

Product datasheet for **SC322341**

Tristetraprolin (ZFP36) (NM_003407) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tristetraprolin (ZFP36) (NM_003407) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tristetraprolin
Synonyms:	G0S24; GOS24; NUP475; RNF162A; TIS11; TTP; zfp-36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322341
 CCACTCTCGGCCGACACCCCTCATGGCCAAACGTTACACCATGGATCTGACTGCCATCTA
 CGAGAGCCTCCTGTCGCTGAGCCCTGACGTGCCCGTGCCATCCGACCATGGAGGGACTGA
 GTCCAGCCAGGCTGGGGCTCCTCGGGACCCTGGAGCCTGAGCCCTCCGACTCCAGCCC
 GTCTGGGGTCACTCCCCTGCCTGGCCGCTCCACCAGCCTAGTGGAGGGCCGAGCTG
 TGGCTGGGTGCCCCACCCCTGGCTTCGACCCGCTGGCTCCCCGCTGGGCCCTGAGCT
 GTCAACCTCACCACTTCGCCCACTGCAACCTCCACCACCCCTCGCGCTACAAGACTGA
 GCTATGTCGGACCTTCTCAGAGAGTGGGCGCTGCCGCTACGGGGCCAAGTCCAGTTTGC
 CCATGGCCTGGGCGAGCTGCGCCAGGCCAATCGCCACCCCAAATACAAGACGGAACCTCTG
 TCAAAAGTTTACCTCCAGGGCCGCTGCCCTACGGCTCTCGCTGCCACTTCATCCACAA
 CCCTAGCGAAGACCTGGCGGCCCGGGCCACCCTCCTGTGCTTCGCCAGAGCATCAGCTT
 CTCGGCCTGCCCTTGCCCGCCGACCTCACCACCACCAGGCTGGCCGGCCCTTC
 CCTGTCTCCAGCTCCTTCTCGCCCTCCAGCTCCCCACCACCACCTGGGGACCTTCCACT
 GTCACCCTCTGCCTTCTGCTGCCCTGGCACCCCTGGCTCGAAGAGACCCACCCC
 AGTCTGTTGCCCTCCTGCCGAAGGGCCACTCCTATCAGCGTCTGGGGCCCTTGGGTGG
 CCTGGTTCGGACCCCTCTGTACAGTCCCTGGGATCCGACCCTGATGAATATGCCAGCAG
 CGGCAGCAGCCTGGGGGCTCTGACTCTCCCGTCTCGAGGCGGGAGTTTTTGCACCACC
 CCAGCCCGTGGCAGCCCCCGGGGACTCCCATCTTCAATCGCATCTCTGTTTCTGAGTG
 ACAAAGTGACTGCCCGGTGAGATCAGCTGGATCTCAGCGGGGAGCCACGTCTCTTGCAC
 TGGGTCTCTGCATGGACCCAGGGCTGTGGGGACTTGGGGGACAGTAATCAAGTAATCCC
 CTTTTCCAGAATGCATTAACCCACTCCCCTGACCTCACGCTGGGGCAGGTCCCAAGTGT
 GCAAGCTCAGTATTCATGATGGTGGGGATGGAGTGTCTCCGAGTTCTTGGGGAAAA
 AAAATTGTAGCATATTTAAGGGAGGCAATGAACCCTCTCCCCACCTCTCCCTGCCCAA
 ATCTGTCTCCTAGAATCTTATGTGCTGTGAATAATAGGCCTTCACTGCCCTCCAGTTTT
 TATAGACCTGAGTTCCAGTGTCTCCTGGTAACTGGAACCTCTCCTGAGGGGGAATCCTG
 GTGCTCAAATTACCCTCCAAAAGCAAGTAGCCAAAGCCGTTGCCAAACCCACCCATAAA
 TCAATGGGCCCTTATTTATGACGACTTATTTATTCTAATATGATTTTATAGTATTTAT
 ATATATTGGTCTGCTGCTTCCCTTGTATTTTCTTCTTTTTTTGTAATATTGAAAACG
 ACGATATAATTATAAGTAGACTATAATATATTTAGTAATATATATTATTACCTTAA
 AGTCTATTTTTGTGTTTTGGGCATTTTTAAATAAACAATCTGAGTGTAATAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_003407

