

Product datasheet for **MC202843**

Gabarapl2 (NM_026693) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gabarapl2 (NM_026693) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gabarapl2
Synonyms: 0610012F20Rik; 2900019O08Rik; A1173605; GATE-16; Gef2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC026798 sequence for NM_026693
CCCGCCTCCGTTGTTGTTGGTCGCTTCGCCGAAGTCCGCGGCTCGAAGAGCCGGCTCCGTCGCTTCCC
GTCGCCATGAAGTGGATGTTTAAGGAGGACCCTCTCTGGAACACAGATGCGTGGAAATCCGCGAAGATCA
GAGCGAAGTACCCCGACCGAGTTCGGTGATCGTGAAAAAGTCTCGGGCTCTCAGATTGTTGACATAGA
CAAGAGGAAGTACTTGGTCCCCTCGGACATCACTGTGGCTCAGTTCATGTGGATCATCAGAAAAAGGATC
CAGCTTCCCTCCGAGAAGGCCATCTTCTGTTTGGACAAGACAGTCCCACAGTCCAGCCTAACTATGG
GACAGCTTACGAGAAGGAAAAAGATGAAGATGGATTCTTGATGTGGCCTACAGCGGAGAGAACACTTT
TGGCTTCTGAGGCCCTTGTGGCTAGGTGCGCCCTTCTGCTTGTGTCTTGTAAATAACTGGCTGTT
CTCAGTACTCTGCCAGGCCTCCACAGACCTACTAGTGCATTTGTAAGTGGATTTATTTCTTAATAT
ATTGGAAGTTTTGTTTCTTAGATTAGTAAATTATCATAACAGATTTTATTTTCAGTTTTCTTTTTGTG
CACTGTCTCATGGCTATTTGCTCCAGGAACTGTCTCTGGGAATCATATTTAATGAAGATATTTCCG
TAATGAAGGGAGGTAGGTGTGGTAAAGGAAAAGGAGGGGCTGATGCATAGTTCTGGATTATGTTGA
AAGTGTTAGATGGCTAAGTATTAAGCACCAGATTAATCCTTAGCAATCAGAACACTTGCTTCACTA
GATTTTGCCAACGCAAAATCATGTTGGACTGAGCTAATCTATTCTTTCTGAGACTATTAAGGTAAT
AATTAACAATAAAGCCTCCTTATAAAGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_026693

Insert Size: 354 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	BC026798 , AAH26798
RefSeq Size:	976 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]