

## Product datasheet for **RG209007**

### ATP6V0D2 (NM\_152565) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP6V0D2 (NM_152565) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP6V0D2
Synonyms:	ATP6D2; VMA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209007 representing NM_152565 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCGAAGGTGCGGAGCTGTACTTCAACGTGGACCATGGCTACCTGGAGGGCCTGGTTCGAGGATGCA  
AGGCCAGCCTCTGACCCAGCAAGACTATATCAACCTGGTCCAGTGTGAGACCCTAGAAGACCTGAAAAAT  
TCATCTCCAGACTACTGATTATGGTAACTTTTGGCTAATCACACAAATCCTCTTACTGTTTCCAAAATT  
GACTGAGATGAGGAAAAGACTATGTGGAGAATTTGAGTATTTCCGGAATCATTCCCTGGAGCCCCTCA  
GCACATTTCTCACCTATATGACGTGCAGTTATATGATAGACAATGTGATTCTGCTGATGAATGGTGCATT  
GCAGAAAAATCTGTGAAAGAAATCTGGGGAAGTGCCACCCCTTGGGCGTTTCACAGAAATGGAAGCT  
GTCAACATTGCAGAGACACCTTCAGATCTCTTAAATGCCATTCTGATCGAAACGCCATTAGCTCCATTCT  
TCCAAGACTGCATGTCTGAAAAATGCTCTAGATGAATGAATTTGAATTGCTACGCAATAAACTATACAA  
GTCTTACCTTGAGGCATTCTATAAATCTGTAAGAATCATGGTGTGTCACAGCAGAAGTTATGTGTCCC  
ATTCTTGAGTTTGGAGCCGACAGACGTGCTTTTATCATCACTCTTAACCTTTGGCACTGAATTGAGCA  
AAGAAGACCGAGAGACCTCTATCCAACCTTCGGCAAACCTATCCTGAGGGGTTGCGGCTGTTGGCTCA  
AGCAGAAGACTTTGACCAGATGAAGAACGTAGCGGATCATTACGGAGTATACAAACCTTTATTTGAAGCT  
GTAGTGGCAGTGGGGAAAGACATTGGAGGACGTGTTTTACGAGCGTGAGGTACAAATGAATGTGCTGG  
CATTCAACAGACAGTTCCACTACGGTGTGTTTTATGCATATGTAAGCTGAAGGAACAGGAAATTAGAAA  
TATTGTGTGGATAGCAGAATGTATTTACAGAGGCATCGAACTAAAATCAACAGTTACATTCCAATTTTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209007 representing NM\_152565  
 Red=Cloning site Green=Tags(s)

MLEGAELYFNVDHGYLEGLVRGCKASLLTQQDYINLVQCETLEDLKIHLQTTDYGNFLANHTNPLTVSKI  
 DTEMRKRLCGEFEYFRNHSLEPLSTFLTYMTCASYMIDNVILLMNGALQKKSVEILGKCHPLGRFTEMEA  
 VNIAETPSDLFNAILIETPLAPFFQDCMSENALDELNIELLRNKLYKSYLEAFYKFCKNHGDVTAEMVCP  
 ILEFEADRRRAFIITLNSFGTELKEDRETLYPTFGKLYPEGLRLLAQAEDFDQMKNVADHYGVYKPLFEA  
 VGGSGGKTLQEDVYFERYEQMNVLAFNRQFHYGVFYAYVKLKEQEIRNIVWIAECISQRHRTKINSYIPIL

TRTRPLE - GFP Tag - V

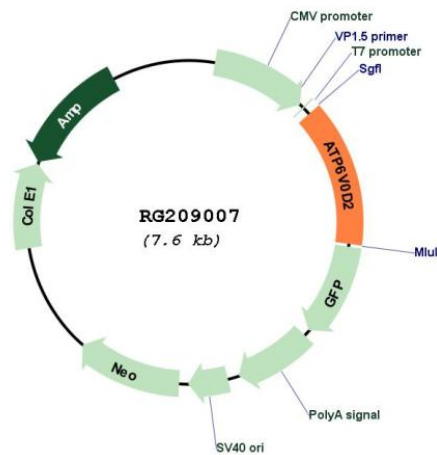
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_152565

**ORF Size:** 1050 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_152565.1</a> , <a href="#">NP_689778.1</a>
<b>RefSeq Size:</b>	2370 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	245972
<b>UniProt ID:</b>	<a href="#">Q8N8Y2</a>
<b>Cytogenetics:</b>	8q21.3
<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>Gene Summary:</b>	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. May play a role in coupling of proton transport and ATP hydrolysis (By similarity). [UniProtKB/Swiss-Prot Function]