

## Product datasheet for **RC232586**

### DAP3 (NM\_001199850) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DAP3 (NM_001199850) 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:	>RC232586 representing NM_001199850 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGGCGTTTTTACACA  
TGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAGTCCGAGAGC  
TATTTCCCGCACCAATGAGAATGACCCGGTGAAGACATTCAGTGAAGCTTGCCTGATGGTAAGGAAACCA  
GCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTATCCAGCTATACGATATCTTGTATG  
GAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTATTCATTTCTGTGCAAAACAGGACTGGCT  
GATACTACATATTCAGATGCTCATCTTTGGGTGAAAAATTTGTCGGGATCTTCTGCAGTCCAGCTACAAC  
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TCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGGGAGTCC  
TCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTTGTCTG  
AAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTACCTCCTAGTGGCCGTGGATGGAATCAATGCTC  
TTTGGGGAAGAACCCTCTGAAAAGAGAAGATAAAAGCCCGATTGCCCCGAGGAATTAGCACTTGTTC  
CAACTTGAGGAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAGCCAGACTGGG  
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ATCCCTTTATTCCCATCCTGGTTTCCAACATAACCCAAAGGAATTTGAAAGTTGTATTAGTATTATTT  
GGAAAACAATTGGCTTCAACATGAGAAAGCTCCTACAGAAGAAGGGAAAAAGAGCTGCTGTTCTAAGT  
AACCGAACCCTCGCTGCTGGAGCGGCACTGTGCCTACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >RC232586 representing NM\_001199850  
 Red=Cloning site Green=Tags(s)

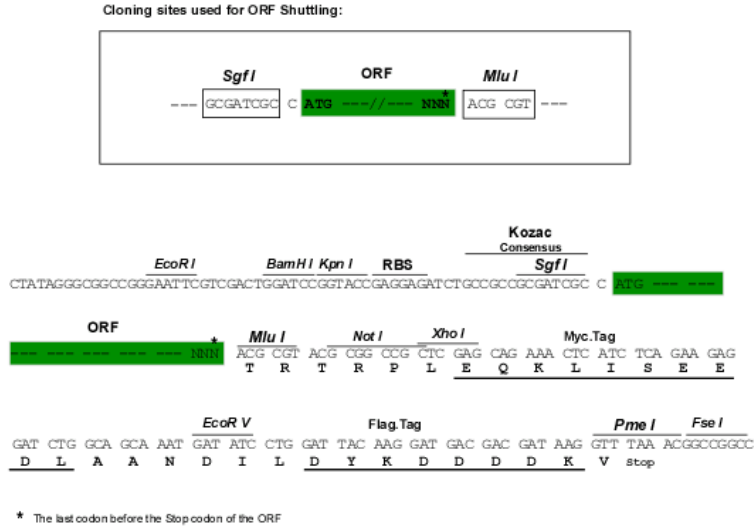
MMLKGITRLISRIHKLDPGRFLHMGTPARQSIAAHLDNQVPVESPRAISRNTNENPVKTFSEACLMVRKP  
 ALELLHYLKNTSFAYPAIRYLLYGEKGTGKTL SLCHVIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYN  
 KQRFDPLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEVVEQGITRVRNATDAVGIVL  
 KELKRQSSLGMFHLLVAVDGINALWGRITLKRDKSPIAPEELALVHNLKMMKNDWHGGAIVSALSQTG  
 SLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYPKEFESCIIQYYLENNWLQHEKAPTEEGKELLFLS  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

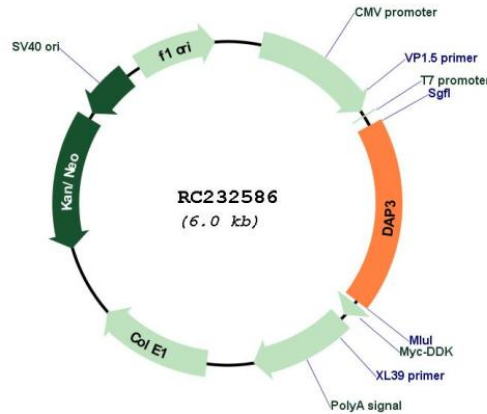
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001199850

<b>ORF Size:</b>	1092 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001199850.1</a> , <a href="#">NP_001186779.1</a>
<b>RefSeq Size:</b>	1966 bp
<b>RefSeq ORF:</b>	1095 bp
<b>Locus ID:</b>	7818
<b>UniProt ID:</b>	<a href="#">P51398</a>
<b>Cytogenetics:</b>	1q22
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	42.1 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]