

Product datasheet for **MC201032**

Txnip (BC011212) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txnip (BC011212) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Txnip
Synonyms:	THIF, VDUP1, mVDUP1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC011212
 GATTTCCAGAGTTTCTCCAGTTGCGGAAGACAGCTGTTATTTTTCTCTGAAAGCTCTTGGCACAGCCGG
 CAGGTTGAAACTTTCAGGCACCTTTTGGAAAAGTTGTTAGGGTTTGTGTTGAAAGCTTTCTTTACATTTTCG
 TTTGGGTTTTCAAGCCCTGACTTTACGGAGGTGAGCTCTTCGTTTGTCTTGAAGGGTTCTTAAAGATTTT
 TTTCTCTCCGGCTTTTCGTTTTCTTGAACCCACTCGGCTCAATCATGGTGATGTTCAAGAAGATCAAGT
 CTTTTGAGGTGGTCTTCAACGACCCCGAAGGTGTACGGCAGCGGGGAGAAGGTGGCCGGACGGGTAAT
 TGTGGAAGTGTGTGAAGTTACCCGAGTCAAAGCTGTCAAGATCCTGGCTTGCAGGCTGCCCCAAGGTCCTG
 TGGATGCAAGGGTCTCAGCAGTGCAAACAGACTTTGGACTACTTGCCTATGAAGACACACTTCTCCTAG
 AAGAGCAGCTACAGCAGGTGAGAACGAGATGGTGATCATGAGGCCTGGAACAAATATGAGTACAAGTT
 CGGCTTCGAGCTTCTAGAGGGCCCTGGGAACATCCTTTAAAGGAAAATATGGTTGCGTAGACTACTGG
 GTGAAGGCTTTTCTCGATCGCCAGCCAGCCAACTCAAGAGGCAAGAAAAAACTTCAAGTGATGGATC
 TAGTGGATGTCAATACCCCTGACTTAATGGCACCAGTGTCTGCCAAAAGGAGAAGAAAGTTTCTGCAT
 GTTCATTCTGATGGACGTGTGTCAGTCTCTGCTCGAATTGACCGAAAAGGATTCTGTGAAGGTGATGAC
 ATCTCCATCCATGCTGACTTTGAGAACAGTGTCCCGAATCGTGGTCCCAAGCGGCTATTGTGGCCC
 GACACACTTACCTTGCCAATGGCCAGACCAAAGTGTCTCACTCAGAAGCTGTCTCGGTGAGAGGCAATCA
 CATTATCTCAGGGACTTGCGCATCGTGGCGTGGCAAGAGCCTCAGAGTGCAAGATCAGACCATCCATC
 CTGGGCTGCAACATCCTCAAAGTCAAACTCCTTGTCTGATCTACGTCAAGTGTCCCTGGCTCCAAGAAAG
 TCATCCTTGATCTGCCCTAGTATTGGCAGCAGGTCTGGTCTGAGCAGCCGGACATCCAGCATGGCCAG
 CCGGACGAGCTCTGAGATGAGCTGGATAGACCTAAACATCCCAGATACCCAGAAGCTCCTCCTTGTCTAT
 ATGGACATCATTCTGAAGATCACAGACTAGAGAGCCCCACCACCCTCTGCTGGACGATGTGGACGACT
 CTCAAGACAGCCCTATCTTTATGTACGCCCTGAGTTCAGTTCATGCCCCACCCTTACTACTGAGGT
 GGATCCGTGCGTCTTAAACAACAACAACAACAACAACAACAGCAACGTGCAGTGACCTGCAGGAA
 TGAAGCATCTGTATTAGCGCATTTCTTTCTGCCTCTCTGCTTGAATCCAGTGTTCAGAGACTCAGTCT
 CTACAGCGGGGAACGGGTACACCCAGCCGCTGACTCCTCAAGATGGGTGGCAATCAGTAGCAGGTCTC
 CGGCTTCAAGTGGTGCAGACCAGTGCCCGACTGTGGCAAGGAGTGTGTTGCTGGGTGGATGCAGAACA
 GTCTAGAAAAATTGAGACCTGACCACTTCTCGGATGTTGGAATGAAGAATTGTTTGTGTTGACTGAG
 TCAGGGCACTGCTGACCTTCTGGCGTTGTCTTTCCAAGTTTTTTGTTTTAAAGGGAATTTTAAATTTGCT
 AAAATACCAGTAGACCATCATCTGTCCATGGGGACAGAGCCAAATTTCAAGTATGGCCAAAATTTTGT
 AAGAGGAGTGTGTTTGTGTTTTTAAAGTCAAGTGTTCCTTTTTTATATCTTTACAAAGAAAAGACCTT
 CCACGGCTGGTGAGCACGCAGCCTGTGAAATTCGGGGCAGCTGCTCAAGTTGACTTCACCCTGGGAGCA
 GTAGTAGCTGTGCCACTGACGGCCATAAAAGCCATTTTACAGCCAGTTGCACTGTGTTCTTGTAAAGC
 ATAATCAGATGGGAGAATCTGTTATTTCCCTGTAACCCCTTGAATTGATTCTAAGGTGATGTTCTTAGC
 ACTTTAGCTTGTCAAGTTTTGTTTTAGTCTCCGTTATAGATGTAAGCTCCACCAGTCTCTTAAAGGTTAAG
 CCCAGTGACTTGGAGGGTGGGGTTAGGGTCTCTATCCCTGAACATTGTAGACCCAGGCTGGCCTGAGAG
 AGAGATCCACCTGCCTCTGCCTCCTGAGTGTGCGATCAAAGGCCAGCTTGGTTATTGCTTTTGGAGCT
 TTCTCCAACGCACAGACTTGTATAATTCTAACACTAATCCTGTGAAGGGTTGTGGTTGACAGCTGGAGC
 CTGGGTGACATTCTACATTGAGATGCCCCAGCACTGATCGGGGCACAGAAGCCCCAGACCCCATTTCT
 GTCCAGTGTGGGAGAAAGTGTGCTTTCACTGTGGCCTCAGCCCTGGCTCGGAAGCTACTAAGCCTTA
 GCATTTTGTCTGTGTCAGCTCCACCTGAGAAGTGTGACGCCAGAATGTCTGCGAGCTGATGGAGGTTTC
 GGTTTTATTGTTTTGTATTTTGTATCTTTTTGTATGATTAATAAACTATATTTTCTACTTATCCAAAT
 ATATTTTACCCCAAAGTGGGGTTATCCTTTGTAAAAAAATAAAGTTTTTTAATGACAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC011212

Insert Size: 1203 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	<u>BC011212</u> , <u>AAH11212</u>
RefSeq Size:	2799 bp
RefSeq ORF:	1203 bp
Locus ID:	56338
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]