

Product datasheet for **SC310440**

DAP3 (NM_004632) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DAP3 (NM_004632) Human Untagged Clone
Tag: Tag Free
Symbol: DAP3
Synonyms: bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004632 edited
 GTCTCAGGACGGGCGCTTTGGAGCCGGCCAGGCAGCGTGTGTCGGTGCCTAGTCTGG
 AGAACTAGTCCGACTCAGTCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTC
 TAGGATCCATAAGTTGGACCCTGGGCGTTTTTTACACATGGGGAGCCAGGCTCGCCAAAG
 CATTGCTGCTCACCTAGATAAACCAGGTTCCAGTTGAGAGTCCGAGAGCTATTTCCCGCAC
 CAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAACATCTC
 CCCCCAGATTTGGAGACTGTATTTCCCATGGCCTTCTCCTCGCTTTGTGATGCAGGT
 GAAGACATTCAAGTGAAGCTTGCCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTA
 CCTGAAAAACACCAGTTTGGCTTATCCAGCTATACGATATCTTCTGTATGGAGAGAAGGG
 AACAGGAAAAACCCTAAGTCTTTGCCATGTTATTCATTTCTGTGCAAAACAGGACTGGCT
 GATACTACATATCCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGATCTTCTGCAGTC
 CAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTT
 CAAAACACTACAAATGAGCGCTTCCCTGAACCAGATAAAAAGTTCAAGAGAAAGTATGTCTGGAA
 TAAGAGAGAAAGCACTGAGAAAGGGAGTCTCTGGGAGAAGTGGTTGAACAGGGCATAAC
 ACGGGTGAGGAACGCCACAGATGCAGTTGGAATTTGTGCTGAAAGAGCTAAAGAGGCAAAG
 TTCTTTGGGTATGTTTACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGGGGAAG
 AACCACTCTGAAAAGAGAAGATAAAAAGCCGATTGCCCGGAGGAATTAGCACTTGTTC
 CACTTTGAGGAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAG
 CCAGACTGGGTCTCTCTTTAAGCCCGGAAAGCCTATCTGCCAGGAGTTGCTGGGAAA
 GGAAGGATTTGATGCCCTGGATCCCTTTATTCCATCCTGGTTTCCAACATAACCCAAA
 GGAATTTGAAAGTTGATTACAGTATTATTTGAAAAACAATTGGCTTCAACATGAGAAAGC
 TCCTACAGAAGAAGGAAAAAGAGCTGCTGTTCTAAGTAACGCGAACCCTCGCTGCT
 GGAGCGGCACTGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACA
 TCTGCTTTATGCTGGACCAGTAAGATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCC
 AGGCCCTTGTACCTATGGGATTGGA

Restriction Sites: Please inquire



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ACCN:	NM_004632
Insert Size:	1400 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_004632.2</u> , <u>NP_004623.1</u>
RefSeq Size:	1635 bp
RefSeq ORF:	1197 bp
Locus ID:	7818
UniProt ID:	<u>P51398</u>
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- α , 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]

Transcript Variant: This variant (2) encodes the longest isoform (1). Variants 1, 2 and 3 encode the same isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.