

Product datasheet for **MR208654**

Papd7 (NM_001169131) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Papd7 (NM_001169131) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Papd7 |
| Synonyms: | LAK-1; POLK; Pols; TRF4; TRF4-1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR208654 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTGTCTGAAGAAGCAGCCATGAGAAGGGAGGTGGTAAACGGATCGAAACTGTGGTAAAAG
 ACCTCTGGCCACAGCTGATGTGCAGATATTTGGCAGCTTAGTACAGGCCTCTATCTTCCAACAAGTGA
 CATAGACCTGGTTGTCTTTGAAAAGTGGGAACGCCCTCCATTACAGTTGTTGGAACAAGCCCTCCGGAAG
 CACAACGTGGCTGAGCCGTGCTCCATCAAAGTTCTTGACAAAGCTACAGTGCCCATATAAAGCTCACAG
 ATCAGGAGACTGAAGTTAAAGTCGACATCAGCTTAAACATGGAGACTGGCGTGCGGGCGGCAGAGTTCAT
 CAAGAATTACATGAAGAAGTACTCGCTACTGCCATACTTGATTTTAGTGTGAAACAGTTCCTGCTGCAG
 AGGGACCTGAATGAGGTCTTACAGGGGGATCAGCTCTACAGCCTCATCCTAATGGCCATCAGCTTTC
 TGCAGTTACATCCAAGAATCGATGCCCGGAGAGCTGATGAAAACCTGGGAATGCTTCTTGAGAATTTTT
 TGAACCTTATGGAAGAAATTTAATTACTTAAAACTGGTATTAGAATAAAAAGAAGGAGGTGCCATATC
 GCCAAAGAAGAGATCATGAAAGCCATGACCAGTGGGTACCGACCATCGATGCTGTGCATTGAGGACCCCT
 TACTGCCTGGAATGATGTTGGACGGAGTTCCTATGGGGCCATGCAGGTGAAGCAGGTGTTTGACTACGC
 TTACATTTGTGCTCAGCCACGCTGTGTACCCGCTCGCCAGGTCTTACCCCAACAGGGATTCTGAAAGTACT
 TTAGGAAGAATCATCAAAGTCACCCAGGAAGTGATCGACTACCGGAGCGGATCAAAGAAAAGTGGGGTA
 GCAGAATCCTCCCGTCTCCAGACCTTGACAACAGGATTAAGATAAAGGAGAGAATTACCAGTGCATGG
 GGAGCAGATGCAGAGCCGGGAGCCAGCTCCCTTACACCCAGCGCTGACTCTGTCCCTGTCCAGTCCC
 CAGCTGCTGTCTTCAAGCTCTTCTGCTTCTGTGTCTCACTTCTGGAAGTGACATTGACTCCGACA
 CACCGCCCTGCACCACCCAGTGTTCAGTTCAGCCTGCAAGCACCCACTACCCTGATGGCCAGCCT
 GCCCACAGCCTTGCCAATGCCAGCAGCAAACCCAGCCTGCTGCTTCCAGAACGTTGATCATGACAACA
 AACAAACAGACCAGGGTACTATCCCTCCACCAACCCTCGGAGTCGCCCTGTTCTTGCAGACAGGCTG
 GTGTCGACGGAACCACATCTTTGAAGGCTGTTACAGTGTAACTTCCCCAGCCATTCCCTCGGCATCCCC
 CAACCCACTGTCTAGTCTCATCTGTATCACAGCAGCACAATGGCATGAAACTGTCCATGAAAGGCTCC
 CACAACCACACTCAGGGTGGCGGTACAGCTCTGTGGCAGTGGAGCTGTGAGGCCTCTGTAGGCAACC
 GAGGACATCATCAGTACAACCGCACCGGCTGGAGGAGAAAAAAGCACGCACACAAGGGACAGCCTGCC
 CGTGAGTCTCAGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208654 protein sequence
 Red=Cloning site Green=Tags(s)

MSPCPPEEAAMRREVVKRIETVVKDLWPTADVQIFGSFSTGLYLPTSDIDLVVFGKWERPPLQLLEQALRK
 HNVAEPCSIKVLDKATVPIIKLTDQETEVKVDISFNMETGVRAAEFIKNYMKYSLLPYLILVLKQFLLQ
 RDLNEVFTGGISSYSLILMAISFLQLHPRIDARRADENLGMILLVEFFELYGRNFNYLKTGIRIKEGGAYI
 AKEEIMKAMTSGYRPSMLCIEDPLLPNDVGRSSYGAMQVKQVFDYAYIVL SHAVSPLARSYPNRDSEST
 LGRIIKVTQEVIDYRRRIKEKWSRILPSPDLNRIKIKERITTCNQEQQMSREPSSPYTQRLTLSSP
 QLLSSGSSASSVSSLSGSDIDSPTTPCTTPSVYQFSLQAPTTLMASLPTALPMPSSKQPAAASRTLIMTT
 NNQTRVTIPPPTLGVAPVPCRQAGVDGTTSLKAVHSVTSIPAIPASPNPLSSPHLYHKQHNGMKLSMKGS
 HNHTQGGYSSVSGAVRPPVGNRGHHQYNRTGWRRKKHAHTRDSLPLVLSLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001169131

ORF Size: 1629 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_001169131.1](#), [NP_001162602.1](#)

RefSeq Size: 3994 bp

RefSeq ORF: 1626 bp

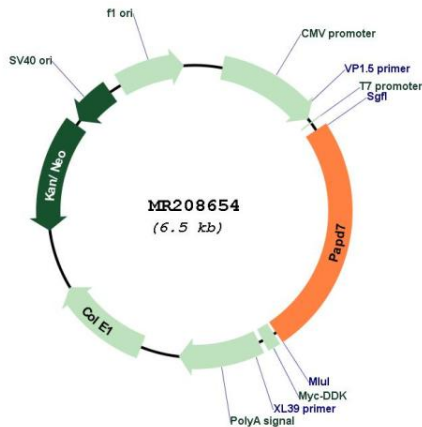
Locus ID: 210106

Cytogenetics: 13 35.55 cM

MW: 60 kDa

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 (By similarity). 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. Has no terminal uridylyltransferase activity, and does not play a role in replication-dependent histone mRNA degradation via uridylation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208654