

## Product datasheet for PH314840

### ATP5A (ATP5A1) (NM\_004046) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ATP5A1 MS Standard C13 and N15-labeled recombinant protein (NP_004037)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214840
Predicted MW:	59.75 kDa
Protein Sequence:	>RC214840 representing NM_004046 Red=Cloning site Green=Tags(s)

MLSVRVAADVVRALPRRAGLVSRNALGSSFIAARNFHASNTHLQKTGTAEMSSILEERILGADTSVDLEE  
TGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFNDKLIKEGDIVKRTGAIVDV  
PVGEELLGRVVDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPVIGRQRELI  
IGDRQTGKTSIAIDTIIINQKRFNDGSDEKLLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATAS  
DAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLKQAVAYRQMSLLRRPPGREAYPGDVFYLSRLLLE  
RAAKMNDAFGGSLTALPVIETQAGDVSAIYPTNVISITDQIFLETIFYKIRPAINVGLSVSRVGS  
AQTRAMKQVAGTMKLELAQYREVAFAQFGSDLDAATQQLSRGVRLTELLKQGGYSPMAIEEQVAVIYA  
GVRGYLDKLEPSKITKFENAFLSHVVSQHALLGTIRADGKISEQSDAKLKEIVTNFLAGFEA

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

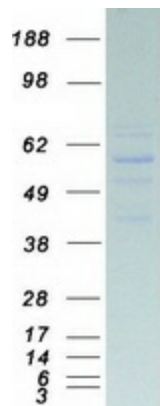
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004037</u>
RefSeq Size:	1895
RefSeq ORF:	1659



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<b>Synonyms:</b>	ATP5A; ATP5A1; ATP5AL2; ATPM; COXPD22; hATP1; HEL-S-123m; MC5DN4; MOM2; OMR; ORM
<b>Locus ID:</b>	498
<b>UniProt ID:</b>	<a href="#">P25705</a> , <a href="#">V9HW26</a>
<b>Cytogenetics:</b>	18q21.1
<b>Summary:</b>	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using 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, F1, and the membrane-spanning component, Fo, 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 alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16. [provided by RefSeq, Mar 2012]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

### Product images:



Coomassie blue staining of purified ATP5F1A protein (Cat# [TP314840]). The protein was produced from HEK293T cells transfected with ATP5F1A cDNA clone (Cat# [RC214840]) using MegaTran 2.0 (Cat# [TT210002]).