

Product datasheet for **RG224170**

ATP6V0E2 (NM_001100592) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP6V0E2 (NM_001100592) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ATP6V0E2
Synonyms: ATP6V0E2L; C7orf32
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224170 representing NM_001100592
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGTGCGCGGCCCGCCGGCTGATCGCTTCGGGTGCTCGACTCCTGTTGCGCATGCTCAGCGCGC
TGCCCGGCTGGGACCCGCGCACCTGCAGCGCCCGCTGCTCGGCCCTGCATCCTGCCTGGGCATCCTGCG
CCCGGCCATGACGGCGCACTCATTCGCCCTCCCGGTATCATCTTACCACGTTCTGGGGCCTCGTCGGC
ATCGCCGGGCCCTGGTTCTGTGCCAAGGGACCCAACCGGGAGTGATCATCACCATGCTGGTCGCCACCG
CCGTCTGCTGTTACCTCTTGTGCCAGCTCTCGGAATGACTGTGGCTCCACTGTCCCTGACAACCCCTTC
GTCCGGACCTCCCCACAACTATGTCTGGTACCAGCTCCCTCCTGCTGGCACCCAGAGACCCGGAC
CCGACGGGCTGCCTGGTTCCTGGAAGTCTTCCAGTCTTCCAGCCAGCCCGGGCCCTGGGGAGCCCTG
GGCACAGCAGCGCCGAGGGGATGTCTGCTCCAATACCCGCACTGCTCTGGAGTTTGCCCTCTTTCCCA
AGGAGATGCTGCTGGGGAGCTGGTATGGGTGGGTCTTTCCCTTTACAGACGGGGCAGATGCCAGGACTC
AGCCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224170 representing NM_001100592
Red=Cloning site Green=Tags(s)

MRVRGPARLIASGARLLLRMLSALPGWGAHLQRPLLGPASCLGILRPAMTAHSFALPVIIFTTFWGLVG
 IAGPWFVPKGPNRGVIIITMLVATAVCCYLLCPALGMTVAPLSLTTPSSGSPSTQLCLVTSSLLLAPRDPD
 PQGLPGSWKSSQSSQPARALGSPGHSSGRGDVLLQYPHCSGVCPLSQGDAAAGELVWVGSFPLQTGQMPGL
 SPS

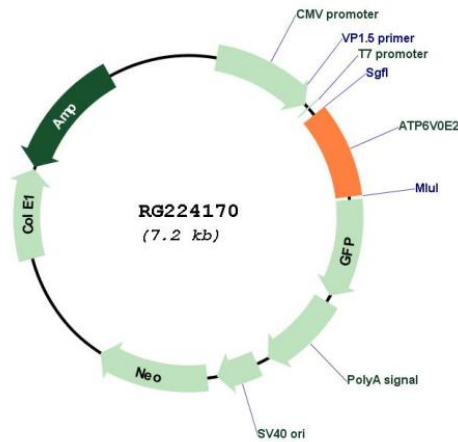
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100592

ORF Size: 639 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:	NM_001100592.2 , NP_001094062.1
RefSeq Size:	2565 bp
RefSeq ORF:	642 bp
Locus ID:	155066
UniProt ID:	Q8NHE4
Cytogenetics:	7q36.1
Protein Pathways:	Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
Gene Summary:	Multisubunit vacuolar-type proton pumps, or H(+)-ATPases, acidify various intracellular compartments, such as vacuoles, clathrin-coated and synaptic vesicles, endosomes, lysosomes, and chromaffin granules. H(+)-ATPases are also found in plasma membranes of specialized cells, where they play roles in urinary acidification, bone resorption, and sperm maturation. Multiple subunits form H(+)-ATPases, with proteins of the V1 class hydrolyzing ATP for energy to transport H+, and proteins of the V0 class forming an integral membrane domain through which H+ is transported. ATP6V0E2 encodes an isoform of the H(+)-ATPase V0 e subunit, an essential proton pump component (Blake-Palmer et al., 2007 [PubMed 17350184]).[supplied by OMIM, Mar 2008]