTTGGAGCCCGAG
	Reverse	ATCTGGCGGAGAATAGTTGG
<i>Xist</i>	Forward	GGTTCTCTCTCCAGAAGCTAGGAAAG
	Reverse	TGGTAGATGGCATTGTGTATTATATGG