

Product datasheet for **RG210804**

TXNIP (NM_006472) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TXNIP (NM_006472) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TXNIP
Synonyms:	ARRDC6; EST01027; HHCPA78; THIF; VDUP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210804 representing NM_006472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGATGTTCAAGAAGATCAAGTCTTTGAGGTGGTCTTTAACGACCCTGAAAAGGTGTACGGCAGTG
GCGAGAAGGTGGCTGGCCGGGTGATAGTGGAGGTGTGAAGTTACTCGTGTCAAAGCCGTTAGGATCCT
GGCTTGGCGAGTGGCTAAAGTGCCTTGGATGCAGGGATCCAGCAGTGCAAACAGACTTCGGAGTACCTG
CGCTATGAAGACACGCTTCTTCTGGAAGACCAGCCAACAGGTGAGAATGAGATGGTGATCATGAGACCTG
GAAACAAATATGAGTACAAGTTCGGCTTTGAGCTTCTCAGGGCCCTCTGGGAACATCCTCAAAGGAAA
ATATGGGTGTGTAGACTACTGGGTGAAGCTTTTCTTGACCGCCGAGCCAGCCAACTCAAGAGACAAA
AAAAACTTTGAAGTAGTGATCTGGTGGATGTCAATACCCTGATTTAATGGCACCTGTGTCTGCTAAAA
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TGTCATCAGTCAGAGGCAATCATATTATCTCAGGGACATGCGCATCATGGCGTGGCAAGAGCCTTCGGGT
TCAGAAGATCAGGCCTTCTATCCTGGGCTGCAACATCCTTCGAGTTGAATATTCCTTACTGATCTATGTT
AGCGTTCCTGGATCCAAGAAGGTCACTCCTTGACCTGCCCTGGTAATTGGCAGCAGATCAGGTCTAAGCA
GCAGAACATCCAGCATGGCCAGCCGAACCAGCTCTGAGATGAGTTGGGTAGATCTGAACATCCCTGATAC
CCCAGAAGCTCCTCCCTGCTATATGGATGTCATTCTGAAGATCACCGATTGGAGAGCCCAACTCCT
CTGCTAGATGACATGGATGGCTCTCAAGACAGCCCTATCTTTATGTATGCCCTGAGTTCAGTTTCATGC
CACCACCGACTTATACTGAGGTGGATCCCTGCATCCTCAACAACAATGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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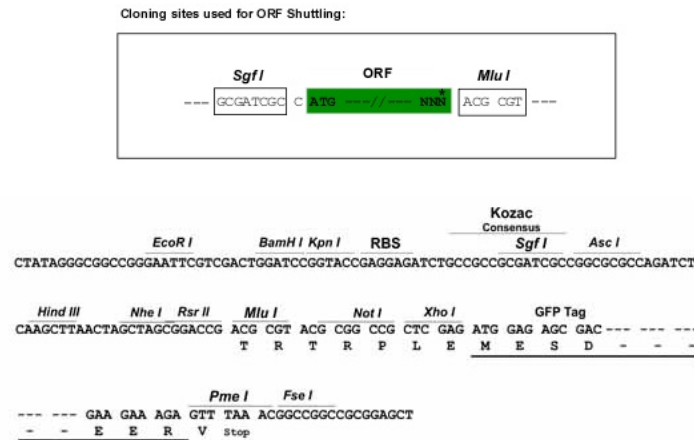
Protein Sequence: >RG210804 representing NM_006472
 Red=Cloning site Green=Tags(s)

MVMFKKIKSFEVVFNDPEKVYGSGEKVAGRIVIVEVCEVTRVKAVRILACGVAKVLMQGSQQCKQTSEYL
 RYEDTLLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYVWKAFDRPSQPTQETK
 KNFEVVDLVDVNTPLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCGEDEISIHADFENTCSRIVV
 PKAAIVARHTYLANGQTKVLTQKLSVVRGNHIIISGTCASWRGKSLRVQKIRPSILGCNILRVEYSLLIYV
 SVPGSKKVILDPLVIGSRSGLSRTSSMASRTSSEMSWDLNIPDTPPEAPPCYMDVIPEDHRLESPTTP
 LDDMDGSQDSPIFMYAPEFKFMPPTTYTEVDPCILNNNVQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006472

ORF Size: 1173 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_006472.6](#)

RefSeq Size: 2704 bp

RefSeq ORF: 1176 bp

Locus ID: 10628

UniProt ID: [Q9H3M7](#)

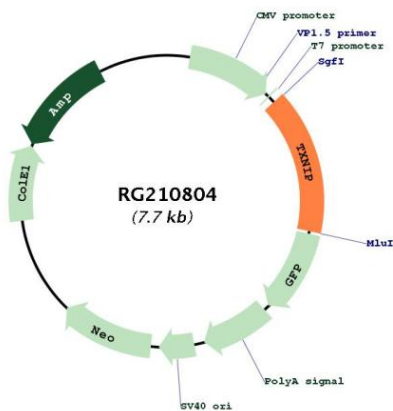
Cytogenetics: 1q21.1

Domains: arrestin

Protein Families: Druggable Genome

Gene Summary: This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RG210804