

Product datasheet for MG215820

Gabarapl2 (NM_026693) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gabarapl2 (NM_026693) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Gabarapl2

Synonyms: 0610012F20Rik; 2900019O08Rik; Al173605; GATE-16; Gef2

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG215820 representing NM_026693

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

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGAAGTGGATGTTTAAGGAGGACCACTCTCTGGAACACAGATGCGTGGAATCCGCGAAGATCAGAGCGA
AGTACCCCGACCGAGTTCCGGTGATCGTGGAAAAAGTCTCGGGCTCTCAGATTGTTGACATAGACAAGAG
GAAGTACTTGGTCCCCTCGGACATCACTGTGGCTCAGTTCATGTGGATCATCAGGAAAAAGGATCCAGCTT
CCCTCCGAGAAGGCCATCTTCCTGTTTGTGGACAAGACAGTCCCACAGTCCAGCCTAACTATGGGACAGC
TTTACGAGAAAGGAAAAAGATGAAGATGGATTCTTGTATGTGGCCTACAGCGGAGAGAACACTTTTGGCTT

C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215820 representing NM_026693

Red=Cloning site Green=Tags(s)

MKWMFKEDHSLEHRCVESAKIRAKYPDRVPVIVEKVSGSQIVDIDKRKYLVPSDITVAQFMWIIRKRIQL

PSEKAIFLFVDKTVPQSSLTMGQLYEKEKDEDGFLYVAYSGENTFGF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



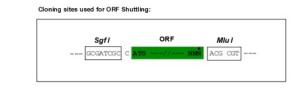
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

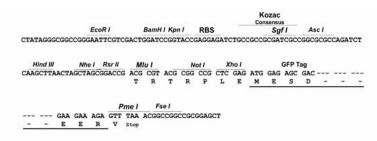
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

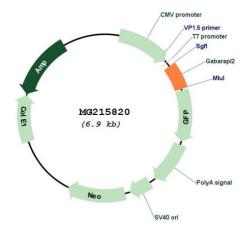


Cloning Scheme:





Plasmid Map:



ACCN: NM_026693

ORF Size: 351 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

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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 026693.5</u>, <u>NP 080969.2</u>

 RefSeq Size:
 996 bp

 RefSeq ORF:
 354 bp

 Locus ID:
 93739

 UniProt ID:
 P60521

 Cytogenetics:
 8 E1

Gene Summary: Ubiquitin-like modifier involved in intra-Golgi traffic. Modulates intra-Golgi transport through

coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of

NSF which in turn stimulates the association with GOSR1 (By similarity). Involved in

autophagy. Plays a role in mitophagy which contributes to regulate mitochondrial quantity

and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Whereas LC3s are involved in

elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a

later stage in autophagosome maturation.[UniProtKB/Swiss-Prot Function]