

Product datasheet for MR200546

Atp6v1g1 (NM_024173) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atp6v1g1 (NM_024173) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atp6v1g1
Synonyms: 1810024D14Rik; AA960677; Atp6g1; ATP6J; VAG1; Vma10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200546 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGAGTCAGTCGCAGGGCATCCAGCAGCTACTGCAGGCCGAGAAGCGGGCCGCCGAGAAGGTGTCCG
 AGGCCCGCAAGCGAAAGAACCGGAGGCTGAAGCAGGCCAAAGAAGAAGCCAGGCTGAAATTGAACAGTA
 CCGCCTGCAGAGGGAGAAGGAGTTCAAGGCCAAGGAAGCTGCGGCATTGGGCTCCCATGGCAGCTGCAGC
 AGTGAGGTGAAAAGGAGACCCGGGAGAAGATGACCGTCCTCCAGAACTACTTCGAGCAGAACAGGGATG
 AAGTCCTGGATAACCTCTTGGCCTTTGTGTGTGACATCCGGCCGAAATCCATGAAAACCTACCGCATAAA
 CGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200546 protein sequence
 Red=Cloning site Green=Tags(s)
 MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEAAALGSHGSCS
 SEVEKETREKMTVLQNYFEQNRDEVLDNLLAFVCDIRPEIHENYRING

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_024173

ORF Size: 357 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:**
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_024173.2](#), [NP_077135.1](#)

RefSeq Size: 1109 bp

RefSeq ORF: 357 bp

Locus ID: 66290

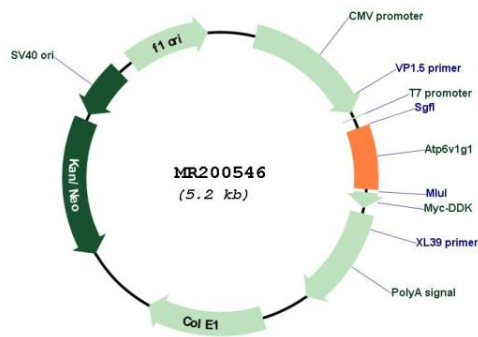
UniProt ID: [Q9CR51](#)

Cytogenetics: 4 B3

MW: 13.7 kDa

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]

Product images:



Circular map for MR200546