

## Product datasheet for **SC108539**

### ATP5MC1 (NM\_005175) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5MC1 (NM_005175) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5MC1
Synonyms:	ATP5A; ATP5G; ATP5G1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005175 edited ATGCAGACCGCCGGGGCATTATTCATTTCTCCAGCTCTGATCCGCTGTTGTACCAGGGT CTAATCAGGCCTGTGTCTGCCTCCTTCTTGAATAGCCAGTGAATTCATCTAAACAGCCT TCCATACAGCAACTTCCCACTCCAGGTGGCCAGACGGGAGTTCCAGACCAGTGTGTCTCC CGGGACATTGACACAGCAGCCAAGTTTATTGGTGCTGGGGCAGCCACAGTTGGTGTGGCT GGTTCAGGGGCTGGCATTGGAACCGTGTGGCAGCTTGATCATTGGCTATGCCAGGAAC CCGTCTCTCAAGCAGCAGCTCTTCTCCTATGCCATTCTTGGCTTTGCCCTGTCTGAGGCC ATGGGGCTTTTCTGTTTGATGGTCGCCTTCCTCATCCTCTTCGCCATGTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005175 unedited CACGAGGGGCGAGCGCTGTGGCCAAAGCAGGGGTTGCAGGGCAGTAGGAGTGCAGACTGA AAAAAGCAGACCGCCGGGGCATTATTCATTTCTCCAGCTCTGATCCGCTGTTGTACCAGG GGTCTAATCAGGCCTGTGTCTGCCTCCTTCTTGAATAGCCAGTGAATTCATCTAAACAG CCTTCTACAGCAACTTCCCACTCCAGGTGGCCAGACGGGAGTTCCAGACCAGTGTGTCT TCCCGGGACATTGACACAGCAGCCAAGTTTATTGGTGCTGGGGCAGCCACAGTTGGTGTG GCTGGTTCAGGGGCTGGCATTGGAACCGTGTGGCAGCTTGATCATTGGCTATGCCAGG AACCCGTCTCTCAAGCAGCAGCTCTTCTCCTATGCCATTCTTGGCTTTGCCCTGTCTGAG GCCATGGGNGCTTTTCTGTTTGATGGTCGCCTTCCTCATCCTCTTCGCCATGTGAGGCTC CTGGNNGGTCACCGGCCTGTTGCTACTGCAACTCCACACCTTCTGGGCTGGGGGTGG TGTTAAGCTTTACCATTAACACAAACGTTTCTCTAAAAAANAAN



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**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, F<sub>1</sub>, and the membrane-spanning component, F<sub>o</sub>, 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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.