

Product datasheet for **MG205301**

Atp6v0d2 (NM_175406) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Atp6v0d2 (NM_175406) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Atp6v0d2 |
| Synonyms: | 1620401A02Rik; AI324824; V-ATPase |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG205301 representing NM_175406 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGAGACTGCAGAGCTGTACTTCAATGTGGACCATGGCTACCTGGAGGGCCTGGTTTCGAGGATGCA
AAGCCAGCCTCCTAACTCAGCAGGACTATGTCAACCTAGTGCAGTGTGAGACCTTGAAGACCTGAAAAAT
TCATCTCCAGACCACGGACTATGGCAACTTCTGGCTAATGAAACAAATCCTCTCACTGTTTCCAAAATT
GACACGGAGATGAGGAAGAAGCTCTGCAGAGAGTTTGACTATTTCCGGAATCATTCTTGGAGCCCCTGA
GCACATTTCTCACCTACATGACATGCAGCTATATGATAGACAATAAATTCTACTTATGAATGGGCCTT
GCAAAAGAAATCTGTGAAAGAAGTTCTAGCCAAGTGCACCCACTGGGCCGTTTACAGAGATGGAAGCT
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TTCAAGATTGTATGTCTGAAAACACTCTTGATGAACTGAATATTGAATTACTGCGCAATAAACTATACAA
GTCTTACCTTGAGGCATTCTACAAATTCTGCAAGGATCACGGTGTATGTCACAGCAGACGTTATGTGTCC
ATTCTTGAGTTTGAGGCCGACAGACGCGCTTAAATCATCACTCTGAACTCATTGGCACTGAACTAAGCA
AGAAGACAGGGAGACCCTTCCCCACCTGCGGCAGGCTCTATCCAGAGGGGTTGCGGTTGTTAGCTCA
AGCTGAAGACTTTGAGCAGATGAAGAGAGTGGCAGATAAATTATGGAGTTTACAAGCCTTTGTTGACGCT
GTCGGTGGCAGTGGGGGAAGACTGGAAGACGTTTTCTATGAGAGAGAGGTACAGATGAATGTGCTGG
CATTCAACAGGCAATTCATTATGGTGTGTTTTATGCGTATGTAAGTTGAAGGAGCAAGAGATGAGAAA
TATCGTGTGGATAGCAGAATGCATCTCACAGGCGATCGAACTAAAATCAACAGCTACATTCCAATTTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205301 representing NM_175406
 Red=Cloning site Green=Tags(s)

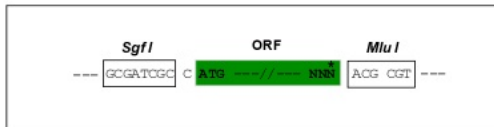
MLETAELYFNVDHGYLEGLVRGCKASLLTQQDYVNLVQCETLEDLKIHLQTTDYGNFLANETNPLTVSKI
 DTEMRRKLCREFDYFRNHSLEPLSTFLTYMTCASYMIDNIILLMNGALQKKSVEVLAKCHPLGRFTEMEA
 VNIAETPSDLFKAVLVEPLAPFFQDCMSENTLDELNIELLRNKLYKSYLEAFYKFCKDHGDVTDVMCP
 ILEFEADRRALIIITLNSFGTELKEDRETLFPTCGRLYPEGLRLLAQAEDFEQMKRVADNYGVYKPLFDA
 VGGSGGKTLIEDVFYEREVQMNVLAFNRQFHYGVFYAYVKLKEQEMRNIVWIAECISQRHRTKINSYIPIL

TRTRPLE - GFP Tag - V

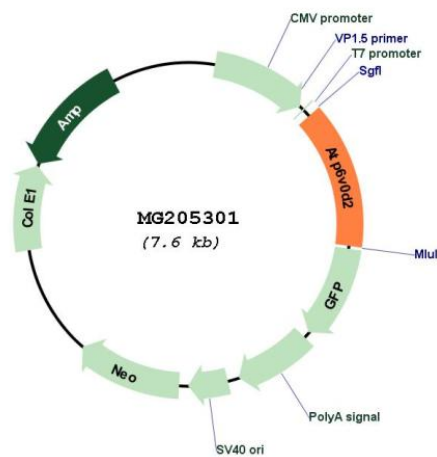
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_175406

ORF Size: 1050 bp

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| 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: | NM_175406.3 , NP_780615.2 |
| RefSeq Size: | 2518 bp |
| RefSeq ORF: | 1053 bp |
| Locus ID: | 242341 |
| UniProt ID: | Q80SY3 |
| Cytogenetics: | 4 A3 |
| Gene Summary: | Subunit of the integral membrane V0 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system (By similarity). May play a role in coupling of proton transport and ATP hydrolysis. Regulator of osteoclast fusion and bone formation.[UniProtKB/Swiss-Prot Function] |