

Product datasheet for **RR208024**

Txnip (NM_001008767) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Txnip (NM_001008767) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Txnip
Synonyms: Vdup1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR208024 representing NM_001008767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGATGTTCAAGAAGATCAAGTCTTTGAGGTGGTCTTCAACGACCCTGAGAAGGTGTATGGCAGCG
 GGGAGAAGGTGGCCGGCCGGGTGACAGTGAAGTGTGAAGTTACCGAGTCAAAGCCGTCAGGATCCT
 GGCTTGGCGGTGGCCAAGGTCTGTGGATGCAAGGGTCTCAGCAGTGCAAACAGACCTTGGACTACTTG
 CGCTATGAAGACACCCTTCTCCTAGAAGACCAGCCTACAGGTGAGAACGAGATGGTGATCATGAGACCAG
 GAAACAAATATGAGTACAAGTTCGGCTTTGAGCTTCTCAAGGGCCCTGGGAACATCCTCAAAGGGAA
 ATATGGCTGTGTAGACTACTGGGTGAAGCTTTTCTCGATCGTCCAGCCAGCCAACTCAAGAGGCAAAAG
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 AGGAGAAGAAAGTTTCTGCATGTTCAATCCTGATGGACGCGTGTGAGTCTCCGCTCGAATCGACAGAAA
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 CCCAAAGCAGCTATTGTGGCCGGCACACTTACCTTGCCAATGGCCAGACCAAAGTGCTCACTCAGAAGC
 TGTCTCAGTCAGAGGCAATCACATTATCTCAGGGACTTGCGCATCATGGCGTGGCAAGAGTCTCCGAGT
 GCAGAAGATCAGACCGTCCATTTCTGGGCTGCAACATCCTCAGAGTTGAATACTCCTTGCTGATCTATGTT
 AGTGTCCCTGGCTCCAAGAAAGTCATCCTCGATCGCCCTAGTGATTGGCAGCAGGTGGGCCTAAGCA
 GCCGGACATCCAGCATGGCTAGCCGGACAAGCTCTGAAATGAGCTGGATAGACCTAAACATCCAGACAC
 CCCAGAAGCTCCACCTTGCTATATGGACGTGATTCTGAAGATCACAGACTGGAGAGCCCCACCACCCCC
 CTGCTAGATGATGGATGATTCTCAAGACAGCCCTATCTTTATGTACGCCCCGAGTTCAGTTTATGCT
 CTCCGCCACTTACTGAGGTGGATCCCTGCGTCCTTAACAACAACAACAACAGTGCAGCTCCGCC
 ACTTACTAGAGGTGGATCCCTGCGTCCTTAACAACAACAACAACAGTGCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208024 representing NM_001008767
Red=Cloning site Green=Tags(s)

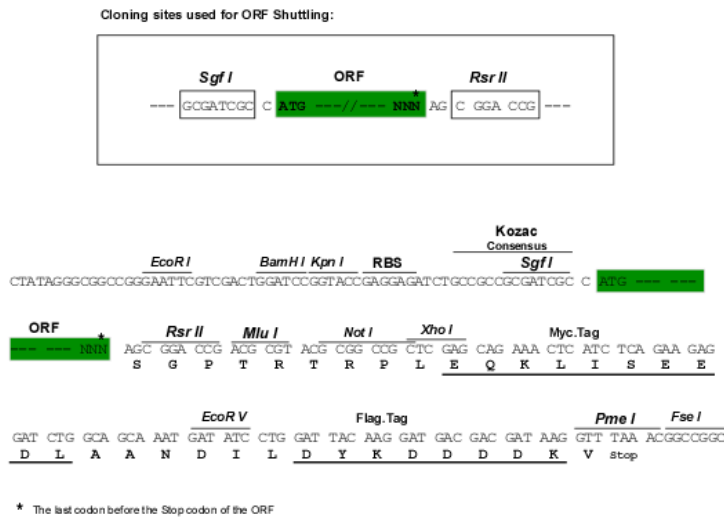
MVMFKIKSFEVVFNDPEKVIYGSGEKVAGRVTVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTLDYLR
 RYEDTLLEDQPTGENEMVIMRPGNKYEYKGFELPQGGLGTSFKGKYGCVDYVWKAFLDRPSQPTQEA
 KNFEVMDLVVNTPLMAPVSAKKEKVVSCMFIPDGRVSVSARIDRKGFCGDDISIHADFENTCSRIVV
 PKAAIVARHTYLANGQTKVLTQKLSSVRGNHIIISGTCASWRGKSLRVQKIRPSILGCNILRVEYSLLIYV
 SVPGSKVILDPLVIGSRSGLSSRTSSMASRTSSEMWDLNIPDTPPEAPPCYMDVIPEDHRLESPTTP
 LLDVDDSDSPIFMYAPEFQFMPPPTYTEVDPCVLNNNNNNVQLRPLTLRWIPASLTTTTTTC

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1617_e03.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001008767

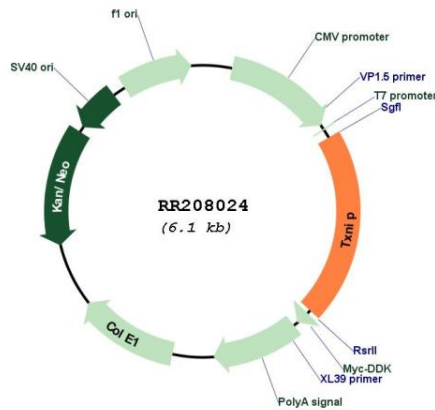
ORF Size: 1182 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	2771 bp
RefSeq ORF:	1185 bp
Locus ID:	117514
UniProt ID:	Q5M7W1
Cytogenetics:	2q34
MW:	44 kDa
Gene Summary:	regulates thioredoxin to play an important role in the preservation of cellular viability [RGD, Feb 2006]

Product images:



Circular map for RR208024