

Product datasheet for **SC322509**

ATP5F1B (NM_001686) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5F1B (NM_001686) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5F1B
Synonyms:	ATP5B; ATPMB; ATPSB; HEL-S-271
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322509
 GGACTACGCCATGTTGGGGTTTGTGGGTCGGGTGGCCGCTGCTCCGGCCTCCGGGGCCTT
 GCGGAGACTCACCCTTCAGCGTCGCTGCCCCAGCTCAGCTCTTACTGCGGGCCGCTCC
 GACGGCGGTCCATCCTGTGAGGGACTATGCGGCGCAAACATCTCCTTCGCCAAAAGCAGG
 CGCCGCCACCGGGCGCATCGTGGCGGTATTGGCGCAGTGGTGGACGTCCAGTTTGATGA
 GGGACTACCACCAATTCTAAATGCCCTGGAAGTGAAGGCAGGGAGACCAGACTGGTTTT
 GGAGGTGGCCAGCATTGGGTGAGAGCACAGTAAGGACTATTGCTATGGATGGTACAGA
 AGGCTTGGTTAGAGGCCAGAAAGTACTGGATTCTGGTGCACCAATCAAAATTCCTGTTGG
 TCCTGAGACTTTGGGCAGAATCATGAATGTCATTGGAGAACCTATTGATGAAAGAGGTCC
 CATCAAAACCAACAATTTGCTCCCATTATGCTGAGGCTCCAGAGTTCATGAAATGAG
 TGTTGAGCAGGAAATTCGGTACTGGTATCAAGGTTGTCGATCTGCTAGCTCCCTATGC
 CAAGGGTGGCAAATTTGGGCTTTTTGGTGGTCTGGAGTTGGCAAGACTGTACTGATCAT
 GGAGTTAATCAACAATGTCGCCAAAGCCATGGTGGTTACTCTGTGTTTGGTGGTGG
 TGAGAGGACCCGTGAAGGCAATGATTTATACCATGAAATGATTGAATCTGGTGTATCAA
 CTTAAAAGATGCCACCTAAGGTAGCGCTGGTATATGGTCAAAATGAATGAACCACCTGG
 TGCTCGTGCCCGGTAGCTCTGACTGGGCTGACTGTGGCTGAATACTTCAGAGACCAAGA
 AGGTCAAGATGTACTGCTATTTATTGATAACATCTTTCGTTTACCCAGGCTGGTTCAGA
 GGTGTCTGCATTATTGGGCCGAATCCCTTCTGCTGTGGGCTATCAGCCTACCCTGGCCAC
 TGACATGGTACTATGCAGGAAAGAATTACCACTACCAAGAAGGGATCTATCACCTCTGT
 ACAGGCTATCTATGTGCCTGCTGATGACTTGACTGACCCTGCCCTGCTACTACGTTTGC
 CCATTTGGATGCTACCACTGTACTGTGCGGTGCCATTGCTGAGCTGGGCATCTATCCAGC
 TGTGGATCCTCTAGACTCCACCTCTCGTATCATGGATCCCAACATTGTTGGCAGTGAGCA
 TTACGATGTTGCCCGTGGGTGCAAAAGATCCTGCAGGACTACAAATCCCTCCAGGATAT
 CATTGCCATCCTGGGTATGGATGAACCTTCTGAGGAAGACAAGTTGACCGTGTCCCGTGC
 ACGGAAAATACAGCGTTTCTTGTCTCAGCCATTCCAGGTTGCTGAGGTCTTCACAGGTCA
 TATGGGAAGCTGGTACCCTGAAGGAGACCATCAAAGGATTCCAGCAGATTTTGGCAGG
 TGAATATGACCATCTCCAGAACAGGCCTTCTATATGGTGGGACCCATTGAAGAAGCTGT
 GGCAAAGCTGATAAGCTGGCTGAAGAGCATTTCATCGTGGGGTCTTTGCTCTGTAC
 TGTCTCTCTCTTCCCCTAACCCAAAAGCTTCATTTTTCTGTGTAGGCTGCACAAGAG
 CCTTGATTGAAGATATATTCTTCTGAACAGTATTTAAGGTTTCCAATAAAATGTACACC
 CCTCAGAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001686

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001686.3 , NP_001677.2
RefSeq Size:	1857 bp
RefSeq ORF:	1590 bp
Locus ID:	506
UniProt ID:	P06576
Cytogenetics:	12q13.3
Domains:	ATP-synt_ab, ATP-synt_ab_C, AAA, ATP-synt_ab_N
Protein Families:	Druggable Genome
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 beta subunit of the catalytic core. [provided by RefSeq, Jul 2008]