

Product datasheet for MR227021

Txnip (NM_001009935) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txnip (NM_001009935) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Txnip
Synonyms:	1200008J08Rik; AA682105; Hylip1; Tbp-2; THIF; VDUP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR227021 representing NM_001009935 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGATGTTCAAGAAGATCAAGTCTTTGAGGTGGTCTTCAACGACCCCGAGAAGGTGTACGGCAGCG
GGGAGAAGGTGGCCGGACGGGTGATAGTGAAGTGTGAAGTTACCCGAGTCAAAGCCGTCAGGATCCT
GGCTTGGCGCGTGGCCAAGTCTGTGGATGCAAGGGTCTCAGCAGTGCAAACAGACTTTGGACTACTTG
CGCTATGAAGACACACTTCTCCTAGAAGAGCAGCCTACAGGTGAGAACGAGATGGTGATCATGAGGCCTG
GAAACAAATATGAGTACAAGTTCGGCTTCGAGCTTCTCAAGGGCCCTGGGAACATCCTTTAAAGGAAA
ATATGGTTGCGTAGACTACTGGGTGAAGCTTTTCTCGATCGCCCGAGCCAGCCAACTCAAGAGGCAAAG
AAAAACTTCGAAGTGTGGATCTAGTGGATGTCAATACCCTGACTTAATGGCACCAGTGTCTGCCAAAA
AGGAGAAGAAAGTTTCTGCATGTTTCCTGATGGACGTGTGTGAGTCTCTGCTCGAATTGACAGAAA
AGGATTCTGTGAAGGTGATGACATCTCCATCCATGCCGACTTTGAGAACACGTGTCCCGAATCGTGGTC
CCCAAAGCGGCTATTGTGGCCCGACACACTTACCTTCCAATGGCCAGACCAAAGTGTTCCTCAGAAGC
TGTCCTCGGTGAGAGCAATCACATTATCTCAGGGACTTGGCATCGTGGCGTGGCAAGAGCCTCAGAGT
GCAGAAGATCAGACCATCCATCCTGGGCTGCAACATCCTCAAAGTCAATCTCCTTGCTGATCTACGTC
AGTGTCCCTGGCTCCAAGAAAGTCATCCTTGATCTGCCCTAGTGATTGGCAGCAGGTCCGGTCTGAGCA
GCCGGACATCCAGCATGGCCAGCCGGACGAGCTCTGAGATGAGCTGGATAGACCTAAACATCCCAGATAC
CCCAGAAGCTCCTTCTGCTATATGGACATCATTCTGAAGATCACAGACTAGAGAGCCCCACCACCCCT
CTGCTGGACGATGTGGACGACTCTCAAGACAGCCCTATCTTTATGTACGCCCTGAGTTCAGTTTCATGC
CCCCACCACTTACACTGAGGTGGATCCGTGCGTCTTAACAACAACAACAACAACAACAACAACGTCGA
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227021 representing NM_001009935
Red=Cloning site Green=Tags(s)

MVMFKKIKSFEVVFNDPEKVVYGSGEKVAGRIVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTLDYLR
 RYEDTLLEEPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYVWKAFLDRPSQPTQEAK
 KNFEVMDLVDVNTPDLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCGDDISIHADFENTCSRIVV
 PKAAIVARHTYLANGQTKVFTQKLSVVRGNHIIISGTCSWRGKSLRVQKIRPSILGCNIIKVEYSLLIYV
 SVPGSKKVIDLPLVIGSRSGLSRTSSMASRTSSEMSWIDLNIPDTPEAPPCYMDIIPEDHRLESPTTP
 LLDDVDDSDSPIFMYAPEFQFMPPPTYTEVDPCVLNNNNNNNNNVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

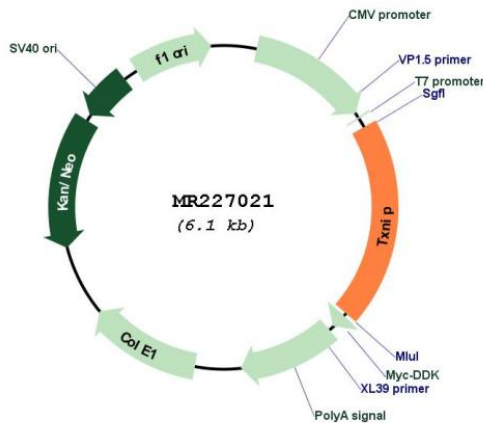
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009935

ORF Size:	1191 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:	<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 Size:	2801 bp
RefSeq ORF:	1194 bp
Locus ID:	56338
UniProt ID:	Q8BG60
Cytogenetics:	3 41.93 cM
MW:	44.8 kDa
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]