

Supplementary Table 1. Antibody information.

Protein name	Manufacture (catalogue number)	Applications (working dilution)
FITC-α-Tubulin	Sigma (F2168)	IF (1:500)
CNOT7	Santa Cruz (sc-101009)	WB (1:200)
ERK1/2	Santa Cruz (sc-94)	WB (1:1000)
p-ERK1/2	Cell Signaling (9101S)	IF (1:400)
HA	Cell Signalling (3724)	WB (1:2000)
FLAG	Sigma (F3165)	WB (1:3000)
BTG4	Abcam (ab206914)	WB (1:500)
CPEB1	Proteintech(13274-1-AP)	WB (1:500)
TPX2	Novus Biologicals(NB500-183)	WB (1:2000), IF (1:1000)
CyclinB	Cell Signaling (4138)	WB (1:500)
MYC	Cell Signaling (2272)	WB (1:1000)
CREST	Fitzgerald Industries International (70R-21494)	IF (1:100)
TOP2B	Abcam (ab109524)	IF (1:200)
DDB1	Epitomics (3821-1)	WB (1:10000)
WEE2	Proteintech(55119-1-AP)	WB (1:500)

Supplementary Table 2. Primer sequences.

Primer name	Genes targeted	Application	Sequences (5'-3')
<i>Cre-1</i>	<i>Gdf9-Cre</i>	Genotyping (420bp)	5'-AAGAACCTGATGGACATGTTTCAG-3'
<i>Cre-2</i>			5'-CTGATTCTGGCAATTTCCGG-3'
P1	N.A.	Anchor primer (C10T2) and PAT2 for PAT assay	5'-CCCCCCCCCCTT-3'
P2			5'-CAGGAAACAGCTATGACCCCCCCCCCCTT-3'
<i>Ccnb1-F</i>	<i>Ccnb1</i>	PAT assay (with P2)	5'-CCACTCCTGTCTTGTAATGC-3'
<i>Dazl-F</i>	<i>Dazl</i>	PAT assay (with P2)	5'-GAGAAGGGAGAAAGAGACAAG-3'
<i>Tex19.1-F</i>	<i>Tex19.1</i>	PAT assay (with P2)	5'-TCTGGCATGTTTCGTGTCAGTG-3'
<i>Bub1b-F</i>	<i>Bub1b</i>	PAT assay (with P2)	5'-CTGGTCTGGGGCTGCTGTGAT-3'
<i>Tpx2-F</i>	<i>Tpx2</i>	PAT assay (with P2)	5'-GGTGTGGCCTGGTTGGAGTAG-3'
<i>Rps2-F</i>	<i>Rps2</i>	Real-time PCR (165bp)	5'-GCCACCTTTGATGCCATCT-3'
<i>Rps2-R</i>			5'-TGTGGTAGCCACAGCTGGA-3'
<i>Fgf8-F</i>	<i>Fgf8</i>	Real-time PCR (180bp)	5'-CTTTTGGAAGCAGAGTCCGA-3'
<i>Fgf8-R</i>			5'-CCATGTACCAGCCCTCGTAC-3'
<i>Zp2-F</i>	<i>Zp2</i>	Real-time PCR (161bp)	5'-GCAGCTGGAGCTCTTGTTCT-3'
<i>Zp2-R</i>			5'-TCCATTGTCCAAAGTCCACA-3'
<i>Tceb1-F</i>	<i>Tceb1</i>	Real-time PCR (176bp)	5'-ATCTTCTGATGGCCATGAATTT-3'
<i>Tceb1-R</i>			5'-CCTTGTAGGTAAAATACATGCACAC-3'
<i>Padi6-F</i>	<i>Padi6</i>	Real-time PCR (231bp)	5'-AGTGTATCAGCCTGAACCGC-3'
<i>Padi6-R</i>			5'-AGGTGCCATTGATTTTGGG-3'

<i>Nobox-F</i>	<i>Nobox</i>	Real-time PCR (153bp)	5'-CATGAAGGGGACCTGAAGAA-3'
<i>Nobox-R</i>			5'-GGAAATCTCATGGCGTTTGT-3'
<i>Paip2-F</i>	<i>Paip2</i>	Real-time PCR (200bp)	5'-AGAGCGCCTATGTGTGGTGT-3'
<i>Paip2-R</i>			5'-TCTCCCACACAAGTCTTGCC-3'
<i>Polr2d-F</i>	<i>Polr2d</i>	Real-time PCR (164bp)	5'-AGTTTGAGTTGGCCTGTTTAGC-3'
<i>Polr2d-R</i>			5'-AGTGACGTCTGCGGATCAGT-3'