

Product datasheet for **MG224746**

Atp8b2 (NM_001081182) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp8b2 (NM_001081182) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp8b2
Synonyms:	Id
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224746 representing NM_001081182 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACTGTGTGCAAAAAAGCGCCCCCAGAAGAAGAGCGGAGGGCGCGGGCTAACGACCGTGAATACA
ATGAGAAATCCAGTATGCGAGTAACTGCATCAAGACCTCCAAGTACAATATTGCACCTCCTGCCTGT
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CCCCAGATCTCGTCCCTGCTCTGGTTCACCACCATTGTGCCTTTGGTTCTCGTCTCACCATCACAGCTG
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AGACCGCAGAGCTGGATGGAGAGACCAACATGAAAGTGCGCCAGGCCATTCCAGTCACCTCAGAGCTGGG
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GCTCAGTCTCCAGATGAGGGCGCTCTGGTCACCGCAGCCAGGAATTTTGGTTTTGTGTTCCGCTCTCGTA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

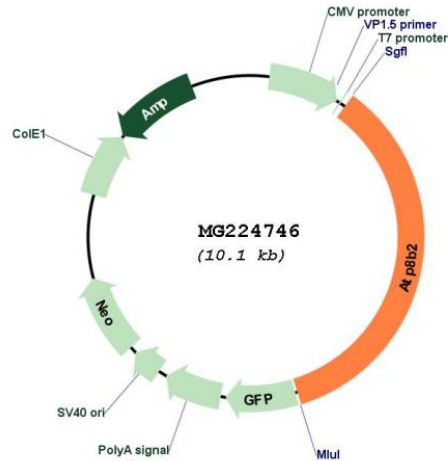
Protein Sequence: >MG224746 representing NM_001081182
 Red=Cloning site Green=Tags(s)

MALCAKKRPPEEERRARANDREYNEKFQYASNCIKTSKYNIIVTFLPVNLFQFQEVANTYFLFLILQLI
 PQISSLWFTTIIVPLVVLVTITAVKDATDDYFRHKSDNQVNNRHSQVLINGVLQQEQWMNVCVGDIIKLE
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 ELEFLETACACKAVICCRVTPLQKAQVVELVKKYKAVTLAIGDGANDVSMIKTAHIGVIGSGQEGIQAV
 LASDYSFSQFKFLQRLLLVHGRWSYLRMCKFLCYFFYKNFAFTMVHFWFGFFCGFSAQTVYDQYFITLYN
 IYVTSPLVAMGVFDQDVPEQRSMEYPKLYEPQGLNLLFNKREFFICIAQGIYTSVLMFFIPYGVFAEAT
 RDDGTQLADYQSFVAVTATSLVIVSVQIGLDTGYWTAINHFFIWGSLAVYFAILFAMHSNGLDFMFPNQ
 FRFVGNQNTLAQPTVWLTIALTTAVCIMPVAVRFLRLSLKPDLSDTVRYTQLVRKKQKAQHRCMRRVG
 RTGSRRSYGAFSHQEGFGELIMSGKNMRLSSLALSSFSTRSSSWIESLRKKSDSANSPSGGAEKPLKG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
 Cloning Scheme:



Plasmid Map:


ACCN: NM_001081182

ORF Size: 3570 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_001081182.3](#)

RefSeq Size: 5705 bp

RefSeq ORF: 3573 bp

Locus ID: 54667

Cytogenetics: 3 F1

Gene Summary:

Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids. Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules (By similarity).[UniProtKB/Swiss-Prot Function]