

Product datasheet for **RG231970**

IMMP2L (NM_001244606) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IMMP2L (NM_001244606) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: IMMP2L
Synonyms: IMMP2L-IT1; IMP2; IMP2-LIKE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231970 representing NM_001244606
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACAGTCACAAGGGTGGGTGAAAAGATACATCAAGGCCTTTTGTAAAGGCTTCTTTGTGGCGGTGC
CTGTGGCAGTGACTTTCTGGATCGGGTCGCCTGTGTGGCAAGAGTAGAAGGAGCATCGATGCAGCCTTC
TTTGAATCCTGGGGGAGCCAGTCATCTGATGTGGTGCTTTTGAACCACTGGAAAGTGAGGAATTTTGA
GTACACCGTGGTACATTGTATCATTGGTGTCTCTAAAAACCCAGAACAGAAGATCATTAAAGAGAGTGA
TTGCTCTTGAAGGAGATATTGTCAGAACCATAGGACACAAAAACCGGTATGTCAAAGTCCCCGTGGTCA
CATCTGGGTTGAAGGTGATCATCATGGACACAGTTTTGACAGTAATTCTTTGGGCCGTTTCCCTAGGA
CTTCTGCATGCCATGCCACACATATCCTGTGGCCCCAGAGCGCTGGCAGAAATTGGAATCTGTTCTTC
CTCCAGAGCGCTTACCAGTACAGAGAGAAGAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231970 representing NM_001244606
Red=Cloning site Green=Tags(s)

MAQSQGWWKRYIKAFCKGFFVAVPVAVTFLDRVACVARVEGASMQPSLNPGGSSQSDVLLNHWKVRNFE
VHRGDIVSLVSPKNPEQKIIKRVIALEGDIVRTIGHKNRYVKVPRGHIWVEGDHGHGHSFDSNSFGPVS LG
LLHAHATHILWPPERWQKLESVLPPERLPVQREEE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001244606.2](#)

RefSeq Size: 1225 bp

RefSeq ORF: 528 bp

Locus ID: 83943

UniProt ID: [Q96T52](#)

Cytogenetics: 7q31.1

Protein Families: Druggable Genome, Protease

Gene Summary: This gene encodes a protein involved in processing the signal peptide sequences used to direct mitochondrial proteins to the mitochondria. The encoded protein resides in the mitochondria and is one of the necessary proteins for the catalytic activity of the mitochondrial inner membrane peptidase (IMP) complex. Two variants that encode the same protein have been described for this gene. [provided by RefSeq, Sep 2011]