

Supplementary Table S1: Primer sequences used for qPCR to quantify expression and for the CHIP-experiments.

qPCR primers for cDNA

Renilla	Fw-	AGATCATGCGGAAACTGGAG
	Rev-	CGAAGGTAGGCGTTGTAGTTG
Firefly in pHRLTK	Fw-	GTGCCAACCCCTATTCTCCTTC
	Rev-	CCGCTTCCCCGACTTCCTTAG
Firefly in pmirGLO	Fw-	GGCTGAATACAAACCATCGG
	Rev-	CGCTCGTTGTAGATGTCGTTAG

CHIP primers for Reporter-based assays

<i>Nicn1</i> - Part A	Fw-	TCTGCGGCTTTCGGGTCGTG
	Rev-	CCGCTGGCGATCTCGTGCAAG
<i>Nicn1</i> - Part B	Fw-	GGCGGCAAGATCGCCGTGTA
	Rev-	GGCCCTATGGGCACACCCAC
<i>Nicn1</i> - Part C	Fw-	CGGCCGCTTCGAGCAGACAT
	Rev-	TCACTGCATTCTAGTTGTGGTTTGTCC
<i>Znf708</i> - Part A	Fw-	TCTGCGGCTTTCGGGTCGTG
	Rev-	CCGCTGGCGATCTCGTGCAAG
<i>Znf708</i> - Part B	Fw-	GGCGGCAAGATCGCCGTGTA
	Rev-	ACCATGCCCCGGCCCTACCTC
<i>Znf708</i> - Part C	Fw-	CGGCCGCTTCGAGCAGACAT
	Rev-	TCACTGCATTCTAGTTGTGGTTTGTCC

CHIP primers for endogenous targets

<i>KIF1B</i> - Part A	Fw-	AATGTGTGGGAGCCTTTTTG
	Rev-	CAGGGGTAGGAATGGAGGAT
<i>KIF1B</i> - Part B	Fw-	GTTGTGGCGGGAAAGTTAAG
	Rev-	TGATGGGAGAAAGGAGGATG
<i>KIF1B</i> - Part C	Fw-	GAGGTTGGTCTCTTGCCAAA
	Rev-	GCTGAGGGACTCCTCAAGTG
<i>UBIAD1</i> - Part A	Fw-	CATGTTTACCAGCCGGAGTT
	Rev-	GCCACTGGAAGGACAAACAT
<i>UBIAD1</i> - Part B	Fw-	GGCTGTTTTCCCTTTGTTGA
	Rev-	GGGCTTTGAGTATCCCACAA
<i>UBIAD1</i> - Part C	Fw-	CTTCCCAGCACCATTTTTGT
	Rev-	CAGAACTGATAGCCCCGATG
<i>OTUD3</i> - Part A	Fw-	ACACTGTTTTCCCTGGATGC
	Rev-	GGGAGAGTAAAAATGGCAAA
<i>OTUD3</i> - Part B	Fw-	CGGGGAGTTGCTCACATATT
	Rev-	CCAGTAAAACCCAGGCAGAG
<i>OTUD3</i> - Part C	Fw-	CCTCCACCAGCACTAAGCTC

<i>SPAG9</i> - Part A	Rev- GACGCATGCCAACACTTCTA
	Fw- TATTTCCCTTGAGGGGGTTG
<i>SPAG9</i> - Part B	Rev- AGTACGCAGCACACCATCAG
	Fw- CCCCCAAATCTGATGAAAAC
<i>SPAG9</i> - Part C	Rev- GTCCCGAGAGGGTTAAAAGC
	Fw- AACATGGCTGAACAACAGCA
<i>AHR</i> - Part A	Rev- TCTGAGCCATTTTTGGCAAT
	Fw- ACCAGGGTTACACTCTTTGTTCA
<i>AHR</i> - Part B	Rev- AAACCTCATGGGCCAAAATG
	Fw- AAGCAAAGCACCCATTCAA
<i>AHR</i> - Part C	Rev- ACTTTGCACCAAACCTTGCT
	Fw- TTGTTAAGTGCCAAACAAAGGA
<i>ATG12</i> - Part A	Rev- GAAAAACCTGGTACAGGAAAAGA
	Fw- AAAACGAATCTCCGAACGTC
<i>ATG12</i> - Part B	Rev- ACTCCATTTCCACCTGATG
	Fw- TTTGAGGTATTAGCCAGCA
<i>ATG12</i> - Part C	Rev- CTGCCTCCAAGGTTGAAAAG
	Fw- TGTGTGCCATGGGTCATCTA
<i>DES1</i> - Part A	Rev- AAGCCTGGATCCGATAAGTT
	Fw- TGCAAGTCCCCTCCAGTAAG
<i>DES1</i> - Part B	Rev- GCTGAATTGACCCCAAAGAG
	Fw- CTTTCTGGGTCACGGATGTT
<i>DES1</i> - Part C	Rev- TGCTGTTTCCTAAGCGTCCT
	Fw- CTGGCAAATCAGTGGGTCTT
<i>DPY19L4</i> - Part A	Rev- CATCAGCCATCACAGTTTGG
	Fw- TTCAATAGCCGGGCACTATC
<i>DPY19L4</i> - Part B	Rev- GTCCCAAAGGGCTGTTGTAA
	Fw- CCTGTGCTGAATTAGGTTTGG
<i>DPY19L4</i> - Part C	Rev- CCTTTTCAACTGATGCTGGA
	Fw- TGGCATCTGTATCTTGGTGCT
	Rev- TGCTGCCTATATACAGAAAGTAAA