

Product datasheet for **RG207908**

ATP5PD (NM_006356) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ATP5PD (NM_006356) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ATP5PD
Synonyms: APT5H; ATP5H; ATPQ
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207908 representing NM_006356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGGGCAAACTTGCTCTAAAAACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAACC
 AAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCCTCACCTCCAGGTTGGCTGCTTTACCTGA
 GAATCCACCAGCTATCGACTGGGCTTACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTT
 GAGAAGAAGTTTAAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAATACTGCCAGGTGGATGCCGAAG
 AAAAGAAGATGTGAAATCTTGCTGAGTGGGTGTCTCTCAAAGGCCAGGATTGTAGAATATGAGAA
 AGAGATGGAGAAGATGAAGAACTTAATTCATTTGATCAGATGACCATTGAGGACTTGAATGAAGCTTTC
 CCAGAAACCAATTAGACAAGAAAAAGTATCCCTATTGGCCTCACCAACCAATTGAGAATTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207908 representing NM_006356
 Red=Cloning site Green=Tags(s)

MAGRKLALKTIDWVAFIEIPQNQKAIASSLKSUNETLTSRLAALPENPPAIDWAYYKANVAKAGLVDDF
 EKKNFALKVPVPEDKYTAQVDAEEKEDVKSCEWVSLSKARIVEYEKEMEMKKNLIPFDQMTIEDLNEAF
 PETKLDKPKYPYWPHQPIENL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_006356

ORF Size: 483 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_006356.3](#)

RefSeq Size: 628 bp

RefSeq ORF: 486 bp

Locus ID: 10476

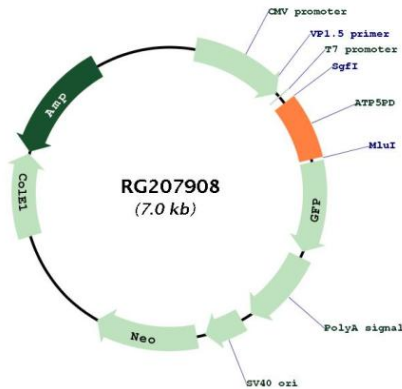
UniProt ID: [O75947](#)

Cytogenetics: 17q25.1

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

Gene Summary: Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RG207908