

Product datasheet for **SC127740**

ATP5L (NM_006476) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5L (NM_006476) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5L
Synonyms:	ATP5JG; ATP5L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127740 sequence for NM_006476 edited (data generated by NextGen Sequencing) ATGGCCCAATTTGTCCGTAACCTTGTGGAGAAGACCCCGCGCTGGTGAACGCTGCTGTG ACTTACTCGAAGCCTCGATTGGCCACATTTGGTACTACGCCAAGTTGAGCTGGTTCCT CCCACCCCTGCTGAGATCCCTAGAGCTATTCAGAGCCTGAAAAAATAGTCAATAGTGCT CAGACTGGTAGCTTCAAACAGCTCACAGTTAAGGAAGCTGTGCTGAATGGTTTGGTGCC ACTGAGGTGTTGATGTGGTTTTATGTCGGAGAGATTATAGGCAAGCGGGGCATCATTGGC TATGATGTTTGA Clone variation with respect to NM_006476.4



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006476 unedited NNCCCCNCCCNNNNNNCCCCNNNNNNCCCCNNNNNCCNCGGTTCCGGATTTGTAT ACGACTTATATAGGCGGCCGGAATTCGGCACGAGCAGCCGGCGGTTCCGGGGCGACGGAC TCTCCATTCCAGAACCATGGCCCAATTTGTCCGTAACCTTGTGGAGAAGACCCCGGGCT GGTGAACGCTGCTGTGACTTACTCGAAGCCTCGATTGGCCACATTTTGGTACTACGCCAA GGTTGAGCTGGTTCCTCCCACCCTGCTGAGATCCCTAGAGCTATTCAGAGCCTGAAAAA AATAGTCAATAGTGCTCAGACTGGTAGCTTCAAACAGCTCACAGTTAAGGAAGCTGTGCT GAATGGTTTGGTGGCCACTGAGGTGTTGATGTGGTTTTATGTCGGAGAGATTATAGGCAA GCGGGGCATCATTGGCTATGATGTTGAAGACCAATCTTAAACATCTGATTATATTTGAT TTATTATTTGAGTGTGTTGGACCATGTGTGATCAGACTGCTATCTGAATAAAATAAGAT TTGTCNNANANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTCGACTTAGAT TGCGGCCCGGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTC CCCAGTGCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGCCTAAT AAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATATATGGGGAGGGGG GGGGNANTANANCACAGGGCCCAANTTGGAAAAACAACCTGTAAGCCCGGGGGGCTTA TTGAAAACCAAGCTGGAAGGGCAGGGGACAATCTTGCCTCACTGCAATCTCCGCCTTCT GGGTTCAACCGATTCTCTGCCTCAGCTCCCGAGTTGTTGGGATCCAGGCATGCCTGAC CAGGCTAA
Restriction Sites:	NotI-NotI
ACCN:	NM_006476
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:	<ol style="list-style-type: none"> 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_006476.4 , NP_006467.4
RefSeq Size:	1343 bp
RefSeq ORF:	312 bp
Locus ID:	10632
UniProt ID:	O75964
Cytogenetics:	11q23.3
Domains:	ATP-synt_G
Protein Pathways:	Metabolic pathways, Oxidative phosphorylation

Gene Summary:

Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the g subunit of the Fo complex. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) represents the shorter transcript and is protein coding.