

Product datasheet for **TP304183**

ATP1B3 (NM_001679) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide (ATP1B3), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC204183 protein sequence Red =Cloning site Green =Tags(s) |

MTKNEKKSLNQSLAEWKLFYINPTTGEFLGRTAKSWGLILLFYLVFYGFLLAALFSFTMWWMLQTLNDEVP
KYRDQIPSPGLMVFPKPVTALEYTFSRSDPTSAGYIEDLKKFLKPYTLEEQKNLTVCPDGALFEQKGPV
YVACQFPISLLQACSGMNDPDFGYSQGNPCILVKMNRIIGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMI
DLKYFPYYGKKLHVGYLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDDRDKFLGRVMFKITARA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 31.3 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: | <u>NP_001670</u> |
| Locus ID: | 483 |



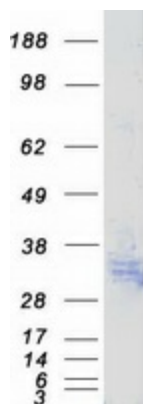
[View online »](#)

UniProt ID: [P54709](#)
RefSeq Size: 1853
Cytogenetics: 3q23
RefSeq ORF: 837
Synonyms: ATPB-3; CD298

Summary: The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2. [provided by RefSeq, Jul 2008]

Protein Families: Transmembrane
Protein Pathways: Cardiac muscle contraction

Product images:



Coomassie blue staining of purified ATP1B3 protein (Cat# TP304183). The protein was produced from HEK293T cells transfected with ATP1B3 cDNA clone (Cat# [RC204183]) using MegaTran 2.0 (Cat# [TT210002]).