

Supplementary Table S4. Oligonucleotides used for plasmid construction and PCR, RT-PCR, RT-qPCR and ChIP-qPCR experiments.

Oligonucleotides used for preparing the pFETCh-TRIB3 construct

PCR primers for the amplification of the 5'-homology arm:

Oligo hTRIB3-5FL-S (#942): 5'-CCTGGTCTCAAGCTGGGTCAAGGGCCAGGAACAC-3'

Oligo hTRIB3-5FL-AS (#943): 5'-CCTGGTCTCTGCTCCCGCCATACAGAACCACTTCTCTGTCTCCCTC-3'

PCR primers for the amplification of the 3'-homology arm:

Oligo hTRIB3-3FL-S (#944): 5'-CCTGAAGACATCATCACGCTCAGCTGCCAACAGTGG-3'

Oligo hTRIB3-3FL-AS (#945): 5'-CCTGAAGACATCAAGGCCTTTCACCATGGGGGCCAG-3'

Oligonucleotides used for preparing the CRISPR gRNA constructs for 3xFlag cassette insertion into the endogenous *TRIB3* locus

Oligonucleotides for hTRIB3-HDR-guide1:

Oligo hTRIB3-HDR-guide1A (#946): 5'-CACCGCAGCTGAGCGTGTAGTAGGG-3'

Oligo hTRIB3- HDR-guide1B (#947): 5'-AAACCCCTACTACACGCTCAGCTGC-3'

Oligonucleotides for hTRIB3-HDR-guide2:

Oligo hTRIB3-HDR-guide2A (#948): 5'-CACCGAGCTGAGCGTGTAGTAGGG-3'

Oligo hTRIB3-HDR-guide2B (#949): 5'-AAACCCCTACTACACGCTCAGCTC-3'

PCR primers for validation of 3xFlag cassette insertion into the endogenous *TRIB3* locus

PCR primers for 5'-region validation:

Oligo pFETCh-SEQ-P2A (#952): 5'-CAGCAGGCTGAAGTTAGTAGC-3'

Oligo hTRIB3-vali-Int3-S (#956): 5'-CCACTGGACACCCAGGAAGTAATGC-3'

PCR primers for 3'-region validation:

Oligo pFETCh-Neo-3PRI-S (#955): 5'-ACCGCTTCCTCGTGCTTTAC-3'

Oligo hTRIB3-vali-3FL-AS (#957): 5'-CAATGACCCCTGGCTTCTTCCTC-3'

Oligonucleotides used for preparing CRISPR gRNA constructs to disrupt the human *TRIB3* gene

hTRIB3-KO-guide1:

Oligo hTRIB3-KO-guide1A (#978): 5'-CACCGCAGAGGGGTGGCTCGCATC-3'

Oligo hTRIB3-KO-guide1B (#979): 5'-AAACGATGCGAGCCACCCCTCTGC-3'

hTRIB3-KO-guide2:

Oligo hTRIB3-KO-guide2A (#980): 5'-CACCGACATAGGGCCCAAGACGGG-3'

Oligo hTRIB3-KO-guide2B (#981): 5'-AAACCCCGTCTTGGGCCCTATGTC-3'

PCR primers used for validation of CRISPR/Cas9-mediated disruption of the *TRIB3* gene

Forward (#1050): 5'-CACCCCCTATAAATGTTGTGCCACGT-3'

Reverse (#1051): 5'-GCAGGTATACTCAGTGCCTGTAGGGC-3'

Oligonucleotides used for making CRISPR guide RNA construct targeting the AAVS1 locus (used as a control region) of the human genome

AAVS1-KO-guide1:

Oligo AAVS1-KO-guide1A (#1023): 5'-CACCGTTAATGTGGCTCTGGTTCT-3'

Oligo AAVS1-KO-guide1B (#1024): 5'-AAACAGAACCAGAGCCACATTAAC-3'

Primer sequences used for RT-PCR, RT-qPCR and ChIP-qPCR experiments

Method	Target	Forward primer (5'→ 3')	Reverse primer (5'→ 3')
RT-PCR	<i>XBPI</i> splicing	AGCCAAGGGGAATGAAGTGAG	CTGGGTCCAAGTTGTCCAGAA
	<i>GAPDH</i> mRNA	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG
RT-qPCR	<i>TRIB3</i> mRNA	TTTGTCTTCGCTGACCGTGA	TGCTTGTCCACAGGGAATC
	<i>ASNS</i> mRNA	ATCACTGTCGGGATGTACCC	CTTCAACAGAGTGGCAGCAA
	<i>SLC7A11</i> mRNA	GCAAGCACACTCCTCTACCA	GCACCTTGAAAGGACGATGC
	<i>MTHFD2</i> mRNA	CCATGTTACCGGCTACTCCA	GTAACAGTGGCATCACCTCCG
	<i>PSAT1</i> mRNA	CCGTGGTGATTGTCCGTGAT	ATCCACTCCAGAACCAAGCC
	<i>DDIT4</i> mRNA	GGTTTGACCGCTCCACGAG	GGTAAGCCGTGTCTTCCTCC
	<i>SES2</i> mRNA	CCACTCAGAGAAGGTCCACG	GAGTCAGGTCATGTAGCGGG
	<i>DDIT3</i> mRNA	CCTGCAAGAGGTCCTGTCTT	GTGACCTCTGCTGGTTCTGG
	<i>HSPA5</i> mRNA	GAACACAGTGGTGCCTACCAA	AGGTGACTTCAATCTGTGGGAC
	<i>HSP90B1</i> mRNA	GTTTCCCGCGAGACTCTTCA	ACGTGTTTCGATTTCGAGTGGT
	<i>GAPDH</i> mRNA	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG

ChIP-qPCR	<i>DDIT4</i> promoter	CTGCCAGGCCAGATTTTCCT	GCCATCCCGTGTTTCATCA
	<i>ASNS</i> promoter	AGGGATGTGGACAGCTTGAC	GCAGGCATGATGAAACTTCC
	<i>TRIB3</i> promoter	GGTCCCAGGTGCAGCGGATGCAG	CGGGTGATGCAAACCGGAGCTAATCAG
	<i>PSAT1</i> promoter	AATCTCGCGCGCTCCTTG	CATTGGTCGCGCTTCTGAG
	Neg. control region near <i>TRIB3</i>	GAGTCCCCAGCTGTGCTAAC	GTCCGAGTGAAAAAGGCGTA
