

Product datasheet for RC207908

ATP5PD (NM_006356) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP5PD (NM_006356) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ATP5PD
Synonyms: APT5H; ATP5H; ATPQ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207908 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGCGAAAACCTGCTCTAAAAACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAACC
AAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCCTCACCTCCAGGTTGGCTGCTTTACCTGA
GAATCCACCAGCTATCGACTGGGCTTACTACAAGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTT
GAGAAGAAGTTTAAATGCGCTGAAGTTCCTGTCAGAGGATAAATACTGCCAGGTGGATGCCGAAG
AAAAAGAAGATGTGAAATCTTGTGCTGAGTGGGTGTCTCTCAAAGGCCAGGATTGTAGAATATGAGAA
AGAGATGGAGAAGATGAAGAACTTAATTCATTTGATCAGATGACCATTGAGGACTTGAATGAAGCTTTC
CCAGAAACCAAAATTAGACAAGAAAAAGTATCCCTATTGGCCTCACCAACCAATTGAGAATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207908 protein sequence
Red=Cloning site Green=Tags(s)

MAGRKLALKTIDWVAFIEIIPQNQKAIASSLKSUNETLTSRLAALPENPPAIDWAYYKANVAKAGLVDDF
EKKFNALKVPVPEDKYTAQVDAEEKEDVKSCAEWVSLSKARIVEYEKEMEMKKNLIPFDQMTIEDLNEAF
PETKLDKPKYPYWPHPQIENL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

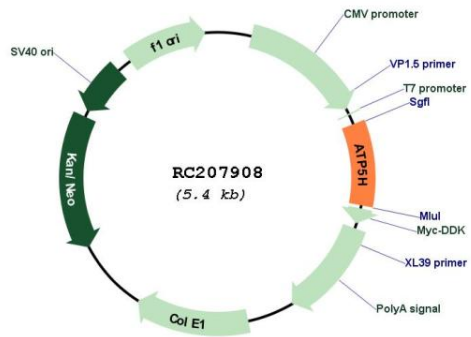
Chromatograms: https://cdn.origene.com/chromatograms/mk6338_d01.zip



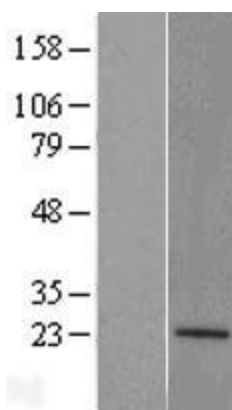
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Locus ID:	10476
UniProt ID:	<u>O75947</u>
Cytogenetics:	17q25.1
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	18.5 kDa
Gene Summary:	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15. [provided by RefSeq, Jun 2010]

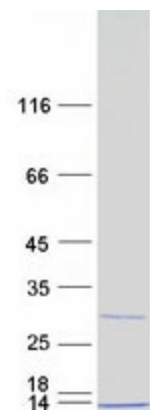
Product images:



Circular map for RC207908



Western blot validation of overexpression lysate (Cat# [LY416696]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207908 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP5PD protein (Cat# [TP307908]). The protein was produced from HEK293T cells transfected with ATP5PD cDNA clone (Cat# RC207908) using MegaTran 2.0 (Cat# [TT210002]).