

Product datasheet for **MG220472**

Ap3b2 (NM_021492) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ap3b2 (NM_021492) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ap3b2
Synonyms: AI549966; AU042881; beta-NAP; beta3B; Naptb; [b]-NAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220472 representing NM_021492
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGCCGCTCCGGCTACAGCGAAGACAAGGGCGGCTCAGCCGGTCCCAGGAGCCAGAATATGGCC
ACGACCCGGGAGCGGGTATCTTCTCCTCGGACTACAAGCGGCATGATGACCTGAAAGAGATGTTGGA
CACCAACAAGGACTCCCTCAAGCTGGAGGCCATGAAGAGGATTGTGGCAATGATCGCCCGGGAAAGAAAT
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TGGCCTAAAGGATCCCAACCAGCTGATCCGTGCCAGTGCCTCCGGTCTCTCTAGCATCCGTGTGCC
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 GCCCGGGCAGCTGGAGCCGCCAGCTGACCGTCAACAGTGAAGAAGTGGTATTGGCACCATGCTGGTGA
 AGGATGTGATTACAGGCTCTGACCCAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220472 representing NM_021492
 Red=Cloning site Green=Tags(s)

MSAAPAYSEDKGGGAGPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKRIVAMIARGKN
 ASDLFPVAVVKNVACKNIEVKKLVVYVLRVYAEQQDLALLSISTFQRGLKDPNQLIRASALRVLSSIRVP
 IIVPIMMLAIKEAASDMSPYVRKTAHAIPKLYSLDSDQKDLIEVIEKLLADKTTLVAGSVVMAFEEVC
 PERIDL IHNKRYKLCNLLIDVEEWGQVVIISMLTRYARTQFLSPTQNESLLEENPEKAFYGSEDEAKGP
 GSEEAATAALPARKPYVMDPDHRLLLRNTKPLLQSRSAAVVMAVAQLYFHLAPKAEVGVIAKALVRLRS
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 SESEVTSESEEEQVEPASWRKTPPGSKSAPVAKEISLLDLEDFTPPSVQPVSPPMVSTSLAADLEGLT
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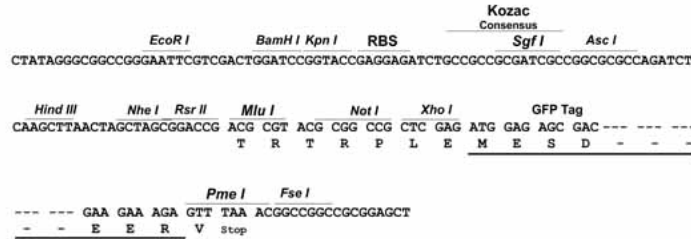
SGPTRRRLE - GFP Tag - V

Restriction Sites:

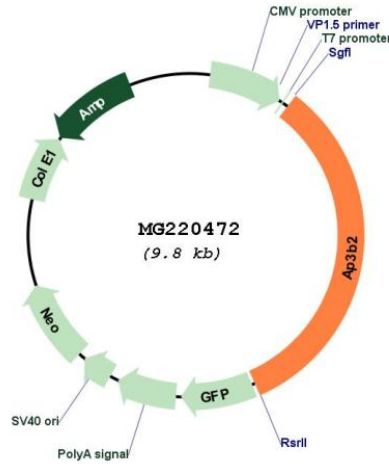
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021492

ORF Size: 3246 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_021492.3 , NP_067467.2
RefSeq Size:	3816 bp
RefSeq ORF:	3249 bp
Locus ID:	11775
UniProt ID:	Q9JME5
Cytogenetics:	7 45.71 cM
Gene Summary:	Subunit of non-clathrin- and clathrin-associated adaptor protein complex 3 (AP-3) that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. AP-3 appears to be involved in the sorting of a subset of transmembrane proteins targeted to lysosomes and lysosome-related organelles. In concert with the BLOC-1 complex, AP-3 is required to target cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. [UniProtKB/Swiss-Prot Function]