

Product datasheet for **RG218081**

ATP6V1H (NM_213619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1H (NM_213619) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP6V1H
Synonyms:	CGI-11; MSTP042; NBP1; SFD; SFDalpha; SFDbeta; VMA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218081 representing NM_213619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAAAATGGATATCCGAGGTGCTGTGGATGCTGCTGTCCCAACAATATTATTGCTGCCAAGGCTG
 CAGAAGTTCGTGCAAAACAAGTCAACTGGCAATCCTATCTTCAGGGACAGATGATTTCTGCTGAAGATTG
 TGAGTTTATTCAGAGTTTAAAATGAAACGAAGCCCTGAAGAGAAGCAAGAGATGCTTCAAACCTGAAGGC
 AGCCAGTGTGCTAAAACATTTATAAATCTGATGACTCATATCTGCAAAGAACAGACCGTTTCAATATAC
 TAACTATGGTGGATGATATGCTGCAGGAAAATCATCAGCGTGTAGCATTCTTTGACTATGCAAGATG
 TAGCAAGAACACTGCGTGGCCCTACTTTCTGCCAATGTTGAATCGCCAGGATCCCTTCACTGTTCATATG
 GCAGCAAGAATTATTGCCAAGTTAGCAGCTTGGGAAAAGAAGTATGGAAGGCAGTGACTTAAATTACT
 ATTTCAATTGGATAAAAACCTCAGCTGAGTTCACAGAGTTCGAGTATGTGCAGTGCCTGGCCGGGTGTT
 GCAGCTGATGCTCCGGTCAATGAGTACCGCTTTGCTTGGGTGGAAGCAGATGGGGTAAATTGCATAATG
 GGAGTGTGAGTAAACAGTGTGGCTTTCAGCTCCAGTATCAAATGATTTTTTCAATATGGCTCCTGGCAT
 TCAGTCTCAAATGTGTGAACACCTGCGGCGCTATAATATCATTCCAGTTCTGTCTGATATCCTTCAGGA
 GTCTGTCAAAGAGAAAAGTAAACAAGAACATTCTTGCAGCATTTCGTAACCTTTTTAGAAAAATCAACTGAA
 AGAGAACTCGCCAAGAATATGCCCTGGCTATGATTCAGTGCAAAGTTCTGAAACAGTTGGAGAAGTTGG
 AACAGCAGAAGTACGATGATGAAGATATCAGCGAAGATATCAAATTTCTTTGGAAAACTTGGAGAGAG
 TGTCAGGACCTTAGTTCATTTGATGAATACAGTTCAGAACTTAAATCTGGAAGTTGGAATGGAGTCTT
 GTGCACAAATCTGAGAAATTTGGAGAGAGAATGCTGTGAGGTTAAATGAGAAGAATTATGAACTTTGA
 AAATCTTGACAAAATTTTGGAAAGTGTGAGTATCCCCAAGTCTTAGCTGTTGCTGCTCAGCATGTTGG
 AGAATATGTGCGCATTATCCACGAGGCAACCGGTCATCGAGCAGCTCGGTGGGAAGCAGCTGGTCATG
 AACACATGCATCATGAAGACCAGCAGGTCCGCTATAATGCTCTGCTGGCCGTGCAGAAGCTCATGGTGC
 ACAACTGGGAATACCTTGGCAAGCAGCTCCAGTCCGAGCAGCCCCAGACCCTGCGCCCGGAAGC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218081 representing NM_213619
 Red=Cloning site Green=Tags(s)

MTKMDIRGAVDAAVPTNIIAAKAAEVRANKVNWQSYLQGMISAEDCEFIQRFEMKRSPEEKQEMLQTEG
 SQCAKTFINLMTHICKEQTVQYILTMVDDMLQENHQRVSIFFDYARCSKNTAWPYFLPMLNRQDPFTVHM
 AARIIAKLAAWGKELMEGSDLNYYFNWIKTQLSSQSSQYVQCVAGCLQLMLRVNEYRFAWVEADGVNCIM
 GVL SNKCGFQLQYQMIFSIWLLAFSPQMCEHLRRYNIIPVLSLILQESVKEKVTRIILAAFRNFLEKSTE
 RETRQEYALAMIQCKVLKQLENLEQQKYDDEDI SEDIKFLLLEKLGESVQDLSSFDEYSSELKSGRLEWSP
 VHKSEKFWRENAVRLNEKNYELLKILTKLLEVSDDPQVLAVAHADVGEYVRHYPRGRVIEQLGGKQLVM
 NHMHEDQVRYNALLAVQKLMVHNWEYLKQLQSEQPQTAAARS

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2649_e04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_213619

ORF Size: 1395 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 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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.

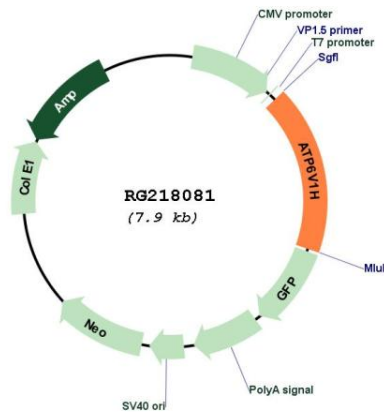
RefSeq: [NM_213619.2](#), [NP_998784.1](#)

RefSeq Size: 2111 bp
 RefSeq ORF: 1398 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

Gene Summary: 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]

Product images:



Circular map for RG218081