

Product datasheet for **MG200546**

Atp6v1g1 (NM_024173) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6v1g1 (NM_024173) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Atp6v1g1
Synonyms: 1810024D14Rik; AA960677; Atp6g1; ATP6J; VAG1; Vma10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200546 representing NM_024173
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGTCAGTCGAGGGCATCCAGCAGCTACTGCAGGCCGAGAAGCGGGCCGCCGAGAAGGTGTCCG
AGGCCCGCAAGCGAAAGAACCGGAGGCTGAAGCAGGCCAAAGAAGAAGCCAGGCTGAAATTGAACAGTA
CCGCCTGCAGAGGGAGAAGGAGTTCAAGGCCAAGGAAGCTGCGGCATTGGGCTCCCATGGCAGCTGCAGC
AGTGAGGTGAAAAGGAGACCCGGGAGAAGATGACCGTCCTCCAGAACTACTTCGAGCAGAACAGGGATG
AAGTCCTGGATAACCTCTTGGCCTTTGTGTGTGACATCCGGCCGAAATCCATGAAAACACCGCATAAA
CGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200546 representing NM_024173
Red=Cloning site Green=Tags(s)
MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEAAALGSHGSCS
SEVEKETREKMTVLQNYFEQNRDEVLDNLLAFVCDIRPEIHENYRING

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

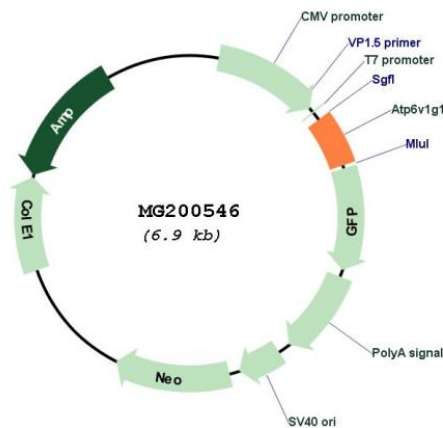


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Cloning Scheme:



Plasmid Map:



ACCN: NM_024173

ORF Size: 354 bp

OTI Disclaimer: 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:	<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:	<u>NM_024173.2</u> , <u>NP_077135.1</u>
RefSeq Size:	1104 bp
RefSeq ORF:	357 bp
Locus ID:	66290
UniProt ID:	<u>Q9CR51</u>
Cytogenetics:	4 B3
Gene Summary:	Catalytic subunit of the peripheral V1 complex of vacuolar ATPase (V-ATPase). V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells. In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation (By similarity).[UniProtKB/Swiss-Prot Function]