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	NM_003407.1 , NP_003398.1
RefSeq Size:	1746 bp
RefSeq ORF:	981 bp
Locus ID:	7538
UniProt ID:	P26651
Cytogenetics:	19q13.2
Domains:	zf-CCCH
Gene Summary:	<p>Zinc-finger RNA-binding protein that destabilizes several cytoplasmic AU-rich element (ARE)-containing mRNA transcripts by promoting their poly(A) tail removal or deadenylation, and hence provide a mechanism for attenuating protein synthesis (PubMed:9703499, PubMed:10330172, PubMed:10751406, PubMed:11279239, PubMed:12115244, PubMed:12748283, PubMed:15187101, PubMed:15634918, PubMed:17030620, PubMed:16702957, PubMed:20702587, PubMed:20221403, PubMed:21775632, PubMed:27193233, PubMed:23644599, PubMed:25815583). Acts as an 3'-untranslated region (UTR) ARE mRNA-binding adapter protein to communicate signaling events to the mRNA decay machinery (PubMed:15687258, PubMed:23644599). Recruits deadenylase CNOT7 (and probably the CCR4-NOT complex) via association with CNOT1, and hence promotes ARE-mediated mRNA deadenylation (PubMed:23644599). Functions also by recruiting components of the cytoplasmic RNA decay machinery to the bound ARE-containing mRNAs (PubMed:11719186, PubMed:12748283, PubMed:15687258, PubMed:16364915). Self regulates by destabilizing its own mRNA (PubMed:15187101). Binds to 3' UTR ARE of numerous mRNAs and of its own mRNA (PubMed:10330172, PubMed:10751406, PubMed:12115244, PubMed:15187101, PubMed:15634918, PubMed:17030620, PubMed:16702957, PubMed:19188452, PubMed:20702587, PubMed:20221403, PubMed:21775632, PubMed:25815583). Plays a role in anti-inflammatory responses; suppresses tumor necrosis factor (TNF)-alpha production by stimulating ARE-mediated TNF-alpha mRNA decay and several other inflammatory ARE-containing mRNAs in interferon (IFN)-and/or lipopolysaccharide (LPS)-induced macrophages (By similarity). Plays also a role in the regulation of dendritic cell maturation at the post-transcriptional level, and hence operates as part of a negative feedback loop to limit the inflammatory response (PubMed:18367721). Promotes ARE-mediated mRNA decay of hypoxia-inducible factor HIF1A mRNA during the response of endothelial cells to hypoxia (PubMed:21775632). Positively regulates early adipogenesis of preadipocytes by promoting ARE-mediated mRNA decay of immediate early genes (IEGs) (By similarity). Negatively regulates hematopoietic/erythroid cell differentiation</p>

by promoting ARE-mediated mRNA decay of the transcription factor STAT5B mRNA (PubMed:20702587). Plays a role in maintaining skeletal muscle satellite cell quiescence by promoting ARE-mediated mRNA decay of the myogenic determination factor MYOD1 mRNA (By similarity). Associates also with and regulates the expression of non-ARE-containing target mRNAs at the post-transcriptional level, such as MHC class I mRNAs (PubMed:18367721). Participates in association with argonaute RISC catalytic components in the ARE-mediated mRNA decay mechanism; assists microRNA (miRNA) targeting ARE-containing mRNAs (PubMed:15766526). May also play a role in the regulation of cytoplasmic mRNA decapping; enhances decapping of ARE-containing RNAs, in vitro (PubMed:16364915). Involved in the delivery of target ARE-mRNAs to processing bodies (PBs) (PubMed:17369404). In addition to its cytosolic mRNA-decay function, affects nuclear pre-mRNA processing (By similarity). Negatively regulates nuclear poly(A)-binding protein PABPN1-stimulated polyadenylation activity on ARE-containing pre-mRNA during LPS-stimulated macrophages (By similarity). Also involved in the regulation of stress granule (SG) and P-body (PB) formation and fusion (By similarity). Plays a role in the regulation of keratinocyte proliferation, differentiation and apoptosis (PubMed:27182009). Plays a role as a tumor suppressor by inhibiting cell proliferation in breast cancer cells (PubMed:26926077).[UniProtKB/Swiss-Prot Function]