

## Product datasheet for PH311715

### ATP5F1D (NM\_001687) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ATP5D MS Standard C13 and N15-labeled recombinant protein (NP_001678)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211715
Predicted MW:	17.49 kDa
Protein Sequence:	>RC211715 representing NM_001687 <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDVPTLTGAFGIL AAHVPTLQVLRPGLVVVHAEDGTTSKYFVSSGSI AVNADSSVQLLAEEAVTL DMLDLGAAKANLEKAQAE LVGTADEATRAEI QIRIEANEALVKALE  <span style="color: red;">TR</span> <span style="color: green;">TRPLEQKLI SEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001678</a>
RefSeq Size:	1005
RefSeq ORF:	504
Synonyms:	ATP5D; MC5DN5
Locus ID:	513
UniProt ID:	<a href="#">P30049</a>



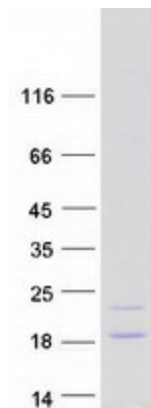
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**Cytogenetics:** 19p13.3

**Summary:** This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F<sub>1</sub>, and the membrane-spanning component, F<sub>o</sub>, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

### Product images:



Coomassie blue staining of purified ATP5F1D protein (Cat# [TP311715]). The protein was produced from HEK293T cells transfected with ATP5F1D cDNA clone (Cat# [RC211715]) using MegaTran 2.0 (Cat# [TT210002]).