

Product datasheet for **RC232568**

DAP3 (NM_001199851) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DAP3 (NM_001199851) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DAP3
Synonyms: bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232568 representing NM_001199851
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGGCCAAGCATGGGGATCAGCAGGAGG
GTCAGCACTACAACATCTCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCTCCTCGCTTTGT
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CTGAAAAACACCAGTTTTGCTTATCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAA
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TCTTTGGGTATGTTTACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGGGAAGAACCACCTGA
AAAGAGAAGATAAAAGCCGATTGCCCCGAGGAATTAGCACTTGTTCACAACTGAGGAAAAATGATGAA
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GCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATCCCATCTGG
TTTCCAACATAACCCAAAGGAATTTGAAAGTTGTATTAGTATTATTTGGAAAACAATTGGCTTCAACA
TGAGAAAGCTCTACAGAAGAAGGGAAAAAAGAGCTGCTGTTCTTAAGTAACGCGAACCCCTCGCTGCTG
GAGCGGCACTGTGCCTACCTC

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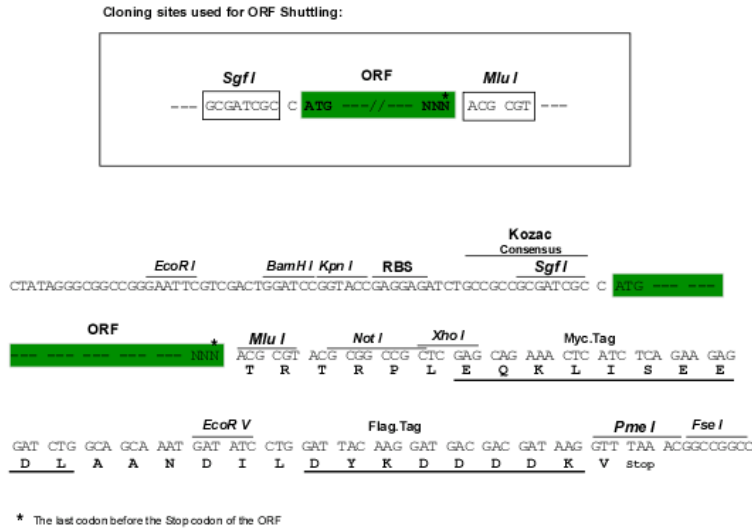
Protein Sequence: >RC232568 representing NM_001199851
 Red=Cloning site Green=Tags(s)

MMLKGITRLISRIHKAKHGDQHEGQHYNI SPQDLETVPFHGLPPRFVMQVKTFSEACLMVRKPALELLHY
 LKNTSFAYPAIRYLLYGEKGTGKTL SLCHVIHFCAKQDWLILHIPDAHLVWKNCRDLLQSSYNKQRFDQP
 LEASTWLNKFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEVVEQGITRVRNATDAVGIVLKELKRQS
 SLGMFHLLVAVDGINALWGRITTLKREDKSPIAPEELALVHNLKMMKNDWHGGAIVSALSQTGSLFKPRK
 AYL PQELLGKEGFDALDPFIPILVSNYPKEFESCIIQYYLENNWLQHEKAPTEEGKELLFLSNANPSLL
 ERHCAYL

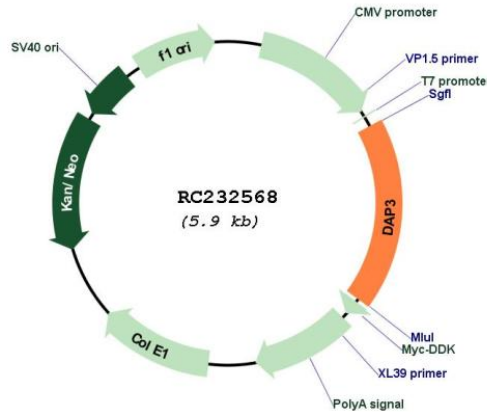
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001199851

ORF Size:	1071 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_001199851.1 , NP_001186780.1
RefSeq Size:	1945 bp
RefSeq ORF:	1074 bp
Locus ID:	7818
UniProt ID:	P51398
Cytogenetics:	1q22
Protein Families:	Druggable Genome
MW:	41.5 kDa

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]