

Product datasheet for **SC119113**

ATP5F1D (NM_001687) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ATP5F1D (NM_001687) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | ATP5F1D |
| Synonyms: | ATP5D; MC5DN5 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF sequence for NM_001687 edited ATGCTGCCCGCCGCGCTGCTCCGCGCCCGGGACTTGGCCGCCTCGTCCGCCACGCCCGT GCCTATGCCGAGGCCCGCCCGCCCGGCTGCCGCCTCTGGCCCCAACCCAGATGTCCTTC ACCTTCGCCTCTCCACGCAGGTGTTCTTCAACGGTGCCAACGTCGGCAGGTGGACGTG CCCACGCTGACCCGAGCCTTCGGCATCCTGGCGGCCACGTGCCACGCTGCAGGTCCTG CGGCCGGGGCTGGTGGTGCATGCAGAGGACGGCACCACCTCCAATACTTTGTGAGC AGCGGTTCCATCGCAGTGAACGCCGACTCTTCGGTGCAGTTGTTGGCCGAAGAGGCCGTG ACGCTGGACATGTTGGACCTGGGGCAGCCAAGGCAAACCTGGAGAAGGCCCAGGCCGAG CTGGTGGGACAGCTGACGAGGCCACGGGGCAGAGATCCAGATCCGAATCGAGGCCAAC GAGGCCCTGGTGAAGGCCCTGGAGTAG |



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_001687 unedited GTACAAGTTCAAACATTTGTTATACGACCTCACTATAGGGCCGGCCGCGCAATTCGGCA AGAGGGCTACCCGCTTCTGCGCCCGCCGCTTGCCATGCTGCCGCGCGCTGCTCCG CCGCCGGGACTTGGCCGCTCGTCCGCCACGCCCGTGCCTATGCCGAGGCCGCCGCCG CCCGGTGCCGCTCTGGCCCAACCAGATGTCCTTACCTTCGCTCTCCCACGCAGGT GTTCTTCAACGGTGCCAACGTCCGGCAGGTGGACGTGCCACGCTGACCCGAGCCTTCGG CATCTGGCGGCCACGTGCCACGCTGCAGGTCTGCGGCCGGGGCTGGTCGTGGTGCA TGCAGAGGACGGCACCACTCCAATACTTTGTGAGCAGCGGTTCCATCGCAGTGAACGC CGACTCTTCGGTGCAGTTGTTGGCCGAAGAGCCGTGACGCTGGACATGTTGGACCTGGG GGCAGCCAAGGCAAACTTGGAGAAGGCCAGGCCGAGCTGGTGGGGACAGCTGACGAGGC CACGCGGGCAGAGATCCAGATCCGAATCGAGGCCAACGAGGCCCTGGTGAAGGCCCTGGA GTAGGCGGTGCGTACCCGGTGTCCCGAGGCCCGCCAGGGGCTGGGCAGGGATGCCAGGT GGGCCAGCCAGCTCCTGNGGTCCCGGCCACCTGNGGAAGCCGCGCTGCCAAGGAGGCC ACCAGAGGGCAGTGCAGGCTTCTGCCTGGGCCAGGCCCTGCCTGTGTTGAAAGCTCTG GGGACTGGCCAGGGAAGCTCCTCCTCAGCTTTGAGCTGTGGCTGCCACCCATGNGGCTC TCCTTCCGCTCTCAAGATCCCCCAGCCTGACNGGCCGCTTTACCATCCCTCTGCCCTG CAGAGCCAGCCGAAGTTGACCTCAGCTTCG</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_001687 unedited TTTTTTTCAGTTCGCGGTCTTTATGGGGCGGGGCTGGGGCAGTTCATCCATAGTGGT CCGAAGCTGAGGTCAACCTTGGCGGCTGGCTCTGCAGGGCATAGGGGATGGTAAGCGGCC CGTCAGGCTGGGGGATCTTGGAGGGCGAAGGAGAGCCCATGGGTGGCAGCCACAGCT CAAAGCTGAGGAGGAGCTTCCCTGGCCATTCCCAAGAGCTTTCAACACAGGCAGGGCCT GGGGCCATGCAGAAGCCTGCACTGCCCTCTGGTGGCCTCCTTGGCAGGCAGCGGCTTCCC CATGTGGCCGGGACCCAGGAGCTGGCTGGGCCACCTGGCATCCCTGCCCATCCCCTGG CCGGGCTCGGGACACCGGTACGCACCGTCTACTTCAGGGCCTTACCAGGGCCTCGTT GGCCTCGATTGCGATCTGGATCTCTGCCCCGTGGCCTCGTCAGCTGTCCCACAGCTC CGCCTGTGCCTTCNCAAAGCCTCGCCTTGGCTGCCCCAGGTCCCACATGTCCAGCGTCC CCGGCCTCCTCGGCCAACAACTGTACCGAATATTCGGCGTTCAGTGCATGGAACCCGTG CTCCCAAAGTATTTGGAAGTGGGGCCTTCTCTGCTTGTCTCTAGATCATTCCCTATCCC AATGACCCGACCGCGGCTACGCGGCCCGCCCGTTGCCTTTAGGCTTCTGTCTCCCGGCC CTCTTCCCTGCACTCCCTTCGGCCCGGACTAACCTTCTTGCCTACCCATGCCAAG CATTTCGTTTTGGCTACCCTCCTCCTCGCCGGGCTGCCCTTTTCTTGTCTCTCTGGCG TCCACTCGTCTATTTTCGCTCGTCTACAACTGCTTCTTTTTTCCCTTCGCCCCGTCTCA TCCGCCCGCGTGGTAATCTCGTCCCCCCTTCTCTCACCTTAACCTTCTGTCT</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_001687 |
| Insert Size: | 1020 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001687.4](#), [NP_001678.1](#)

RefSeq Size: 1005 bp

RefSeq ORF: 507 bp

Locus ID: 513

UniProt ID: [P30049](#)

Cytogenetics: 19p13.3

Domains: ATP-synt_DE

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

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]
Transcript Variant: This variant (1) represents the longer transcript. Both variants encode the same isoform.