

## Product datasheet for **SC308682**

### ATP6V1H (NM\_213619) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1H (NM_213619) 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:** >SC308682 representing NM\_213619.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCAAAATGGATATCCGAGGTGCTGTGGATGCTGTGTCCCCACCAATATTATTGCTGCCAAGGCT
GCAGAAGTTCGTGCAAACAAGTCAACTGGCAATCCTATCTTCAGGGACAGATGATTTCTGCTGAAGAT
TGTGAGTTTATTAGAGGTTTAAATGAAACGAAGCCCTGAAGAGAAGCAAGAGATGCTTCAAACAGAA
GGCAGCCAGTGTGCTAAAACATTTATAAATCTGATGACTCATATCTGCAAAGAACAGACCGTTTCAGTAT
ATACTAATATGGTGGATGATATGCTGCAGGAAAATCATCAGCGTGTAGCATTTCCTTTGACTATGCA
AGATGTAGCAAGAACACTGCGTGGCCCTACTTTCTGCCAATGTTGAATCGCCAGGATCCCTTCACTGTT
CATATGGCAGCAAGAATTATTGCCAAGTTAGCAGCTTGGGGAAAAGAAGTATGGAAGGCAGTGACTTA
AATTACTATTTCAATTGGATAAAAACTCAGCTGAGTTCACAGAGTTCGCAGTATGTGCAGTGCCTGGCC
GGGTGTTTGCAGCTGATGCTCCGGGTCAATGAGTACCGCTTTGCTGGGTGGAAGCAGATGGGTAAAT
TGCATAATGGGAGTGTGAGTAAACAAGTGTGGCTTTCAGCTCCAGTATCAAATGATTTTTTCAATATGG
CTCCTGGCATTAGTCCCAAATGTGTGAACACCTGCGGCGCTATAATATCATTCCAGTTCTGTCTGAT
ATCCTTCAGGAGTCTGTCAAAGAGAAAAGTAAACAAGAATCATTCTTGACGATTTTCGTAACTTTTAGAA
AAATCAACTGAAAGAGAAAAGTCCGCAAGAATATGCCCTGGCTATGATTCAAGTCAAAGTTCTGAAACAG
TTGGAGAAGTGGAAACAGCAGAAGTACGATGATGAAGATATCAGCGAAGATATCAAATTTCTTTGGAA
AACTTGGAGAGAGTGTCCAGGACCTTAGTTTCATTTGATGAATACAGTTCAGAAGTAAATCTGGAAGG
TTGGAATGGAGTCTGTGCACAAATCTGAGAAAATTTGGAGAGAGAATGCTGTGAGGTAAATGAGAAG
AATTATGAACTCTTAAAACTTGACAAAATTTTGAAGTGTGAGTATGATCCCAAGTCTTAGCTGTT
GCTGCTCAGATGTTGGAGAATATGTGCGGCATTATCCACGAGGCAACGGGTTCATCGAGCAGCTCGGT
GGGAAGCAGCTGGTCAATGAACCATGCATCAAGACAGCAGGTCGCTATAATGCTCTGCTGGCC
GTGCAGAAGCTCATGGTGCACAACCTGGGAATACCTTGGCAAGCAGCTCCAGTCCGAGCAGCCCCAGACC
GCTGCCGCCGAAGCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_213619

**Insert Size:** 1398 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_213619.2</u>
<b>RefSeq Size:</b>	2132 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	51606
<b>UniProt ID:</b>	<u>Q9UI12</u>
<b>Cytogenetics:</b>	8q11.23
<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>MW:</b>	54.2 kDa
<b>Gene Summary:</b>	<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 (2) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>