

Product datasheet for **SC117488**

ATP6V1F (NM_004231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1F (NM_004231) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1F
Synonyms:	ATP6S14; VATF; Vma7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_004231 edited ATGGCGGGGAGGGTAAAGCTCATCGCAGTGCAGAGACGAGGACACGGTGACTGGTTTC CTGCTGGGCGGCATAGGGGAGCTTAACAAGAACCGCCATCCCAATTTCTGGTGGTGGAG AAGGATACAACCATCAATGAGATCGAAGACACTTCCGGCAATTTCTAAACCGGGATGAC ATTGGCATCATCCTCATCAACAGTACATCGCAGAGATGGTGCGGCATGCCCTGGACGCC CACCAGCAGTCCATCCCCGCTGTCTGGAGATCCCCTCCAAGGAGCACCCATATGACGCC GCCAAGGACTCCATCCTGCGCAGGGCCAGGGGCATGTTCACTGCCGAAGACCTGCGCTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004231 unedited CACGAGGCTTCTGGTGTCTAGGGTGAGCTCTGCCCGGCTGCAGGGATGGCGGGGAGGG GTAAGCTCATCGCAGTGCAGAGACGAGGACACGGTGACTGGTTTCTGCTGGGCGGCA TAGGGGAGCTTAACAAGAACCGCCATCCCAATTTCTGGTGGTGGAGAAGGATACAACCA TCAATGAGATCGAAGACACTTCCGGCAATTTCTAAACCGGGATGACATTGGCATCATCC TCATCAACAGTACATCGCAGAGATGGTGCGGCATGCCCTGGACGCCACCAGCAGTCCA TCCCCGCTGTCTGGAGATCCCCTCCAAGGAGCACCCATATGACGCCGCCAAGGACTCCA TCCTGCGCAGGGCCAGGGGCATGTTCACTGCCGAAGACCTGCGCTAGGGGACTCCTCATA GCCCTCAGCCCTCCCTCGTTTCCAGGCCCTCCCCAGGCTTGCCATCAGCCTTCTTTAC TTTTTGAGCCTCTGATTTCCAATCCCTGCTCCTCCCACTCCATTAAGAGGCTAGGTGA GGCGCTTCTAGGTTGCTGGGGCTCTGCTGGTTAAGGAACAGGAAGCCTGACCATCT



[View online »](#)

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004231 unedited NATGGCACTTCCAGGGCCAGNANAGCACTGGGGAGGGGTACAGGNATGCCACCCGGGAT CTGTTCCAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTT TTTGGAGAGAAGCAAGAATGACTTTAATTTAACATCAACAATGACACTGTGTAACAGC ACAGGGAAGAGGTAGTGGAGGGAGATGGTCAGGCTTCTGTTCTTAACCAGCAGAGCCC CAGCAACCTAGAAGCGCCTCACCTAGCCTCTTAATGGAGTGGGAAGGAGCAGGGAATTGG AAATCAGAGGCTCAAAAAGTAAAGAAGGCTGATGGCAAGCCTGGGGAGAGGCCTGGAAAC GAGGGAAGGGCTGAGGGCTATGAGGAGTCCCCTAGCGCAGGTCTTCGGCAGTGAACATGC CCCTGGCCCTGCGCAGGATGGAGTCCTTGGCGGCGTCATATGGGTGCTCCTTGGAGGGGA TCTCCAGGACAGCGGGATGGACTGCTGGTGGGCGTCCAGGGCATGCCGCACCATCTCTG CGATGTACTGGTTGATGAGGATGATGCCAATGTCATCCCGGTTTAGAAATTGCCGAAAG TGTCTTCGATCTCATTGATGGTTGTATCCTTCTCCACCACCAGGAAATGGGATGGGCGGT TCTTGTTAAGCTCCCCTATGCCGNCAGCANGAAACCAGNTCACCGTGCCTCGTCTCCG ATCACTGGGGATGAGCTTACCCCTCCCGCCATTCTGNAGNCGGGCAGAGCTCACCTA NAGCACAGAAGCCCTCGTGCCGAATCGCCGGCGGCCTATAGGGAGTCCTATACAAAAATT TGACGGTTACTAAACAGCTCTGCTATTAGACCTCCACCG
Restriction Sites:	NotI-NotI
ACCN:	NM_004231
Insert Size:	730 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_004231.2 , NP_004222.2
RefSeq Size:	691 bp
RefSeq ORF:	360 bp
Locus ID:	9296
UniProt ID:	Q16864
Cytogenetics:	7q32.1
Domains:	ATP-synt_F
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 and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c", and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is the V1 domain F subunit protein. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) is the predominant transcript.