

## Product datasheet for **MG206196**

### Txnip (NM\_023719) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Txnip (NM_023719) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Txnip
Synonyms:	1200008J08Rik; AA682105; Hyplip1; Tbp-2; THIF; VDUP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206196 representing NM_023719 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGATGTTCAAGAAGATCAAGTCTTTGAGGTGGTCTTCAACGACCCCGAGAAGGTGTACGGCAGCG  
GGGAGAAGGTGGCCGGACGGGTGATAGTGAAGTGTGGAAGTTACCCGAGTCAAAGCCGTCAGGATCCT  
GGCTTGGCGCGTGGCCAAGGTCCTGTGGATGCAAGGGTCTCAGCAGTGCAAACAGACTTTGGACTACTTG  
CGCTATGAAGACACACTTCTCCTAGAAGAGCAGCCTACAGGTGAGAACGAGATGGTGATCATGAGGCCTG  
GAAACAAATATGAGTACAAGTTCGGCTTCGAGCTTCTCAAGGGCCCTGGGAACATCCTTTAAAGGAAA  
ATATGGTTGCGTAGACTACTGGGTGAAGCTTTTCTCGATCGCCCGAGCCAGCCAACTCAAGAGGCAAAAG  
AAAAAATTGCAAGTGATGGATCTAGTGGATGTCAATACCCCTGACTTAATGGCACCAGTGTCTGCCAAAA  
AGGAGAAGAAAGTTTCTGCATGTTCAATCCTGATGGACGTGTGTGAGTCTCTGCTCGAATTGACAGAAA  
AGGATTCTGTGAAGGTGATGACATCTCCATCCATGCCGACTTTGAGAACACGTGTTCCCGAATCGTGGTC  
CCCAAAGCGGCTATTGTGGCCCGACACACTTACCTTGCCAATGGCCAGACCAAAGTGTCACTCAGAAGC  
TGTCTCGGTGAGGCAATCACATTATCTCAGGACTTGCGCATCGTGGCGTGGCAAGAGCCTCAGAGT  
GCAGAAGATCAGACCATCCATCCTGGGCTGCAACATCCTCAAAGTGAATACTCCTTGCTGATCTACGTC  
AGTGTCCCTGGCTCCAAGAAAGTCACTCTTGATCTGCCCTAGTGATTGGCAGCAGGTGGGTCTGAGCA  
GCCGGACATCCAGCATGGCCAGCCGACGAGCTCTGAGATGAGCTGGATAGACCTAAACATCCCAGATAC  
CCCAGAAGCTCCTCCTTGTATATGGACATCATTCTGAAGATCACAGACTAGAGAGCCCCACCACCCCT  
CTGCTGGACGATGTGGACGACTCTCAAGACAGCCCTATCTTTATGTACGCCCTGAGTTCAGTTTCATGC  
CCCCACCACTTACTGAGGTGGATCCGTGCGTCCTTAACAACAACAACAACAACAACAACAACGTCGA  
G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206196 representing NM\_023719  
 Red=Cloning site Green=Tags(s)

MVMFKKIKSFEVVFNDPEKVYGSGEKVAGRIVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTL DYL  
 RYEDTL L L L E E Q P T G E N E M V I M R P G N K Y E Y K F G F E L P Q G P L G T S F K G Y G C V D Y W V K A F L D R P S Q P T Q E A K  
 K N F E V M D L V D V N T P D L M A P V S A K K E K V S C M F I P D G R V S V S A R I D R K G F C E G D D I S I H A D F E N T C S R I V V  
 P K A A I V A R H T Y L A N G Q T K V F T Q K L S S V R G N H I I S G T C A S W R G K S L R V Q K I R P S I L G C N I L K V E Y S L L I Y V  
 S V P G S K K V I L D L P L V I G S R S G L S S R T S S M A S R T S S E M S W I D L N I P D T P E A P P C Y M D I I P E D H R L E S P T T P  
 L L D D V D D S Q D S P I F M Y A P E F Q F M P P P T Y T E V D P C V L N N N N N N N N N V Q

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_023719

**ORF Size:** 1188 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_023719.1](#), [NP\\_076208.1](#)

**RefSeq Size:** 2806 bp

**RefSeq ORF:** 1191 bp

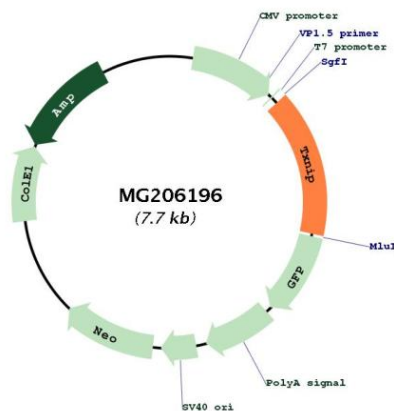
**Locus ID:** 56338

**UniProt ID:** [Q8BG60](#)

**Cytogenetics:** 3 41.93 cM

**Gene Summary:** 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]

### Product images:



Circular map for MG206196