

Product datasheet for **RG210285**

TRF41 (PAPD7) (NM_006999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRF41 (PAPD7) (NM_006999) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRF41
Synonyms:	LAK-1; LAK1; PAPD7; POLK; POLS; TRF4; TRF4-1; TRF41; TUTASE5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210285 representing NM_006999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTTGTCTGAAGAAGCAGCTATGAGAAGAGAGTGGTAAACGGATCGAACTGTGGTAAAG
 ACCTTTGGCCGACGGCTGATGTACAGATATTTGGCAGCTTTAGTACAGGCTTTATCTTCCAAGTACGCA
 CATAGACCTGGTGGTCTTCGGAATGGGAGCGTCTCTTTACAGCTGTGGAGCAAGCCCTGCGGAAG
 CACAACGTGGCTGAGCCGTGTTCCATCAAAGTCTTGACAAGGCTACGGTACCAATAATAAAGCTCACAG
 ATCAGGAGACTGAAGTAAAGTTGACATCAGCTTAAACATGGAGACGGCGTCCGGGACGGAGTTCAT
 CAAGAATTACATGAAGAAATATTCATTGCTGCCTACTTGATTTTAGTATTGAAACAGTTCCTTCTGCAG
 AGGGACCTGAATGAAGTTTTACAGGTGGAATTAGCTCATACAGCCTAATTTTAAAGCCATTAGCTTTC
 TACAGTTGCATCCAAGAATTGATGCCCGGAGAGCTGATGAAAACCTTGAATGCTTCTTGAGAATTTTT
 TGAAGTCTATGGGAGAAATTTAATTACTTGAAAACCGGTATTAGAATCAAAGAAGGAGGTGCCTATATC
 GCCAAAGAGGAGATCATGAAAGCCATGACCAGCGGTACAGACCGTCGATGCTGTGCATTGAGGACCCCC
 TGCTGCCAGGGAATGACGTTGGCCGGAGCTCCTATGGCGCCATGCAGGTGAAGCAGGTCTTCGATTATGC
 CTACATAGTGTCTAGCCATGCCGTGTACCCGCTGGCCAGGTCTTATCCAACAGAGACGCCGAAAGTACT
 TTAGGAAGAATCATCAAAGTAACTCAGGAGGTGATTGACTACCGGAGGTGGATCAAAGAGAAGTGGGGCA
 GCAAAGCCACCCGTCGCCAGGCATGGACAGCAGGATCAAGATCAAAGAGCGAATAGCCACATGCAATGG
 GGAGCAGACGCAGAACCGAGAGCCCGAGTCTCCCTATGGCCAGCGCTTACTTTGTCGCTGTCCAGCCCC
 CAGCTCCTGTCTTCAGGCTCCTCGGCCTCTTCTGTGTCTTCACTTCTGGGAGTGACGTTGATTCAGACA
 CACCGCCCTGCACAACGCCAGTGTTCACAGTTCAGTCTGCAAGCGCCAGCTCCTCTCATGGCCCGGCT
 ACCCACCGCCTTGCCAATGCCAGTGGCAACCTCAGCCACCCTTCCAGAACACTGATCATGACAACC
 AACAAATCAGACCAGGTTTACTATACCTCCACCGACCCTAGGGGTTGCTCCTGTTCTTGCAGACAAGCTG
 GTGTAGAAGGAACTGCGTCTTTGAAAGCCGTCCACCACATGTCTTCCCGGCCATTCCCTCAGCGTCCCC
 CAACCCGCTCTCGAGCCCTCATCTGTATCATAAGCAGCACAACGGCATGAAACTGTCCATGAAGGGCTCT
 CACGGCCACACCAAGGCGGGCTACAGCTCTGTGGGTAGCGGAGGTGTGCGGCCCCCTGTGGGCAACA
 GGGGACACCACAGTATAACCGCACCGGCTGGAGGAGGAAAAACACACACACACGGGACAGTCTGCC
 CGTGAGCCTCAGCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210285 representing NM_006999
 Red=Cloning site Green=Tags(s)

MSPCPEEAAMRREVVKRIETVVKDLWPTADVQIFGSFSTGLYLPTSDIDLVVFGKWERPPLQLLEQALRK
 HNVAEPCSIKVLDKATVPIIKLTDQETEVKVDISFNMETGVRAAEFIKKNYMKYSLLPYLILVLKQFLLQ
 RDLNEVFTGGISSYSLILMAISFLQLHPRIDARRADENLGMILLVEFFELYGRNFNYLKTGIRIKEGGAYI
 AKEEIMKAMTSGYRPSMLCIEDPLLPNDVGRSSYGAMQVKQVFDYAYIVL SHAVSPLARSYPNRDAEST
 LGRIIKVTQEVIDYRRWIKEKWSKAHPSGMDSRRIKIKERIA TCNQEQTQNPESPYQQLTSLSSP
 QLLSSGSSASSVSSLSGSDVSDTTPCTTPSVYQFSLQAPAPLMAGLPTALPMPSGKPQPTTSRTLIMTT
 NNQTRFTIPPPTLGVAPVPCRQAGVEGTASLKAVHHMSSPAIPASPNPLSSPHLYHKQHNGMKLSMKGS
 HGHTQGGYSSVSGGVRPPVGNRHHQYNRGTGWRKKHHTHTRDSLPLVSLSR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006999

ORF Size: 1626 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.

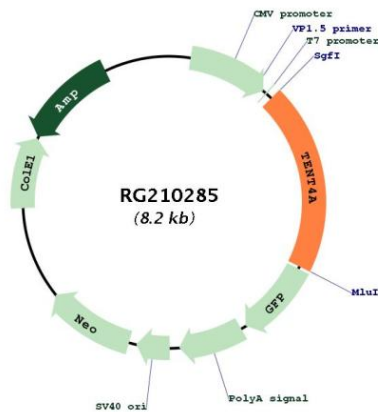
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_006999.2](#)
RefSeq Size: 3861 bp
RefSeq ORF: 2379 bp
Locus ID: 11044
UniProt ID: [Q5XG87](#)
Cytogenetics: 5p15.31
Domains: PAP_assoc, NTP_transf_2
Protein Pathways: RNA degradation

Gene Summary: The protein encoded by this gene is a DNA polymerase that is likely involved in DNA repair. In addition, the encoded protein may be required for sister chromatid adhesion. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG210285