

Product datasheet for **RG230251**

TRF41 (PAPD7) (NM_001171805) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRF41 (PAPD7) (NM_001171805) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TENT4A
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:

>RG230251 representing NM_001171805
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTTGTCTGAAGAAGCAGCTATGAGAAGAGAGTGGTAAACGGATCGAACTGTGGTAAAG
 ACCTTTGGCCGACGGCTGATGTACAGATATTTGGCAGCTTTAGTACAGGCTTTATCTTCCAAGTACGCA
 CATAGACCTGGTGGTCTTCGGAATGGGAGCGTCTCTTTACAGCTGCTGGAGCAAGCCCTGCGGAAG
 CACAACGTGGCTGAGCCGTGTTCCATCAAAGTCTTGACAAGGCTACGGTACCAATAATAAAGCTCACAG
 ATCAGGAGACTGAAGTAAAGTTGACATCAGCTTTAACAATGGAGACGGCGTCCGGGACGCGGATTCAT
 CAAGAATTACATGAAGAAATATTCATTGCTGCCTTACTTGATTTTAGTATTGAAACAGTTCCTTCTGCAG
 AGGGACCTGAATGAAGTTTTACAGGTGGAATTAGCTCATACAGCCTAATTTTAAAGCCATTAGCTTTC
 TACAGTTGCATCCAAGAATTGATGCCCGGAGAGCTGATGAAAACCTTGAATGCTTCTTGAGAATTTTT
 TGAAGTCTATGGGAGAAATTTAATTACTTGAAAACCGGTATTAGAATCAAAGAAGGAGGTGCCTATATC
 GCCAAAGAGGAGATCATGAAAGCCATGACCAGCGGTACAGACCGTTCGATGCTGTGCATTGAGGACCC
 TGCTGCCAGGGAATGACGTTGGCCGAGCTCCTATGGCGCCATGCAGGTGAAGCAGGTCTTCGATTATGC
 CTACATAGTGCTCAGCCATGCTGTGTACCCGCTGGCCAGGTCTTATCCAACAGAGACGCCGAAAGTACT
 TTAGGAAGAATCATCAAAGTAACTCAGGAGGTGATTGACTACCGGAGGTGGATCAAAGAGAAGTGGGGCA
 GCAAAGCCACCCGTCGCCAGGCATGGACAGCAGGATCAAGATCAAAGAGCGAATAGCCACATGCAATGG
 GGAGCAGACGCAGAACCAGAGCCCGAGTCTCCCTATGGCCAGCGCTTACTTTGTCGCTGCCAGCCCC
 CAGCTCCTGTCTCAGGCTCCTCGGCCTCTTCTGTGTCTTCACTTCTGGGAGTGACGTTGATTCAGACA
 CACCCGCTGCACAACGCCAGTGTTCACAGTTCAGTCTGCAAGCGCCAGCTCCTCTCATGGCCGGCTT
 ACCCACCCTTGCCTAATGCCAGTGGCAAACCTCAGCCACCCTTCCAGAACACTGATCATGACAACC
 AACAAATCAGACCAGGTTTACTATACCTCCACCGACCCTAGGGGTTGCTCCTGTTCTTGCAGACAAGCTG
 GTGTAGAAGGAACTGCGTCTTTGAAAGCGTCCACCACATGTCTTCCCGGCCATTCCCTCAGCGTCCCC
 CAACCCGCTCTCGAGCCCTCATCTGTATCATAAGCACAACGGCATGAAACTGTCCATGAAGGGCTCTCAC
 GGCCACACCCAAGGCGCGGCTACAGCTCTGTGGGTAGCGGAGGTGTGCCGCCCTGTGGGCAACAGGG
 GACACCACAGTATAACCGCACCAGGCTGGAGGAGGAAAAACACACACACACACGGGACAGTCTGCCCGT
 GAGCCTCAGCAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230251 representing NM_001171805
 Red=Cloning site Green=Tags(s)

MSPCPEEAAMRREVVKRIETVVKDLWPTADVQIFGSFSTGLYLPTSDIDLVVFGKWERPPLQLLEQALRK
 HNVAEPCSIKVLDKATVPIIKLTDQETEVKVDISFNMETGVRAAEFIKKNYMKYSLLPYLILVLKQFLLQ
 RDLNEVFTGGISSYSLILMAISFLQLHPRIDARRADENLGMILLVEFFELYGRNFNYLKTGIRIKEGGAYI
 AKEEIMKAMTSGYRPSMLCIEDPLLPNDVGRSSYGAMQVKQVFDYAYIVL SHAVSPLARSYPNRDAEST
 LGRIIKVTQEVIDYRRWIKEKWSKAHPSGMDSRRIKIKERIAICNGEQTNREPESPYQQLTSLSSP
 QLLSSGSSASSVSSLSGSDVSDTPPCTTPSVYQFSLQAPAPLMAGLPTALPMPGKQPPTTSRTLIMTT
 NNQTRFTIPPPTLGVAPVPCRQAGVEGTASLKAVHHMSSPAIPASPNLSSPHLYHKHNGMKLSMKGSH
 GHTQGGYSSVSGGVRPPVGNRGHHQYNRGTGWRKHKHTHTRDSLPLVSLSR

TRTRPLE - GFP Tag - V

Restriction Sites:

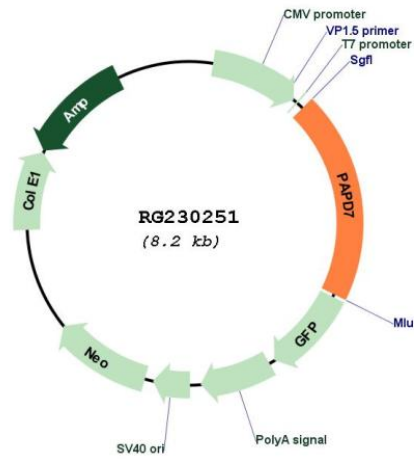
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN:	NM_001171805
ORF Size:	1623 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:	<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_001171805.1 , NP_001165276.1
RefSeq Size:	3868 bp
RefSeq ORF:	2376 bp
Locus ID:	11044
UniProt ID:	Q5XG87
Cytogenetics:	5p15.31
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]