

Product datasheet for RC201157

ATP5F1D (NM_001001975) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5F1D (NM_001001975) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP5F1D
Synonyms:	ATP5D; MC5DN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201157 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCCCGCCGCGCTGCTCCGCCGCCGGGACTTGGCCGCTCGTCCGCCACGCCCGTGCCTATGCCG
AGGCCGCCCGCCCGGCTGCCGCTCTGGCCCCAACCCAGATGTCTTACCTTCGCTCTCCACGCA
GGTGTTCCTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCGGAGCCTTCGGCATCCTG
GCGGCCACGTGCCACGCTGCAGGTCTGCGGCCGGGCTGGTGTGGTGCATGCAGAGGACGGCACCA
CCTCAAATACTTTGTGAGCAGCGTTCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGCCGA
AGAGGCCGTGACGCTGGACATGTTGGACCTGGGGCAGCCAAGGCAAACCTGGAGAAGGCCAGGCGGAG
CTGGTGGGACAGCTGACGAGGCCACGGGCGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGG
TGAAGGCCCTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC201157 protein sequence Red=Cloning site Green=Tags(s)
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MLPAALLRRPGLGRLVRHARAYAEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDVPTLTGAFGIL
AAHVPTLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLLAAEAVTLDMLDLGAAKANLEKAQAE
LVGTAEATRAEQIRIEANEALVKALE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6764_b06.zip
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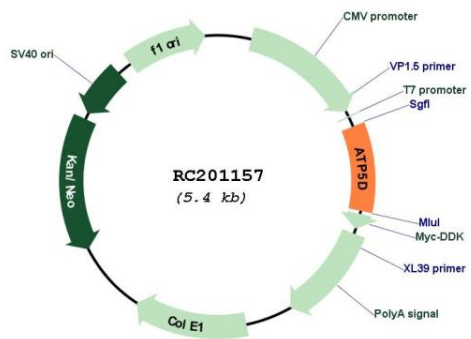
Cytogenetics: 19p13.3

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

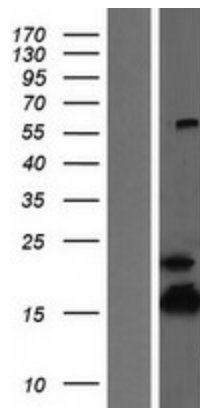
MW: 17.5 kDa

Gene 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, 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 delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified. [provided by RefSeq, Jul 2008]

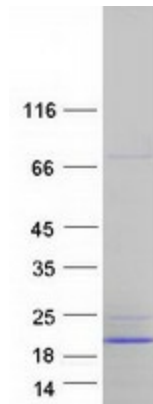
Product images:



Circular map for RC201157



Western blot validation of overexpression lysate (Cat# [LY419790]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC211715] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ATP5F1D protein (Cat# [TP301157]). The protein was produced from HEK293T cells transfected with ATP5F1D cDNA clone (Cat# RC201157) using MegaTran 2.0 (Cat# [TT210002]).