

Product datasheet for **SC127747**

ATP6V0A2 (AK056800) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0A2 (AK056800) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V0A2
Synonyms:	A2; ARCL; ARCL2A; ATP6A2; ATP6N1D; J6B7; RTF; STV1; TJ6; TJ6M; TJ6S; VPH1; WSS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK056800, the custom clone sequence may differ by one or more nucleotides

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ACATTTATTCTGCTGGATTTAAAAATATGTACTTTTTTTTTTTTTGAGATGAAGTCTTGCTGTGCAGT
AGGCTGGAGTGCAATGGCAGCATCGTGTCTCATTGCAACTCCGCCTCCTGGATTGAGTATTCTCCTG
TCTCAGCCTCCCGAGTAAGTGGGATTACAGGCATGCGCCACCGTGACCAGCTAATTTTTTTGATTTTTG
TAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTTCTGACCTCAAGTGATCCACCTGCCTC
GGCCTCCCTAAGTCTGGGATTACAGGCGTGAGCCACCATGCCTGGCCAAAATATGCAAATATTTTTTAT
CCTGTGCTACCTAGAATTACAAGTAGAGGATTGTTTTACAATTTGTCTTGTTTTAGTAATTGGGGACA
ATGGGATAAAAATGACATACAACAAATGGTTATCCCACTGTATATTTTTTAAAGACTCTTATCCTGTTA
CCCTTACATAAAAACAGTTATGATAATTGTATGTTTGAAGATAAATTGTATGCTGAGCCTAAAACCCA
GTGTGACTGTAGAAGATAAATGCGGACATGATTTGAATTTAGTGACAGCTTGGCTGATGCTACTGAACC
AGAAGGGTTTACTGAGTGAAGGAAAGGTAAGGAGCAGTATTTTGTATTTTTGTAAACAAAATATAAA
TGAAGATATTTTACCATGAAGAGATTGCACTTATCCTTGAGAACAGTCTAAATATAAATGAAGATATTTT
ACCATGAAGAGATTGCACTTATCCTTGAGAACAGTCTAATGATACTTTTTTACTTTTCAGACTGTTTCTA
GCTAAAAGTTCTGATAAAAAGTATTGAGTTAATTTAACTTTCAAACACTGTTTAGATCAGTTGAAAACAA
TTCTTAATAGCCATTGTTTTATAATCTTTAGTTTAAATTCATCTGTTGACATTTGGTTTTTTGTGAACT
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TAAAAGGCTATTTGCCCGCATCCTCCTATCCTGTTTCGAGGTAGAGAGCTTGGCACTTCTGTTACAA
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GTTACCCAAGGCCAGTTTGGACTTACTGCTTTTTGTCCCTCATATTAATTATCAAATGATGCCGATGAA
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AAGCCCAAGACTTCAGGGCACTGTTAGCTGATTGGTAAATAAGGGACACGATATTCACGGGAATGTTTA
CTGCTCCCCTAGTAATTCTCATGGGGCCACTTTTTAACTCTTTCTAATTAACACCTCTTCTCAGCAT
AGAGCAGAGGATGCAGTCATTTCTGTTGAAATCTATGTAGTATTTATGTAGAATGTCATTATATGAAA
AGCGAATTCAGAAATCCTAACTCTGGGAAAGCGCTCTCTGAAATGTAGTTTGATAATAGTGTCTTATAGG
GGCCACGGGAATTTGTTTCTATAAAGCGATGGGCTCCAGTGTCATGTTACCAGAGTTATCGCTCAGTT
TTGTTTGTAAAGGCTTTTGTAGAACCTATTATGTATCCAGTTTTTAAAACATACTTCATCCCTTGATA
GCAGAGATCCAGAGCACAGATGGCAAGTTGTGTGGATGATACTGAATATGTTATTTTCTAAAGATAAAA
TGTACGACACGACATTTCTCAGTTTTTATTTAGATGTTTATTACCATGTGTTAACAGAATCTTAAACC
CAAGGGATTTCTCAGTAAACTAGACTTTGATTC
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK056800 unedited GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGATTATTTTCAAAAAGAA ACCTGACTTTTTTTCACCTTCTTGACATTGTGAGTGATACACGTTAAAAGGCTATTTGCC CGCATCCTCCTCTATCCTGTTTCGAGGTAGAGAGCTTGGCACTTCTGTTACAAGCTGAGA GTCTGGAGGTGCTGAGTTAACGTGGCTGTGCAGCTGATTTCAAGGCATGAGCTGAACAG CGTTGACACAGCCGTGACTTACAATTAACCCCTTCAATTACAGTACAGATTCTGTGTGC TACTTGATGAGATGTTACCCAAGGCCAGTTGGACTTACTGCTTTTTGTCCCTCATATTA AATTATCAAATGATGCCGATGAAATGCTTGAAAATGATTCTGCTCAAAGTTATGCTTC CCTAGAAAAGTGTGATGTCGGGCACTTGTGTTGGGTGACTATGACATCCCAGCAGTGCTG GTCAGGTCTCAGAGTTGCTTTCACCTAGAGCTGATGCTTCCACAAGGGGACATTTGTGTT ACTTTGCTCCAGGGTCTGTCATAAAAAACAATGGTAACTACTTCCCTAGGAAGCCCA AGACTTCAGGGCACTGTTAGCTGATTGGTAAATAAGGGACACGATATTCACGGGAATTGT TTAAGTCTCCCACTAGTAATTCTCATGGGGCCACTNTNTAACTCTTTCTAATTAACAC CTCTTCTCAGCATAGAGCAGAGGATGCAGTCATTTCTCTGGTGAATCTATGTAGTATTTA TGTAGAATGTNCATATATGAAAAGCGAATCAGAATCCTACTCTGAAAAGCGCTCTCTGGA AAGTAGNTGATATAGTGCTTATAGGGCACGGNAANTTGNTCTCTTAAGCGATGGCTCCAG NGTCATGTACAGATTTACGTCAGTTTGT
Restriction Sites:	NotI-NotI
ACCN:	AK056800
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:	AK056800.1
RefSeq Size:	2204 bp
RefSeq ORF:	2204 bp
Locus ID:	23545
Cytogenetics:	12q24.31
Protein Families:	Transmembrane
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

Gene Summary:

The protein encoded by this gene is a subunit of the vacuolar ATPase (v-ATPase), an heteromultimeric enzyme that is present in intracellular vesicles and in the plasma membrane of specialized cells, and which is essential for the acidification of diverse cellular components. V-ATPase is comprised of a membrane peripheral V(1) domain for ATP hydrolysis, and an integral membrane V(0) domain for proton translocation. The subunit encoded by this gene is a component of the V(0) domain. Mutations in this gene are a cause of both cutis laxa type II and wrinkly skin syndrome. [provided by RefSeq, Jul 2009]