

Product datasheet for **SC119088**

ATP5PO (NM_001697) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP5PO (NM_001697) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP5PO
Synonyms:	ATP5O; ATPO; HMC08D05; OSCP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119088 sequence for NM_001697 edited (data generated by NextGen Sequencing) ATGGCTGCCCCAGCAGTGTCCGGCTCTCCCGCAGGTGCGATGCTTCAGTACCTCTGTG GTCAGACCATTTGCCAAGCTTGTGAGGCCTCCTGTTTCAGGTATACGGTATTGAAGTTCGC TATGCCACAGCTCTTTATTCTGCTGCATCAAACAGAATAAGCTGGAGCAAGTAGAAAAG GAGTTGTTGAGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAAT CCCTATGTGAAGCGTTCCATTAAGTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGG TTCTCTCCCTCACTACCAATCTGATCAATTTGCTTGCTGAAAATGGTCGATTAAGCAAT ACCCAAGGAGTCGTTTCTGCCTTTTCTACCATGATGAGTGTCCATCGCGGAGAGGTACCT TGCACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAATAACTGTC CTCAAGAGCTTCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCA ATCTTGGGTGGAATGATTGTGCGCATTGGCGAGAAATATGTTGACATGTCTGTCAAGACC AAGATTAGAAGCTGGGCAGGGCTATGCGGGAGATTGTCTAA Clone variation with respect to NM_001697.2



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001697 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGAAGATGGCTGCC
 CCAGCAGTGTCCGGGCTCTCCCGCAGGTGCGATGCTTCAGTACCTCTGTGGTCAGACCA
 TTTGCCAAGCTTGTGAGGCTCCTGTTCAAGTATACGGTATTGAAGTTCGCTATGCCACA
 GCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
 AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTG
 AAGCGTTCCATTAAAGTAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCC
 CTCACTACCAATCTGATCAATTTGCTTGTGAAAATGGTCGATTAAGCAATACCCAAGGA
 GTCGTTTTCTGCCTTTTCTACCATGATGAGTGCCATCGCGGAGAGGTACCTTGACAGTG
 ACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAATAACTGCCTCAAGAGC
 TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTGGGT
 GGAATGATTGTGCGCATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTGAG
 AAGCTGGCGAGGCTATGCGGGAGATTGTCTAAAAGTGTGGNTTTTCTGCCATCAGTGA
 AAATCTTAAACTTNGAGCACATAAAAAGCTTCCAGAACAGATCAAAAAAAAAAAAAAA
 ACTCGACTCTAGATGCGGCCGCGTTCATAGCTGTTTCTGACAGATCCCGGTGGCATNCC
 TGTGACCCTCCCATGCCTCTCCTGGCCCTGGAAGNTGCACTNCAGTGCCACCAGCCC
 TGCTATAAAAATAAGTGCTCATTGCTGACTAGTGTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001697 unedited
 GCGGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTGGATCTGTTCTGGAAGCTTT
 TTATTGTTGCTCCAAGTTAAGAATTTTCACTGATGGCAGAAAACCAACTTTTAGACA
 ATCTCCCGCATAGCCCTGCCAGCTTCTGAATCTTGGTCTTGACAGACATGTCAACATAT
 TTCTCGCCAATGCGCACAATCATTCCACCCAAGATTGACGGATCAGTCTTAGCCTCCAAT
 TTCAATACTTGGCCTTGACTTAAGAAGCTTTGAGGACAGTTTTTAATCAGAGAGTGTG
 GCTTCTTCTAAAGGAGATGCAGAGGTCACTGTGCAAGGTACCTCTCCGGATGGACTC
 ATCATGGTAGAAAAGGCAGAAACGACTCCTTGGGTATTGCTTAATCGACCATTTTCAGCA
 AGCAAATTGATCAGATTGGTAGTGAGGGGAGAGAACCTCTTTTTGCTGTGATGTCATTT
 AAGCTTTTCACTTTAATGGAACGCTTACATAGGGATTCAAAACAGAAGCAGCCACTTTG
 GGTTCTTCAAGATTTGTGCTACTCTCAACAACCTTTTCTACTTGCTCCAGCTTATTC
 TGTTTTGATGCAGCAGAATAAAGAGCTGTGGCATAGCGACCTCAATACCGTATACTGCA
 ACAGGAAGCCTCACAAGCTTGGCAAATGGTCTGACCACAGAGTACTGAAGCATCGCACC
 TGCCGGGAGAGCCCGGACACTGCTGGGGCAGCCATCTTCTCCCTCGTGCCGAATTCGCG
 GCCGCCTATAGTGAGTGTATACAAATTCTGACGTTCACTAACGAGCTCTGCTATATGAC
 CTCCACCGTACACGCTACCGCCATTGCGTTAACGGGCGGGGTTTACGACTTTTGAAAG
 TCCCGTGATTTTGTGCCAAACAACCTCATTGACGTAATGGGTGG

Restriction Sites:

NotI-NotI

ACCN:

NM_001697

Insert Size:

780 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:	<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_001697.2 , NP_001688.1
RefSeq Size:	815 bp
RefSeq ORF:	642 bp
Locus ID:	539
UniProt ID:	P48047
Cytogenetics:	21q22.11
Domains:	OSCP
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	The protein encoded by this gene is a component of the F-type ATPase found in the mitochondrial matrix. F-type ATPases are composed of a catalytic core and a membrane proton channel. The encoded protein appears to be part of the connector linking these two components and may be involved in transmission of conformational changes or proton conductance. [provided by RefSeq, Jul 2008]