

Product datasheet for **SC125805**

ATP12A (NM_001676) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP12A (NM_001676) Human Untagged Clone
Tag: Tag Free
Symbol: ATP12A
Synonyms: ATP1A1; H-K-ATPase; HK
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001676 edited
 TGGCCCGGAGGTGCGTGCAGGGCCCGCCGCGCGGTATCTCCACCGCCAACACCTC
 AGCCACTGCCACTGCCACAGCCACAGCAGGCCCCCACCCTGCGCTCCGCCGCTGCGGT
 CCGGATCCGCGCTCCACGCCCGCAGCCCCGCGGCCACCAGCCAGCATGCACCAGAAAA
 CCCAGAAATTTACTCCGTGGAGCTCAGCGGAACTAAGGACATCGTAAAAACAGCAAGG
 GGGATGGCAAGGAGAAGTATAGGGTCTGAAGAACAACCTGCCTGGAACCAAAAAAGAAA
 ATCACAAGAGAGGAGTTTCAGAAAGAACTCCATCTGGATGACCACAACTCAGCAATAGGG
 AATTGGAAGAGAAATATGGCACAGACATCATTATGGGTCTCTCCAGCACCAGAGCTGCCG
 AGCTCCTGGCCCGGGATGGGCCAACTCCCTCACCCCTCCAAGCAGACGCTGAGATCG
 TCAAGTTCCTCAAGCAGATGGTGGGGGGTTCTCTATCCTCCTGTGGGTGGGCGCCTTTC
 TCTGTTGATTGCATATGGGATTCAGTACTCCAGCGACAAGTCTGCATCCCTGAACAACG
 TGTAAGGCAAAAAGCACCACATCATGTCCAGCTTCAATAAGATGATCCCTCAGCAAGCTC
 TCGTCATCCGAGATTCGAGAAGAAGACCATCCCTTCAGAGCAGCTGGTGGTGGGGGACA
 TTGTGGAGGTCAAAGGAGGAGACCAGATCCCTGCAGACATCAGGGTGTCTTCTCAGG
 GGTGTCGGGTGGATAACTCATCTCTCACGGGGAGTCTGAGCCCCAGCCCCGCTCCTCTG
 AGTTTACCCATGAAAACCCCTGGAAACAAGAACATCTGCTTCTATTCCACAACGTGTC
 TGAAGCATCTACTTCCCCTGTAGGCACTGTACCAGCATGGTTATCAACACGGGTGACC
 GCACCATCATTGGCCATATTGCCCTATTGGCCTCAGGAGTTGAAATGAGAAGACGCCCA
 TTGCCATTGAGATCGAGCACTTTGTTTACATTGTGGCAGGAGTGGCTGTCTCCATCGGCA
 TCTTTTCTTCATCATCGCTGTGTCCCTGAAGTATCAAGTCTGGACTCCATCATCTTCC
 TCATTGGCATCATTGTGGCAATGTGCCGAGGGCCTCCTGGCCACTGTCACTGTGACCC
 TGTGCTGACAGCAAAACGGATGGCCAAGAAGAACTGCCTGGTGAAGAACCTGGAGGCTG
 TGGAGACCCTCGGCTCCACCTCCATCATCTGCTCGGACAAGACTGGGACACTGACCCAGA
 ACAGGATGACAGTGGCCATCTGTGGTTCGACAATCAGATCTTTGTGGCTGACACCAGTG
 AGGACCATTCAAACCAAGTCTTTGACCAAAGCTCTAGGACTTGGGCTCCTTATCCAAGA
 TAATAACATTGTGAACCGAGCAGAGTTCAAGCCAGGACAGGAAATGTCCCATCATGA



[View online >](#)

AGAAAGCTGTGATTGGAGATGCCTCAGAAACTGCTCTTTTAAAATTCTCAGAGGTCATTT
 TGGGTGATGTGATGAAAATTAGAAAAAGAAACCGCAAAGTAGCTGAAATCCCTTTTAACT
 CTAATAATAAATTCAGCTCTCCATCCACGAGATGGATGACCCCCACGGCAAGCGCTTCC
 TCATGGTGATGAAGGGGGCCCCTGAGCGCATTCTAGAGAAATGCAGCACCATCATGATCA
 ACGGCGAGGAGCACCCACTGGACAAGAGCACTGCCAAGACCTCCACACAGCCTACATGG
 AGCTGGGCGGGTTGGGCGAGCGTGTGCTGGGTTTCTGTCACTCTACCTGCCAGCAGACG
 AGTTTCCAGAAACCTACTCATTGACATAGACGCTATGAACTTTCCGACCTCCAACCTCT
 GTTTTGTGGGACTCTTGTCAATGATCGATCCCCCTCGGTCCACCGTGCCAGATGCAGTCA
 CCAATGCCGGAGTGACAGGATCAAGGTTATTATGGTTACTGGTGATCATCCCATCACAG
 CCAAAGCTATTGCCAAGAGTGTGGGATCATTTCAGCCAACAGTGAAACAGTGGAAGACA
 TTGCACATCGCCTCAACATTGCTGTGGAGCAAGTTAACAAACGGGATGCCAAGGCCGCTG
 TGGTGACTGGCATGGAGCTGAAGACATGAGCTCAGAACAGCTGGATGAGATCTTAGCCA
 ACTACCAGGAGATTGCTTTGCCCGGACATCCCCCAGCAGAAGCTGATCATTGTGGAGG
 GCTGTCAGAGGCAGGATGCTGTTGTTGCTGTGACCGGGGATGGAGTTAATGACTCTCCG
 CTCTAAAGAAGGCAGACATTGGGATTGCCATGGGGATAGCAGGTTCTGATGCAGCCAAA
 ATGCAGCCGACATGGTCTTGCTGGACGACAACCTTCGCATCCATCGTCACAGGGGTGGAGG
 AAGGTCGCCTGATCTTTGACAACCTCAAGAAGACTATTGCTTATTCCCTGACCAAGAACA
 TTGCCGAGCTGTGCCCTTTCTGATCTACATATTGTCGGGCTCCCCCTGCCATTGGCA
 CCATCACCATTCTGTTCAATTGACTTGGGACAGACATTATCCCCTCCATTGCCTTGGCGT
 ACGAGAAAGCTGAAAGTGACATCATGAACAGGAAGCCTCGCCACAAGAATAAGGACAGGC
 TGGTGAACCAGCCGCTCGCTGTACTCATACCTGCACATTGGCCTCATGCAAGCCCTGG
 GAGCTTTCCTTGTGATTTACCCTGTATGCACAAGAGGGCTTTCTGCCCGCACTCTCA
 TTAACCTGCGGGTGAATGGGAGAAGGACTACGTGAATGACTTGAAAGACAGTATGGGC
 AGGAATGGACAAGGTACCAGAGGGAATACCTAGAATGGACGGGCTACACGGCTTTCTTTG
 TTGGCATCCTAGTCCAGCAAATAGCAGATCTGATCATCAGGAAAACCCGAGGAATTCCA
 TCTTCCAGCAGGGTCTCTCAGAAATAAAGTCATCTGGGTGGGGATCACCTCACAGATCA
 TCATTGGTCTGATCCTCTCCTATGGCCTCGGAAGTGTACAGCCTTGAGTTTACCATGC
 TTAGGGCTCAGTACTGGTTTGTGGCTGTGCCGACGCCATCCTGATCTGGGTGTATGATG
 AGGTGCGGAAGCTCTTCATCAGGCTCTACCCTGGAAGCTGGTGGGATAAGAACATGTATT
 ATTAAGACCACCTCCCTTCTATGTCTCTCAGCAGCACGTTGGGACACCTTGTTCATCT
 TCTGACCGTTTGTGGGCTATTCCCTGCAGTGCAGACATCGTAAAATTCATACAAGAG
 GAAATTTTCATGCAGAAAGCTGTATGCAGGATGCTCACTGATGTTTTGCACTTTAAAAC
 GAAATTCAACTCTTTATATAGGATTTTCTTTTCTATCTCCATCTCCTCATTAAAAAATAC
 GTACATTCGAGGTAAAAAATAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001676 unedited
 CTGGCTACCGGCTCCGGTAATCCCGGGATCGGCCGAGAGTGCCTGCAGGGCCCGCGC
 CGCCGCCGGTATCTCCACCGCAACACCTCAGCCACTGCCACTGCCACAGCCACACGAGG
 CCCCCACCGTGCCTCCGCCGCTGCGGTCCCGATCCGCGCTCCACGCCGAGCCCGC
 GGGCCACCAGCCAGCATGCACCAGAAAACCCAGAAATTTACTCCGTGGAGCTCAGCG
 GAACTAAGGACATCGTGAACAGACAAGGGGGATGGCAAGGAGAAGTATAGGGGTCTGA
 AGAACAATGCCTGGAATCAAAAAGAAAAATCACAAGAGGAGTTTTCAGAAAGAACTCC
 ATCTGGATGACCACAACTCAGCAATAGGGAATTGGAAGAGAAATATGGCACAGACATCA
 TTATGGGTCTCTCCAGCACCAGAGCTGCCGAGCTCCTGGCCCGGGATGGGCCAACTCCC
 TCACCCCTCCCAAGCAGACGCCCTGAGATCGTCAAGTTCTCAAGCAGATGGTGGGGGGG
 TTCTCTATCCTCTGTGGTGGGCGCCTTTCTCTGTTGGATTGCATATGGGATTTCAGTAC
 TCCAGCGACAAGTCTGCATCCCTGAACAACGTGTACTTGGCTGTGTGCTTGGTCTGGTG
 GTCATTTTAAACGGGATCTTTGCTTATTACCAAGAGGCANAAAGCACCAACATCATGTCC
 AGCTTCAAAAAGAGATCCCTCAGCAGCTCTCGTATCCGAGATCCGAGAAGAGGACATCC
 CTTCAAANCAACTGTGGTGGGGACATGTGGAGGCAAAGGAGAAACAATCCTGCAGACT
 CAGGGTGTGCCTCCAGGGTGTGCGTGGATACTC

Restriction Sites:

Please inquire

ACCN:	NM_001676
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_001676.3 , NP_001667.3
RefSeq Size:	3594 bp
RefSeq ORF:	3138 bp
Locus ID:	479
UniProt ID:	P54707
Cytogenetics:	13q12.1-q12.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Oxidative phosphorylation
Gene Summary:	<p>The protein encoded by this gene belongs to the family of P-type cation transport ATPases. This gene encodes a catalytic subunit of the ouabain-sensitive H⁺/K⁺ -ATPase that catalyzes the hydrolysis of ATP coupled with the exchange of H⁽⁺⁾ and K⁽⁺⁾ ions across the plasma membrane. It is also responsible for potassium absorption in various tissues. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>