

Product datasheet for **SC308683**

ATP6V1H (NM_213620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1H (NM_213620) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1H
Synonyms:	CGI-11; MSTP042; NBP1; SFD; SFDalpha; SFDbeta; VMA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC308683 representing NM_213620.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCAAAATGGATATCCGAGGTGCTGTGGATGCTGTCCCCACCAATATTATTGCTGCCAAGGCT
GCAGAAGTTCGTGCAAACAAAGTCAACTGGCAATCCTATCTTCAGGGACAGATGATTTCTGCTGAAGAT
TGTGAGTTTATTAGAGGTTTAAATGAAACGAAGCCCTGAAGAGAAGCAAGAGATGCTTCAAACCTGAA
GGCAGCCAGTGTGCTAAAACATTTATAAATCTGATGACTCATATCTGCAAAGAACAGACCGTTCAGTAT
ATACTAACTATGGTGGATGATATGCTGCAGGAAAATCATCAGCGTGTAGCATTCTTTGACTATGCA
AGATGTAGCAAGAACACTGCGTGGCCCTACTTTCTGCCAATGTTGAATCGCCAGGATCCCTTCACTGTT
CATATGGCAGCAAGAATTATTGCCAAGTTAGCAGCTTGGGGAAAAGAAGTATGGAAGGCAGTGACTTA
AATTACTATTTCAATTGGATAAAAACCTAGCTGAGTTCACAGAACTGCGTGGTAGCGGTGTTGCTGTT
GAAACAGGAACAGTCTCTTCAAGTGATAGTTCGCAGTATGTGCAGTGCCTGGCCGGGTGTTGCAGCTG
ATGCTCCGGGTCAATGAGTACCGCTTTGCTTGGGTGGAAGCAGATGGGGTAAATTGCATAATGGGAGTG
TTGAGTAAACAAGTGTGGCTTTCAGCTCCAGTATCAAATGATTTTTTCAATATGGCTCCTGGCATTCACT
CCTCAAATGTGTGAACACCTGCGGCGCTATAATATCATTCCAGTCTGTCTGATATCCTTCAGGAGTCT
GTCAAAGAGAAAGTAACAAGAATCATTCTTGCAGCATTTCGTAACTTTTAGAAAAATCAACTGAAAGA
GAAACTCGCCAAGAATATGCCCTGGCTATGATTCAAGTCAAAGTCTGAAACAGTTGGAGAACTGGAA
CAGCAGAAGTACGATGATGAAGATATCAGCGAAGATATCAAATTTCTTTGGAAAACTGGAGAGAGT
GTCCAGGACCTTAGTTCATTTGATGAATACAGTTCAGAACTTAAATCTGGAAGGTTGGAATGGAGTCTT
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AAAATCTTGACAAAATTTTGGAAAGTGCAGATGATCCCAAGTCTTAGCTGTTGCTGCTCAGCATGTT
GGAGAATATGTGCGGCATTATCCACGAGGCAAACGGGTATCGAGCAGCTCGGTGGGAAGCAGTGGTC
ATGAACCACATGCATCATGAAGACCAGCAGGTCCGCTATAATGCTCTGCTGGCCGTGCAGAACTCATG
GTGCACAACTGGGAATACCTTGGCAAGCAGCTCCAGTCCGAGCAGCCCCAGACCGCTGCCGCCGAAGC
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- Plasmid Map:** □
- ACCN:** NM_213620
- Insert Size:** 1452 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_213620.2
RefSeq Size:	2080 bp
RefSeq ORF:	1452 bp
Locus ID:	51606
UniProt ID:	Q9UI12
Cytogenetics:	8q11.23
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
MW:	55.9 kDa
Gene Summary:	<p>This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular organelles. V-ATPase-dependent organelle acidification is necessary for multiple processes including protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. The encoded protein is the regulatory H subunit of the V1 domain of V-ATPase, which is required for catalysis of ATP but not the assembly of V-ATPase. Decreased expression of this gene may play a role in the development of type 2 diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1 and 3 encode the same isoform (1).</p>