

Product datasheet for **SC310984**

TRF4 2 (PAPD5) (NM_001040284) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRF4 2 (PAPD5) (NM_001040284) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRF4 2
Synonyms:	PAPD5; TRF4-2; TUT3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001040284 edited
 CCGCGTCTCGTCCCCGCACCCTTCGGCCGCCGTCCCCGCCGCCGATCCAGCCGATTCGG
 CCTCGGGCAGCAGCAACAAGAGGAAGCGCGACAACAAGGCCAGCACGATGGACTCAACT
 ACAGCCTGCTGCAGCCCAGCGGAGGGCGGGCCGCGGGGGCGGCCGAGCAGACGGCGGGC
 GGGTCGTGTACAGCGGGACCCCGTGGAAACGGAGGAACTACAACCAGGGAGTCGTGGGTC
 TGCATGAAGAAATCAGTGATTTTTATGAATACATGTCTCCAAGACCTGAGGAGGAGAAGA
 TGCGGATGGAGGTGGTGAACAGGATCGAGAGTGAATTAAGGAGCTCTGGCCAGCGCTG
 ACGTCCAGATATTTGGAAGTTTTAAAACCTGGACTTTATTTACCTACTAGTGACATCGACC
 TAGTGGTGTGGGAAGTGGGAGAACCTACCCCTCTGGACTCTGGAGAAGCTCTTCGGA
 AACACAAAGTCGCAGATGAGGATTCGGTAAAAGTTTTAGACAAAGCAACTGTACCTATTA
 TAAATTAACAGATTCCTTTACTGAAGTAAAAGTTGATATCAGCTTTAATGTACAGAATG
 GCGTGAGAGCAGCTGACCTCATCAAAGATTTTACCAAGAAATATCCTGTATTGCCATACT
 TGGTTTTAGTATTGAAACAATTCCTATTGCAGAGGGACCTTAATGAAGTATTTACAGGTG
 GAATTGGTTCTTATAGTCTCTTTTTAATGGCAGTCAGTTTCTTCAGTTACATCCCAGGG
 AAGATGCTTGCATCCCCAATACAACTATGGTGTCTCTTAATAGAATTTTTTTGAATTAT
 ATGGACGACACTTCAATATTTAAAGACTGGCATCCGGATAAAGGATGGTGGTTCATATG
 TGGCCAAAGATGAAGTACAGAAAAATATGCTAGATGGCTACAGGCCATCAATGCTTTATA
 TCGAAGATCCTTTACAACCAGGTAACGATGTTGGAAGGAGTTCATATGGGGCCATGCAAG
 TGAAGCAGGCCTTTGATTATGCCTACGTTGTTTTGAGTCATGCTGTATCACCATAGCAA
 AGTACTATCCCAACAATGAAACAGAAAGCATACTAGGTAGAATAATTAGAGTAACAGATG
 AAGTTGCCACATATAGAGATTGGATATCAAAGCAGTGGGGCTTGAAGAATAGACCTGAGC
 CTTTATGCAATGGAATGGTGTACCTTGATAGTAGATACTCAGCAGTTAGATAAATGTA
 ATAATAATCTATCTGAAGAAAAATGAAGCCCTTGGAAAAATGTAGAAGTAAAACCTCGGAAT
 CTCTTAGTAAACACTCTTCAAACCTTTCATCAGGTCCAGTGTCTGCTCTTCTGCCACAC
 AGTCCAGCTCTAGTGATGTAGATTCCGATGCAACACCATGCAAAAACCCGAAACAGCTGC
 TTTGCCGTCCGTCCTGGAACCGAGTAGGGTCGCAAGATGTATCCTTGGAGTCTCTC
 AGGCAGTTGGGAAAAATGCAAAGCACCCAAACCACTAACACATCCAACAGCACCAACAAAT
 CTCAGCATGGATCAGCAAGGCTCTTTCGTTCTTCCAGCAAAGGCTTCCAAGGTACAACCT
 AAACAAGCCATGGTTCCTTGATGACAAACAAACAACATCAAGGCAAAATCCAATAATCAGT
 ATTACCATGGCAAAAAGAGGAAACACAAGAGGGACGCGCCCTCTCAGACCTCTGTAGAT
 AGTCAGCGCTGCGCGGTGGACTGTCTTCTGTGCAATGATCTCATGCTCAGGACAGTTG
 CGCAGGGACTCCTGGGAGATATTCAGGAGCCTCACACTGTTCCAGACGTTGACTTAGCAAC
 TGCGTTTTTTCCAGCTCGCCACAGAATGGATCATGAAGACTGCAAACTGCAAAAAAAAC
 AAAACAAAACAAAAAAA

Restriction Sites: NotI-NotI

ACCN: NM_001040284

Insert Size: 1900 bp

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: It is not a variant.

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_001040284.1](#), [NP_001035374.1](#)

RefSeq Size: 8114 bp

RefSeq ORF: 1470 bp

Locus ID: 64282

UniProt ID: [Q8NDF8](#)

Cytogenetics: 16q12.1

Gene Summary: Terminal nucleotidyltransferase that catalyzes preferentially the transfer of ATP and GTP on RNA 3' poly(A) tail creating a heterogeneous 3' poly(A) tail leading to mRNAs stabilization by protecting mRNAs from active deadenylation (PubMed:21788334, PubMed:30026317). Also functions as a catalytic subunit of a TRAMP-like complex which has a poly(A) RNA polymerase activity and is involved in a post-transcriptional quality control mechanism. Polyadenylation with short oligo(A) tails is required for the degradative activity of the exosome on several of its nuclear RNA substrates. Doesn't need a cofactor for polyadenylation activity (in vitro) (PubMed:21788334, PubMed:21855801). Required for cytoplasmic polyadenylation of mRNAs involved in carbohydrate metabolism, including the glucose transporter SLC2A1/GLUT1 (PubMed:28383716). Plays a role in replication-dependent histone mRNA degradation, probably through terminal uridylation of mature histone mRNAs. May play a role in sister chromatid cohesion (PubMed:18172165). Mediates 3' adenylation of the microRNA MIR21 followed by its 3'-to-5' trimming by the exoribonuclease PARN leading to degradation (PubMed:25049417). Mediates 3' adenylation of H/ACA box snoRNAs (small nucleolar RNAs) followed by its 3'-to-5' trimming by the exoribonuclease PARN which enhances snoRNA stability and maturation (PubMed:22442037).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.