

Product datasheet for **MG200511**

Gabarap (NM_019749) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gabarap (NM_019749) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Gabarap
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG200511 representing NM_019749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTTCGTGTACAAAGAGGAGCATCCGTTTCGAGAAACGCCGCTCTGAGGGCGAGAAAATCCGAAAGA
 AATACCCAGACCGGGTCCCGGTGATAGTGGAAAAGCCCCAAAGCTCGGATAGGAGACCTGGACAAAA
 GAAATACCTGGTGCCTTCTGATCTTACAGTTGGTCAATTCTACTTCTTGATCCGGAAGCGAATTCATCTC
 CGTGCTGAAGATGCCTTGTCTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACGATGGGTCAGC
 TGTACCAGGAACCATGAAGAAGACTTCTTTCTATACATTGCCTACAGTGATGAAAGCGTCTATGGTCT
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200511 representing NM_019749
 Red=Cloning site Green=Tags(s)
 MKFVYKEEHPFEKRRSEGEKIRKKYPDRVPVIVEKAPKARIGDLDKKKYLVPSDLTVGQFYFLIRKRIHL
 RAEDALFFFVNNVIPPTSATMGQLYQEHHEEDFFLYIAYSDESYYGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

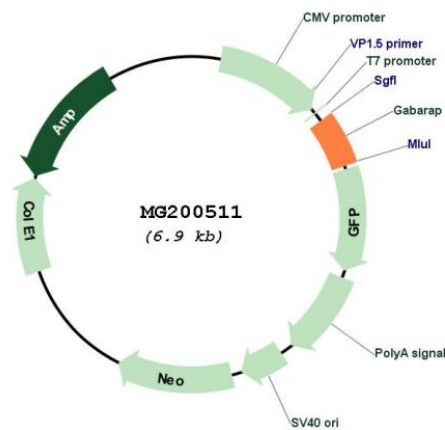


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_019749

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](#)

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:	<u>NM_019749.3</u> , <u>NP_062723.1</u>
RefSeq Size:	1152 bp
RefSeq ORF:	354 bp
Locus ID:	56486
UniProt ID:	<u>Q9DCD6</u>
Cytogenetics:	11 42.95 cM
Gene Summary:	Ubiquitin-like modifier that plays a role in intracellular transport of GABA(A) receptors and its interaction with the cytoskeleton. Involved in apoptosis. Involved in autophagy. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (By similarity).[UniProtKB/Swiss-Prot Function]