

**Supplementary Table 1. Primer sets used for genotyping experiments.**

<b>Locus</b>	<b>Name</b>	<b>Sequence (5' -&gt; 3')</b>	<b>Primer set</b>	<b>Size (bp)</b>	<b>*Position (mm9, NCBI Build 37)</b>
YY1(Exon1 del)	YY1 CoKO F YY1 genotype R	ACCTGGTCTATCGAAAGGAAGCAC TCATCCAAAGTTCGAAACCTGCTTTCC	1st primer	≈290	Chr12:108,791,900-108,795,566
Zp3-cre	Zp3 F oIMR1085	TAGGAATCACGTGGAGTGTCT GTGAAACAGCATTGCTGTCACTT	1st primer	500	Chr5:135,979,920-unknown
CoKO	Peg3-5 arm Peg3-Lar3	CCCTCAGCAGAGCTGTTTCCTGCC CAACGGGTTCTTCTGTTAGTCC	1st primer	≈510	chr7:6,630,678-6,634,867
DelKO	Peg3-5 arm Peg3-LoxR	CCCTCAGCAGAGCTGTTTCCTGCC TGAAGTATGGCGAGCTCAGACC	1st primer	≈505	chr7:6,904,937-6,912,835
Y chromosome	mSry-F mSry-R	GTCCCGTGGTGAGAGGCACAAG GCAGCTCTACTCCAGTCTTGCC	1st primer	318	chrY:1,919,207-1,919,524
Flippase	oIMR0853-F oIMR0852-R	GCGAAGAGTTTGTCTCAACC AAAGTCGCTCTGAGTTGTTAT	1st primer	≈330	Chr6:113,076,214-unknown