

Product datasheet for **KN318517LP**

Txnip Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	Txnip
Locus ID:	56338
Components:	<p>KN318517G1, Txnip gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN318517G2, Txnip gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN318517LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_001009935 , NM_023719
UniProt ID:	Q8BG60
Synonyms:	1200008J08Rik; AA682105; Hyplip1; Tbp-2; THIF; VDUP1
Summary:	<p>May act as an oxidative stress mediator by inhibiting thioredoxin activity or by limiting its bioavailability. Interacts with COPS5 and restores COPS5-induced suppression of CDKN1B stability, blocking the COPS5-mediated translocation of CDKN1B from the nucleus to the cytoplasm. Inhibits the proteasomal degradation of DDIT4, and thereby contributes to the inhibition of the mammalian target of rapamycin complex 1 (mTORC1) (By similarity). Functions as a transcriptional repressor, possibly by acting as a bridge molecule between transcription factors and corepressor complexes, and over-expression will induce G0/G1 cell cycle arrest. Required for the maturation of natural killer cells. Acts as a suppressor of tumor cell growth.[UniProtKB/Swiss-Prot Function]</p>



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Product images:

