

Product datasheet for **SC122571**

ATP4B (NM_000705) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP4B (NM_000705) Human Untagged Clone
Tag: Tag Free
Symbol: ATP4B
Synonyms: ATP6B
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000705 edited
GAGGGTGCAGGGAGCAGACGGGAGGATCTCAGGCCAGGGACGATGGCGGCTCTGCAGGAG
AAGAAGACGTGTGGCCAGCGCATGGAGGAGTTCAGCGTTACTGCTGGAACCCGGACACG
GGGCAGATGCTGGGCCGACCCCTGTCCCGTGGGTGTGGATCAGCCTGTACTACGTGGCC
TTCTACGTGGTGATGACTGGGCTCTTCGCCCTGTGCCTCTATGTGCTGATGCAGACAGTG
GACCCGTACACACCGGACTACCAAGACCAGCTACGGTCACCAGGGGTAACCTTAAGGCCG
GATGTTTACGGGGAGAAAGGCCTGGAAATTGTCTACAACGTCTCTGATAACAGAACCTGG
GCAGACCTCACACAGACTCTCCACGCCTTCTAGCAGGCTACTCTCCAGCAGCCAGGAG
GACAGCATCAACTGCACCTCCGAGCAGTACTTCTCCAGGAGAGTTTCCGCGCTCCCAAC
CACACCAAGTTCTCCTGCAAGTTCACGGCAGATATGCTGCAGAACTGCTCAGGCCTGGCG
GATCCCAACTTCGGCTTTGAAGAAGGAAAGCCATGTTTTATTATTAATAAATGAACAGGATC
GTCAAGTTCCTCCCAGCAACGGCTCGGCCCCAGAGTGGACTGCGCCTTCTGGACCAG
CCCCGCGAGCTCGGCCAGCCGCTGCAGGTCAAGTACTACCTCCCAACGGCACCTTCAGT
CTGCACTACTTCCCTTATTACGGGAAGAAAGCCAGCCCCACTACAGCAACCCCTGGTG
GCAGCGAAGTCTCAACATCCCAGGAACGCTGAGGTCGCCATCGTGTGCAAGGTCATG
GCAGAGCACGTGACCTTCAACAATCCCCACGACCCGTATGAAGGGAAAGTGGAGTTCAA
CTCAAGATTGAGAAGTGAACCGTTTGCAGGGGCTCTGGGCACGCCTGCGGGTCCGCT
CAAGGACACCCTCCTGGTTGGGCTTACCTTGCCCGTCAGTTCCTGCCAAATCATCCCCA
AAGTGGTTTGGAGCAACGGTGTGTGTCAGTGTGCGAACTCCAGAGAAGCGCCACATCTGA
AGGACCTGCTCGGAGTATCAGTTCCTTCTTGTGAATTCCTTACAGTTTTTATAGATGGAAT
TTGCTGCTATAAAGTATGTCAGCTACCATGGGAACGCAAGGCAGCAACTCTTAATTAAC
CAGGTCATAAAAACGATTCGTCTTCTATGTAGACATCACTTTCTACTATAATTTATTTT
TCTACACTTCAATATGAACTGCCCCCCACATTAATATAAAAACTACTAATGCACTGAT
ATGAAACACGGCTTACACTAATGACATTCTGAATTCCTGCTTTTAAAAATTGCAATTCCTA
AGTTGTAACATAAAAATATATTAAGTTACTCTTATTGTATGTAACAAAAAAAAAAAAAAAA
AA
AAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000705 unedited NAAAGTCANCAATTTGTATACGACTCATATAGGCGGCCGCGACTTCAGATCTGGTACCGGT CCGGAATCCCGGGATGAGGGTGCAGGGAGCAGACGGGAGGATCTCAGGCCAGGGACGAT GGCGGCTCTGCAGGAGAAGAAGACGTGTGGCCAGCGCATGGAGGAGTTCAGCGTTACTG CTGGAACCCGGACACGGGGCAGATGCTGGGCCGACCCCTGTCCCGGTGGGTGTGGATCAG CCTGTACTACGTGGCCTTCTACGTGGTGATGACTGGGCTCTTCGCCTGTGCCTCTATGT GCTGATGCAGACAGTGGACCCGTACACACCGGACTACCAAGACCAGCTACGGTCACCAGG GGGTAACCTTAGCCCGGTGGTTAACCGGGGAAAAGGGCCTGAAATTTGGCCACAAAGG TCTCTGAAAACAAGAAACCTGGGGGGAACCCCAAAAAAACCTTCCACCCTTTCAAAA AGGGGTTTTTTCCAGGCCCCAGGGGGAGGAGTTAATGGGGCCCCCAGAAAAATTT TTTTTTCTCAAAAAATTTTCCCCCCTCAAAAAAATTTTCCCCCGGGGT TTTCCCGGAAAAATTCGGCAAAAAATCTCCACCCCGGGGGGGCCCAACCTTTT CCTTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTTAAAAAATTTT TTTNTTTTCCCCCCCCCAAAAAAGAGGGGGCCCCCCCCAAG
Restriction Sites:	Please inquire
ACCN:	NM_000705
Insert Size:	1500 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_000705.2 , NP_000696.1
RefSeq Size:	1496 bp
RefSeq ORF:	876 bp
Locus ID:	496
UniProt ID:	P51164
Cytogenetics:	13q34
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Oxidative phosphorylation

Gene Summary:

The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H⁺, K⁺-ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes the beta subunit of the gastric H⁺, K⁺-ATPase. [provided by RefSeq, Jul 2008]