

Product datasheet for **SC120738**

ATP6V1C2 (NM_144583) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1C2 (NM_144583) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1C2
Synonyms:	ATP6C2; VMA5
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_144583, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGAGTTTTGGTTAATTTCTGCCCTGGCGATAAGGAAAATTTGCAAGCTCTGGAGAGGATGAATA
CTGTAACCTCCAAGTCCAACCTGTCTTATAATACCAAATTCGCTATTCTGACTTCAAGGTGGGGACCTT
GGATTCCCTGGTTGGCCTCTCTGATGAGTTGGGAAACTCGACACCTTTGCTGAAAGCCTCATAAGGAGA
ATGGCTCAGAGCGTGGTGAAGTCATGGAGGACTCAAAGGGGAAGGTCCAGGAGCACCTCCTGGCAAACG
GAGTTGACTTAACATCCTTTGTGACCCACTTTGAATGGGACATGGCCAAATATCCTGTCAAGCAGCCGCT
CGTGAGTGTGGTGGACACAATAGCCAAGCAACTGGCGCAGATCGAGATGGACCTGAAGTCCCGAACGGCC
GCCTACAACACTCTGAAGACAAACCTGGAGAACCTGGAAAAGAAATCCATGGGGAACCTTTCACCCGGA
CACTGAGTGATATTGTGAGCAAAGAGGACTTCGTGCTGGATTCTGAATATCTCGTCACACTTCTGGTCAT
CGTCCCCAAACCAAACTACTCACAATGGCAAAAAACCTACGAATCTCTCAGACATGGTGGTCCCTCGA
TCAACCAAACTCATTACTGAGGACAAGGAAGGGGGCCTTTTCACTGTGACTCTGTTTCGAAAAGTGATTG
AAGATTTCAAACCAAGGCCAAAGAAAACAAGTTCAGTGTTCGTGAATTTTACTATGATGAGAAGGAAAT
TGAAAGGGAAAGGGAGGAGATGGCCAGATTGCTGTCTGATAAGAAGCAACAGTATGGCCCCCTGCTGCCG
TGGCTCAAGGTGAACCTCAGTGAAGCCTTCATTGCCTGGATCCACATCAAGGCCCTGAGAGTGTTTGTGG
AGTCCGTGCTCAGGTATGGACTACCAGTGAACCTCCAGGCAAGTCTCCTGCGAGCCGATAAGAAGTCATC
CACCAAGCGTTTAAAGAGAGGTTCTAAACTCTGTCTTCCGACATCTGGATGAAGTAGCCGCTACAAGTATA
CTGGATGCATCTGTGGAGATCCCGGGACTGCAACTCAATAACCAAGACTATTTTCTTATGTCTACTTCC
ATATTGACCTTAGTCTTCTTGACTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_144583 unedited NGGTTACGATATTTGTATACGACTTACTATAGNNGCGCGCCGCAATTCGGCACCAGA AAGACTGGAAGCATGTCCGAGTTTTGGTTAATTTCTGCCCTGGCGATAAGGAAAATTTG CAAGCTCTGGAGAGGATGAATACTGTAACCTCCAAGTCCAACCTGTCTTATAATACAAA TTCGCTATTCTGACTTCAAGGTGGGGACCTTGGATTCCCTGGTTGGCCTCTCTGATGAG TTGGGGAAACTCGACACCTTTGCTGAAAGCCTCATAAGGAGAATGGCTCAGAGCGTGGTG GAAGTCATGGAGGACTCAAAGGGGAAGGTCCAGGAGCACCTCTGGCAAACGGAGTTGAC TTAACATCCTTTGTGACCCACTTTGAATGGGACATGGCCAAATATCCTGTCAAGCAGCCG CTCGTGAGTGTGGTGGACACAATAGCCAAGCAACTGGCGCAGATCGAGATGGACCTGAAG TCCCGAACGGCCCTACGACACTCTGAAGACAAACCTGGAGAACCTGGAAAAGAAATCC ATGGGGAACCTCTTACCCGGACACTGAGTGATATTGTGAGCAAAGAGGACTTCGTGCTG GATTCTGAATATCTCGTCACTTCTGGTCATCGTCCCCAAACAACTACTCACAATGG CAAAAACCTACGAATCTCTCAGACATGGTGGTCCCTCGATCAACCAAACTCATTACT GANGACAANGAANGNGCCCTTTTACTGTGACTCTGTTTCGAAAAGTGATTGAAGATTTT AAAACCAAGCCAAAGAAAACAAGNNTCACTGTCTGAATTTTACTATGATGAGAAGGAA ATTGAAAGNAAAAGGANNGAGATGCCANNATTGCTGTCTGATAAGAAGCACAGTATGGN CCCCTGTGTCNGCTGCTCAAGGTGAACCTCAGTGAAGCCTTCATGCCTGGATCCCATCAA GCCCTGAAATGTTTTGTGGATA
Restriction Sites:	NotI-NotI
ACCN:	NM_144583
Insert Size:	3000 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_144583.2 , NP_653184.2
RefSeq Size:	3112 bp
RefSeq ORF:	1146 bp
Locus ID:	245973
UniProt ID:	Q8NEY4
Cytogenetics:	2p25.1
Domains:	V-ATPase_C

- Protein Pathways:** Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
- Gene Summary:** This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. This gene encodes alternate transcriptional splice variants, encoding different V1 domain C subunit isoforms. [provided by RefSeq, Jul 2008]
- Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.