

Product datasheet for RC223182

DAP3 (NM_033657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP3 (NM_033657) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DAP3
Synonyms:	bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223182 representing NM_033657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGGGCGTTTTTACACA
TGGGGACCCAGGCTCGCCAAAGCATTGTGCTCACCTAGATAACCAGGTTCCAGTTGAGAGTCCGAGAGC
TATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAACATC
TCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTCCTCCTCGCTTTGTGATCGAGGTGAAGACAT
TCAGTGAAGCTTGCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACCCAGTTT
TGCTTATCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCAT
GTTATTCAATTTCTGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAA
ATTGTCCGGATCTTCTGCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTG
GCTGAAGAATTTCAAACACTACAATGAGCGCTTCTGAACCAGATAAAAAGTTCAAGAGAAGTATGTCTGG
AATAAGAGAGAAAGCACTGAGAAAGGGAGTCTCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGA
GGAACGCCACAGATGCAGTTGGAATTGTGCTGAAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTCA
CCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTGGGAAGAACCCTCTGAAAAGAGAAGATAAAAGC
CGCATTGCCCCGAGGAATTAGCACTTGTTCACAACCTTGAGGAAAATGATGAAAAATGATTGGCATGGAG
GCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCCCCGAAAGCCTATCTGCCCCAGGA
GTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCCCATCCTGGTTTCCAACATAACCCA
AAGGAATTTGAAAGTTGTATTAGTATTATTTGGAAAACAATTGGCTTCAACATGAGAAAGCTCCTACAG
AAGAAGGGAAAAAAGAGCTGCTGTTCTAAGTAACGCGAACCCCTCGCTGCTGGAGCGGCACTGTGCCTA
CCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Reconstitution Method:

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_033657.2](#)

RefSeq Size: 1650 bp

RefSeq ORF: 1197 bp

Locus ID: 7818

UniProt ID: [P51398](#)

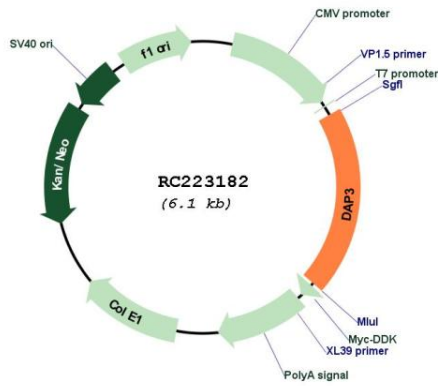
Cytogenetics: 1q22

Protein Families: Druggable Genome

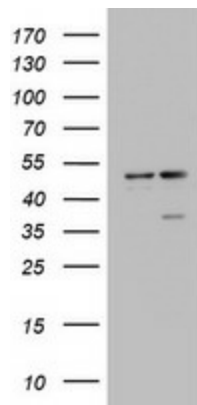
MW: 45.4 kDa

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]

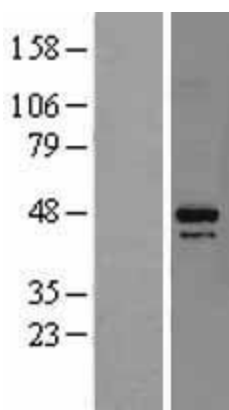
Product images:



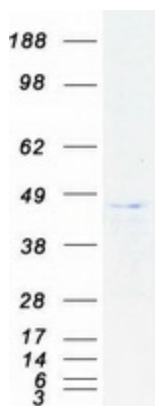
Circular map for RC223182



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DAP3 (Cat# RC223182, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DAP3 (Cat# [TA802927]). Positive lysates [LY403256] (100ug) and [LC403256] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403256]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223182 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DAP3 protein (Cat# [TP323182]). The protein was produced from HEK293T cells transfected with DAP3 cDNA clone (Cat# RC223182) using MegaTran 2.0 (Cat# [TT210002]).