

# **Product datasheet for RG204991**

### ATP5PO (NM 001697) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** ATP5PO (NM\_001697) Human Tagged ORF Clone

Tag: TurboGFP Symbol: ATP5PO

Synonyms: ATP5O; ATPO; HMC08D05; OSCP

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

**E. coli Selection:** Ampicillin (100 ug/mL)

ORF Nucleotide >RG204991 representing NM\_001697

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GAGATTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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### ATP5PO (NM\_001697) Human Tagged ORF Clone - RG204991

**Protein Sequence:** >RG204991 representing NM\_001697

Red=Cloning site Green=Tags(s)

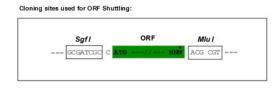
MAAPAVSGLSRQVRCFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILK EPKVAASVLNPYVKRSIKVKSLNDITAKERFSPLTTNLINLLAENGRLSNTQGVVSAFSTMMSVHRGEVP CTVTSASPLEEATLSELKTVLKSFLSQGQVLKLEAKTDPSILGGMIVRIGEKYVDMSVKTKIQKLGRAMR EIV

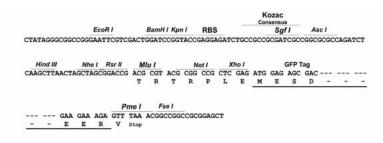
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_001697

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:** 

- 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 001697.1</u>

 RefSeq Size:
 815 bp

 RefSeq ORF:
 642 bp

 Locus ID:
 539

 UniProt ID:
 P48047

 Cytogenetics:
 21q22.11

**Domains:** OSCP

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation,

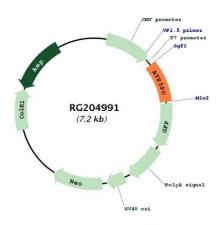
Parkinson's disease

**Gene Summary:** The protein encoded by this gene is a component of the F-type ATPase found in the

mitochondrial matrix. F-type ATPases are composed of a catalytic core and a membrane proton channel. The encoded protein appears to be part of the connector linking these two components and may be involved in transmission of conformational changes or proton

conductance. [provided by RefSeq, Jul 2008]

# **Product images:**



Circular map for RG204991