

Product datasheet for RC223873

ATP5F1C (NM_005174) Human Tagged ORF Clone

Product data:

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|--------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ATP5F1C (NM_005174) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ATP5F1C |
| Synonyms: | ATP5C; ATP5C1; ATP5CL1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC223873 representing NM_005174 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTCTCGCGGGTGTGCTGGGCTGTGCGCCTGGACCTTGACGCCGAATGGATTCAAGTTCGAA
ATATGGCAACTTTGAAAGATATCACCAGGAGACTAAAGTCCATCAAAAACATCCAGAAAATTACCAAGTC
TATGAAAATGGTAGCGGCAGAAAATATGCCCGAGCTGAGAGAGAGCTGAAACCAGCTCGAATATATGGA
TTGGGATCTTTAGCTCTGTATGAAAAGCTGATATCAAGGGGCCTGAAGACAAGAAGAAACACCTCCTTA
TTGGTGTGTCCTCAGATCGAGGACTGTGTGGTGTCTATTTCCTCCATTGCTAAACAGATGAAAAGCGA
GGTTGCTACACTAACAGCAGCTGGGAAAGAAGTTATGCTTGTGGAAATGGTGACAAAATCAGAGGCATA
CTTTATAGGACTCATTCTGACCAGTTTCTGGTGGCATTCAAAGAAGTGGGAAGAAAGCCCCCACTTTTG
GAGATGCGTCAGTCATTGCCCTTGAATTAATAAATCTGGATATGAATTTGATGAAGGCTCCATCATCTT
TAATAAATTCAGGTCTGTCATCTCCTATAAGACAGAAGAAAGCCCATCTTTCCCTTAATACCGTTGCA
AGTGCTGACAGCATGAGTATCTATGACGATATTGATGCTGACGTGCTGCAAAATTACCAAGAATACAATC
TGGCCAACATCATCTACTCTCTGAAGGAGTCCACCCTAGTGACGAGAGTCCAGGATGACAGCCAT
GGACAATGCCAGCAAGAATGCTTCTGAGATGATTGACAAATTGACATTGACATTCAACCGTACCCGCCAA
GCTGTCATCACAAAAGAGTTGATTGAAATTATCTCTGGTGTGACGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223873 representing NM_005174
 Red=Cloning site Green=Tags(s)

MFSRAGVAGLSAWTLQPQWIQVRNMATLKDITRRLKSIKNIQKITKSMKMVAAAKYARAERELKPARIYG
 LGSLALYEKADIKGPEDKHKHLLIGVSSDRGLCGAIHSSIAKQMKSEVATLTAAGKEVMLVGIGDKIRGI
 LYRTHSDQFLVAFKEVGRKPPTFGDASVIALELLNSGYEFDEGSIIFNKFRSVISYKTEEKPIFSLNTVA
 SADSMSIYDDIDADVLQNYQEYNLANIIYSLKESTTSEQSARMTAMDNASKNASEMIDKLLTLTFNRTRQ
 AVITKELIEIISGAAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

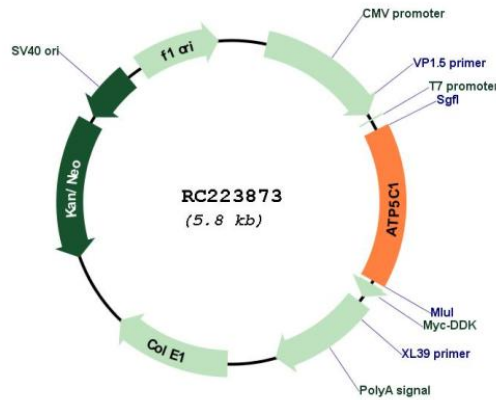
Chromatograms: https://cdn.origene.com/chromatograms/mk6299_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

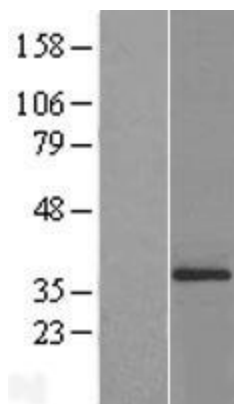


Plasmid Map:



ACCN: NM_005174

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|--------------------------|--|
| ORF Size: | 891 bp |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_005174.3 |
| RefSeq Size: | 1125 bp |
| RefSeq ORF: | 894 bp |
| Locus ID: | 509 |
| Domains: | ATP-synt |
| Protein Pathways: | Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease |
| MW: | 32.88 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 gamma subunit of the catalytic core. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene also has a pseudogene on chromosome 14. [provided by RefSeq, Jul 2008] |

Product images:

Western blot validation of overexpression lysate (Cat# [LY417465]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223873 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).