

Product datasheet for **RG223182**

DAP3 (NM_033657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP3 (NM_033657) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAP3
Synonyms:	bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223182 representing NM_033657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGGCGTTTTTACACA
TGGGGACCCAGGCTCGCCAAAGCATTGTGCTCACCTAGATAACCAGGTTCCAGTTGAGAGTCCGAGAGC
TATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAACATC
TCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCTCCTCGCTTTGTGATGCAGGTGAAGACAT
TCAGTGAAGCTTGCCTGATGGTAAGGAAACCAGCCCTAGAAGTCTGCATTACCTGAAAAACACCAGTTT
TGCTTATCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCAT
GTTATTCAATTTCTGTGAAAAACAGGACTGGCTGATACTACATATTTCCAGATGCTCATCTTTGGGTGAAAA
ATTGTCGGGATCTTCTGCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTG
GCTGAAGAATTTCAAACACTACAATGAGCGCTTCTGAACCAGATAAAAAGTTCAAGAGAAGTATGTCTGG
AATAAGAGAGAAAGCACTGAGAAAGGGAGTCTCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGA
GGAACGCCACAGATGCAGTTGGAATTGTGCTGAAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTCA
CCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGGGAAGAACCCTCTGAAAAGAGAAGATAAAAAGC
CGGATTGCCCCGAGGAATTAGCACTTGTTCACAACCTTGAGGAAAATGATGAAAAATGATTGGCATGGAG
GCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCCCGGAAAGCCTATCTGCCCCAGGA
GTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCCCATCCTGGTTTCCAACATAACCCA
AAGGAATTTGAAAGTTGTATTAGTATTATTTGGAAAACAATTGGCTTCAACATGAGAAAGCTCCTACAG
AAGAAGGGAAAAAAGAGCTGCTGTTCTAAGTAACGCGAACCCCTCGCTGCTGGAGCGGCACTGTGCCTA
CCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223182 representing NM_033657
 Red=Cloning site Green=Tags(s)

MMLKGITRLISRIHKLDPGRFLHMGQTARQSIAAHLDNQVPVESPRAISRNTNENDPAKHGDQHEGQHYNI
 SPQDLETVPFHGLPPRFVMQVKTfSEACLmVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLsLCH
 VIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYNKQRFDQPLEASTWLKNFKTTNERFLNQIKVQEKYVW
 NKRESTEKGSPLGEVVEQGITRVRNATDAVGIVLkELKRQSSLGMFHLLVAVDGINALWGRtTLKREDKS
 PIAPEELALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNP
 KEFESCIQYYLENNWLQHEKAPTEEGKkELLFLSNANPSLLERHCAYL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033657

ORF Size: 1194 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_033657.2](#)

RefSeq Size: 1650 bp

RefSeq ORF: 1197 bp

Locus ID: 7818

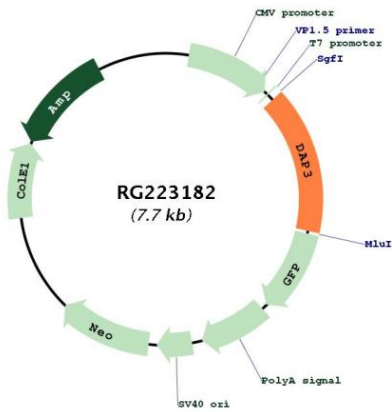
UniProt ID: [P51398](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome

Gene Summary: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that also participates in apoptotic pathways which are initiated by tumor necrosis factor-alpha, Fas ligand, and gamma interferon. This protein potentially binds ATP/GTP and might be a functional partner of the mitoribosomal protein S27. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG223182