

#### Supplementary File 4: Genotyping protocol for *Tcte1* knockout model.

##### PCR primers:

##### First reaction:

##### Identification of wildtype and positives:

Mouse *Tcte1*-F: CGTTTAAAGAATGTATTGAGGGTTGGG

Mouse *Tcte1*-R: CTCCGTAGGCTCCTGCCAATATG

Product Size: WT: 1915 bp; MT: ~630 bp, delete~1280 bp

Annealing Temp: 59°C

##### Second reaction:

##### Identification of heterozygotes and homozygotes:

(to confirm whether the positive founders were homozygotes or not, one primer located inside the deletion sequence and other located outside)

Mouse *Tcte1*-Wt/He-F: AGCTTGCCACACCCTCAAGGTACTA

Mouse *Tcte1*-R: CTCCGTAGGCTCCTGCCAATATG

Product Size: 658 bp or 0 bp

Annealing Temp: 59°C

##### PCR mixture (per 1 sample, each volume in µl):

ddH <sub>2</sub> O	21.85
dNTP Mix	1.50
10×buffer	3.00
HS Taq	0.15
primer-F	1.00
primer-R	1.00
DNA Sample	1.50
<i>Total</i>	<i>30.00</i>

##### PCR reaction conditions:

Initial denaturation	94°C	5 min	
Denaturation	94°C	30 s	} 35cycles
Annealing	59°C	30 s	
Extension	72°C	2 min	
Additional extension	72°C	5 min	
Keeping temperature	12°C		

##### PCR result analysis – first reaction:

One band: 630 bp; heterozygotes and homozygotes

One band: 1915 bp or 0 bp; wildtype

##### PCR result analysis – second reaction:

One band: 658 bp; heterozygotes

No band: 0 bp; homozygotes