

## Product datasheet for SC331122

### ATP5A (ATP5A1) (NM\_001001935) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5A (ATP5A1) (NM_001001935) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5A
Synonyms:	ATP5A; ATP5A1; ATP5AL2; ATPM; COXPD22; hATP1; HEL-S-123m; MC5DN4; MOM2; OMR; ORM
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC331122 representing NM_001001935. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCCTCTATTCTTGAAGAGCGTATTCTTGGAGCTGATACCTCTGTTGATCTTGAAGAACTGGGCGT
GTCTTAAGTATTGGTGTGGTATTGCCCGCTACATGGGCTGAGGAATGTTCAAGCAGAAGAAATGGTA
GAGTTTTCTTCAGGCTTAAAGGGTATGCTTGAACCTGGAACCTGACAATGTTGGTGTTCGTGTTT
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GGTGAGGAGCTGTTGGTCTGTAGTTGATGCCCTTGGTAAATGCTATTGATGAAAGGGTCCAATTGGT
TCCAAGACGCGTAGGCGAGTTGGTCTGAAAGCCCCGGTATCATTCTCGAATTTAGTGGGGAACCA
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GTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATTCTCCATGGCTATTGAAGAACAAGTGGCTGTT
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TTCTTGCTCATGTCGTCAGCCAGCACCAAGCCTTGTGGGCACTATCAGGGCTGATGAAAAGATCTCA
GAACAATCAGATGCAAAGCTGAAAGAGATTGTAACAAATTTCTTGCTGGATTTGAAGCTTAA

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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001001935
Insert Size:	1512 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001001935.2</a>
<b>RefSeq Size:</b>	2000 bp
<b>RefSeq ORF:</b>	1512 bp
<b>Locus ID:</b>	498
<b>UniProt ID:</b>	<a href="#">P25705</a>
<b>Cytogenetics:</b>	18q21.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	54.5 kDa
<b>Gene Summary:</b>	<p>This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using 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 alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16. [provided by RefSeq, Mar 2012]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and uses an alternate splice junction at the 3' end of an exon compared to variant 1, that causes a frameshift. The resulting isoform (c) is shorter at the N-terminus compared to isoform a. Variants 4 and 5 both encode the same isoform (c).</p>