

Product datasheet for **SC313298**

DAP3 (NM_033657) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP3 (NM_033657) Human Untagged Clone
Tag:	Tag Free
Symbol:	DAP3
Synonyms:	bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_033657 edited
 GCCTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCCGGT
 CGCCTAGKCTGGAGAAGTCTCAGTCTCAGTCTCAGGTTGAGGGAATGGACCGACACGGGTATT
 GTACCGCTGAGGGAAAGGAGCGGGACTCCGGACCTCCAGGAGTGAAGGATGATGCTGAA
 AGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGGCGTTTTTACACAT
 GGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAAACCAGTTCCAGTTGAGAG
 TCCGAGAGCTATTTCCCGACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGA
 GGGTCAGCACTACAACATCTCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCC
 TCCTCGTTTTGTGATGCAGTGAAGACATTCAGTGAAGCTTGCCTGATGGTAAGGAAACC
 AGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTATCCAGCTATACGATA
 TCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCTAAGTCTTTGCCATGTTATTCATTT
 CTGTGCAAAACAGGACTGGCTGATACTACATATCCAGATGCTCATCTTTGGGTGAAAAA
 TTGTGGGATCTTCTGCAGTCCAGCTACAACAACAGCGCTTTGATCAACCTTTAGAGGC
 TTCAACCTGGCTGAAGAATTTCAAACACTACAAATGAGCGCTTCTGAACCAGATAAAAGT
 TCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGGGAGTCTCTGGGAGA
 AGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTTGCT
 GAAAGAGCTAAAGAGGCAAGTTCTTTGGGTATGTTTCACCTCCTAGTGGCCGTGGATGG
 AATCAATGCTCTTTGGGGAAGAACCCTCTGAAAAGAGAAGATAAAAGCCGATTGCCCC
 CGAGGAATTAGCACTTGTTCACAACCTTGAGGAAAAATGATGAAAAATGATTGGCATGGAGG
 CGCCATTTGTGCGGCTTTGAGCCAGACTGGGTCTCTCTTAAGCCCCGAAAGCCTATCT
 GCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATCCCATCCT
 GTTTTCCAACATAAACCAGGAATTTGAAAGTTGATTTCAGTATTATTTGGAAAAACA
 TTGGCTTCAACATGAGAAAGCTCTACAGAAGAAGGAAAAAAGAGCTGCTGTTCCTAAG
 TAACGCGAACCCCTCGCTGCTGGAGCGCACTGTGCTACCTCTAAGCCAAGATCACAGC
 ATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAAGATGAGGAAGTCGGG
 CAGTACACAGGAAGAGGAGCCAGGCCCTGTACCTATGGGATTGGACAGGACTGCAGTTG
 GCTCTGGACCTGCATTAATAAGGTTTCACTGTGAATGCGTGACAATAAGATATTCCTT
 GTTCTAAACTTTATATCAGTTTATTGGATGTGGTTTTTTCACATTTAAGATAATTATGG
 CTCTTTTCTAAAAATAAAATATCTTTCTAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_033657 unedited
 GACGTTGTATACGACTCCTATAGGGCGGCCGGAACCTCGGCACGAGTGGAGCCGGCCCC
 AGGCAGCGTGTGTGCGTGCCTAGGCTGGAGAAGTCTCAGTCTCAGTCTCAGTGAAGGATG
 ATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGGCGTTTT
 TTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAAACCAGTTCCA
 GTTGAGAGTCCGAGAGCTATTTCCCGACCAATGAGAATGACCCGGCCAAGCATGGGGAT
 CAGCACGAGGGTCAGCACTACAACATCTCCCCAGGATTTGGAGACTGTATTTCCCAT
 GGCTTCTCCTCGCTTTGTGATGCAGGTGAAGACATTCAGTGAAGCTTGCCTGATGGTA
 AGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTATCCAGCT
 ATACGATATCTTGTATGGAGAGAAGGGAACAGGAAAAACCTAAGTCTTTGCCATGTT
 ATTCATTTCTGTGCAAAACAGGACTGGCTGATACTACATATCCAGATGCTCATCTTTGG
 GTGAAAAATTGTCGGGATCTTCTGCAGTCCAGCTACAACAACAGCGCTTTGATCAACCT
 TTAGAGGCTTCAACCTGGCTGAAGAATTTCAAACACTACAAATGAGCGCTTCTGAACCAG
 ATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGGGAGTCT
 CTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGA
 ATTTGTGCTGAAAGAGCTAAAGAGCAAAGTTCTTTGGGTATGTTTCACCTCCTAGTGGC
 CGGTGGATGGGAATCAATGCTCTTTGGGGAAGAAACCCACTCC

3' Read Nucleotide Sequence:	>Forward primer walk for NM_033657 unedited CAGAGGTTAAGGAAACCTAAGATCTTTGCCCTGATTATTCATTTCTGTGCAAAACAGGA CTGGCTGATACTACATATTCAGATGCTCATCTTTGGGTGAAAAATCGTCGGGACCTTCT GCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAA GAATCTCAAACTACAAATGAGCGCCTCCTGAACCAGATAAAAGATCAAGAGAAGAATGC CTGGAATAAGAGAGAAAGCACTGAGAAAGGGAGACCTCCGGGAGAAGAGGTCGAACAGGG CATAACCGGGTGAGGAACGCCACAGATGCAGTCGGAATCGTGCTGAAAGAGCTAAAGAG GCAAAGTCCTTTGGGTATGTTTCACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTG GGGAAGAACCCTCTGAAAAGAGAAGATAAAAGCCCGATTGCCCCCGAGGAATTAGCACT TGTTCACTTGTAGGAAAATGATGAAAATGATTGGCATGGAGGCGCCATTGTGTGCGC TTTGAGCCAGACTGGGTCTCTTTAAGCCCCGAAAGCCTATCTGCCCCAGGAGTTGCT GGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATCCCATCTGGTTTCCAATAAA CCCAAAGGAATTTGAAAGTTGTATTCAAGTATTATTTGAAAACAATTGGCTTCAACATGA GAAAGCTCTACAGAAGATGAAAAAAGAGCTGCTGTTCTAAGTAACCGGAACCCCTCG CTGCTGGAGCGGCACTGTGCCTACCTCTAGCCCAGATCACAGCATGTGAGGAGACAGTGG ACATCTGCTTTATGCTGACCCAGTAGATGGAGGGAAGTCCGGGCAGTACACAGGAGAGGA GCCAGGCCCTGTACTATTGGGATTGGACAGGACTGGCAGTTGGCTCTGGACCTGCATAAA AATG
Restriction Sites:	NotI-NotI
ACCN:	NM_033657
Insert Size:	1700 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_033657.1 , NP_387506.1
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]

Transcript Variant: This variant (1) has an additional segment in the 5' UTR, as compared to variant 2. 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.