

Product datasheet for **MG206284**

Txnip (BC011212) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Txnip (BC011212) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Txnip
Synonyms:	THIF, VDUP1, mVDUP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206284 representing BC011212 Red=Cloning site Blue=ORF Green=Tags(s)

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TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC
GCCCGCATCGCC
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ATGGTGATGTTCAAGAAGATCAAGTCTTTGAGGTGGTCTTCAACGACCCCGAGAAAGTGTACGGCAGCG
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AAGAAAACTTCGAAGTATGATGATGATGTAATACCCCTGACTTAATGGCACCAGTGTCTGCCA
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CCTCTGCTGGACGATGTGGACGACTCTCAAGACAGCCCTATCTTTATGTACGCCCTGAGTTCCAGTTCA
TGCCCCCACCACTTACACTGAGGTGGATCCGTGCGTCTTAACAACAACAACAACAACAACAACAG
CAACGTGCAG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
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Protein Sequence: >MG206284 representing BC011212
 Red=Cloning site Green=Tags(s)

MVMFKKIKSFEVVFNDPEKVVYGSGEKVAGRIVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQLDYL
 RYEDTLLEEQPTAGENEMVIMRPGNKYEYKGFELPRGPLGTSFKGKYGCVDYVWKAFLDRPSQPTQEA
 KKNFEVMDLVDVNTPLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCGDDISIHADFENTCSRIV
 VPKAAIVARHTYLANGQTKVFTQKLSSVRGNHIIISGTCASWRGKSLRVQKIRPSILGCNILKVEYSLLIY
 VSVPGSKKVIDLPLVIGSRSLSSRTSSMASRTSSEMWDLNIIPDTPEAPPCYMDIIPEDHRLSPPT
 PLLDDVDDSDSPIFMYAPEFQFMPPPTYTEVDPCVLNNNNNNNNNSNVQ

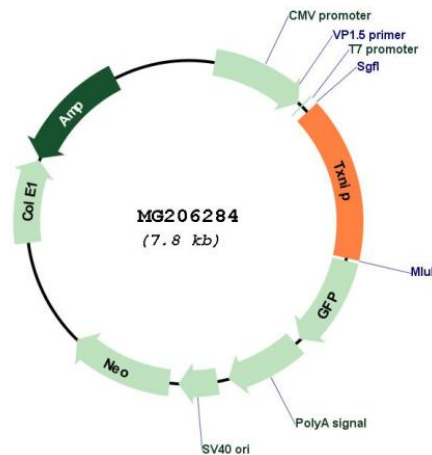
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC011212

ORF Size:	1202 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:	BC011212 , AAH11212
RefSeq Size:	2799 bp
RefSeq ORF:	1202 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]