

## Product datasheet for SC111594

### ATP6V1G2 (NM\_130463) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V1G2 (NM_130463) Human Untagged Clone
Tag:	Tag Free
Symbol:	ATP6V1G2
Synonyms:	ATP6G; ATP6G2; NG38; VMA10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111594 sequence for NM_130463 edited (data generated by NextGen Sequencing)

```
ATGGCCAGTCAGTCCCAAGGTATCCAGCAGCTTCTGCAAGCTGAGAAGCGGGCAGCTGAG
AAGGTGGCAGATGCCAGAAAGAGGAAGGCCCGGCGACTGAAGCAGGCAAAGGAGGAGGCA
CAGATGGAGGTGGAGCAATACCGCAGAGAGCGAGAGCACGAATCCAGAGCAAGCAGCAG
GCGGCCATGGGCTCCCAGGGGAACCTGTCTGCTGAGGTGGAGCAGGCTACAAGGCCCCAG
GTGCAGGGCATGCAGAGCTCCCAGCAGAGAAACCGAGAGCGTGTCTGGCCAGCTTCTT
GGCATGGTCTGCGACGTCAGGCCCCAGGTCCACCCCAACTACCGGATTTCTGCCTAG
```

Clone variation with respect to NM\_130463.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_130463 unedited GTAACGTCAAATTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGCAGA AATGGCCAGTCAGTCCCAAGTATCCAGCAGCTTCTGCAAGCTGAGAAGCGGGCAGCTGAG AAGGTGGCAGATGCCAGAAAGAGGAAGGCCCGGCGACTGAAGCAGGCAAAGGAGGAGGCA CAGATGGAGGTGGAGCAATACCGCAGAGAGCGAGAGCACGAATCCAGAGCAAGCAGCAG GCGGCCATGGGCTCCCAGGGGAACCTGTCTGCTGAGGTGGAGCAGGCTACAAGGCCCCAG GTGCAGGGCATGCAGAGCTCCCAGCAGAGAAACCGAGAGCGTGTCTGGCCAGCTTCTT GGCATGGTCTGCGACGTCAGGCCCCAGGTCCACCCCAACTACCGGATTTCTGCCTAGGGC CACCGTAGGGCCTGACTCCTTCTGCCAGTTCCTCCCTCAAAGAAATCCTCCAATCAAAA TCACCTCCCACCAATAATCCCTGTCTTTCCATCCCCTAGAAATCCTGGGAGGCAGGAT CCAATAATTTTCTGTGACACTTATAAATATCCTGCTCACATCTGAATCTCCTTGTGTGT CTTTAACCTCACTGGGACTTTGTAACCTTCCAAGTCATTCTCACCTAAACCTCTGTGA AATTTGTAATATGGGGAAGTAGGAATGTGGAACATCCTGACTTCAGTGTCTGGCCGAT GTGGGTCCCTCTTTGACCCTGTCACTTTGCTGCTGTGAAACCGAGACAAGCTACTTAAC TTGGTAGCCTCGATGTCTCCTTTTGTGAACTGGGGATGATTATAATGCCTACCTTGTG GAGGGTTGCTTCAATGATTTAGGATCATCTGTAAGTCTAACACAG
------------------------------	---



[View online »](#)



<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>Gene Summary:</b>	<p>This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular compartments of eukaryotic cells. V-ATPase dependent 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 one of three V1 domain G subunit proteins. This gene had previous gene symbols of ATP6G and ATP6G2. Alternatively spliced transcript variants encoding different isoforms have been described. Read-through transcription also exists between this gene and the downstream DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B (DDX39B) gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>