

Product datasheet for **RG219744**

DAP3 (NM_004632) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP3 (NM_004632) 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:	>RG219744 representing NM_004632 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219744 representing NM_004632
 Red=Cloning site Green=Tags(s)

MMLKGITRLISRIHKLDPGRFLHMGTPARQSIAAHLDNQVPVESPRAISRNTNENDPAKHGDQHEGQHYNI
 SPQDLETVPFHGLPPRFVMQVKTfSEACLmVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLsLCH
 VIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYNKQRFDQPLEASTWLKNFKTTNERFLNQIKVQEKYVW
 NKRESTEKGSPLGEVVEQGITRVRNATDAVGIVLKElKRQSSlGMFHLLVAVDGINALWGRtTLKREDKS
 PIAPEELALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLKKEGFDALDPFIPILVSNYNP
 KEFESCiQYYLENNWLQHEKAPTEEgKkELLFLSNANPSLLERHCAYL

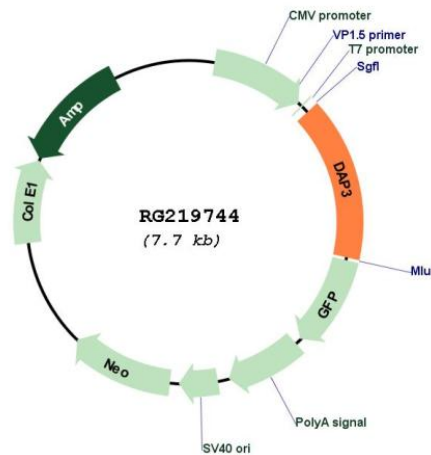
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004632

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:	<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_004632.4
RefSeq Size:	1635 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]