

## Product datasheet for TP323182

### DAP3 (NM\_033657) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human death associated protein 3 (DAP3), nuclear gene encoding mitochondrial protein, transcript variant 1, 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC223182 representing NM\_033657  
**Red**=Cloning site **Green**=Tags(s)

MMLKGITRLISRIHKLDPGRFLHMGQTARQSIAAHLDNQVPVESPAISRNTNENDPAKHGDQHEGQHYNI  
SPQDLETVPFHGLPPRFVMQVKTFSEACLMVRKPALELLHLYLKNTSFAYPAIRYLLYGEKGTGKTL  
SLCHVIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYNKQRFQPLEASTWLKNFKTTNERFLNQIKVQEKYVW  
NKRESTEKGSPLGEVVEQGITRVRNATDAVGIVLKEKLRQSSLGMFHLLVAVDGINALWGRITTLKREDKS  
PIAPEELALVHNLKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELGKEGFDALDPFIPILVSNYNP  
KEFESCIQYYLENNWLQHEKAPTEEGKKEKLLFLSNANPSLLERHCAYL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 45.4 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  
**RefSeq:** [NP\\_387506](#)



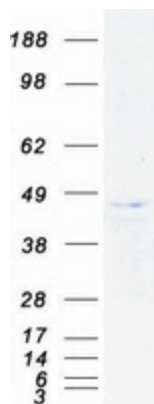
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|               |  |
|---------------|--|
| Locus ID:     | 7818                                   |
| UniProt ID:   | <a href="#">P51398</a>                 |
| RefSeq Size:  | 1650                                   |
| Cytogenetics: | 1q22                                   |
| RefSeq ORF:   | 1194                                   |
| Synonyms:     | bMRP-10; DAP-3; MRP-S29; MRPS29; S29mt |

**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]

**Protein Families:** Druggable Genome

### Product images:



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]).