

Product datasheet for **MG205615**

Sh3glb1 (BC024362) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Sh3glb1 (BC024362) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Sh3glb1 |
| Synonyms: | Bif-1, mKIAA0491 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG205615 representing BC024362 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAACATCATGGATTTCAACGTGAAGAAGCTGGCGGCCGACGCGGGCACCTTCTCAGCCGGGCCGTGC
AGTTCACAGAAGAAAAGCTTGGCCAGGCAGAGAAGACAGAAGCTGGACGCTCACCTGGAAAACCTCCTTAG
CAAAGCTGAATGTACAAAATATGGACAGAAAAGATAATGAAGCAGACCGAAGTGTGTTGCAGCCAAAT
CCAAATGCCAGGATAGAAGAATTTGTTTATGAGAACTGGATAGAAAAGCACCAAGTCGTATAAACAACC
CGGAACTTTTGGACAATATATGATTGATGCAGGAAGTGGTTTGGCCAGGGACAGCTTATGGAAATGC
CCTTATTAATGTGGAGAAACACAGAAGCGAATTGGAACAGCTGACCGAGAGCTGATTCAAACATCAGCC
TTAAATTTCTCACTCCTTTAAGAACTTTATAGAAGGGATTACAAAACAATCGCAAAAAGAAAGGAAAC
TATTACAGAATAAGAGACTGGATTTGGATGCTGCAAAAACAAGACTAAAAAGGCAAAAGCTGCAGAAAAC
TAAAAGTTCATCTGAACAGGAATTGAGAATAACTCAAAGTGAATTTGATCGTCAGGCAGAGATTACCCGA
CTCCTGCTTGAGGGAATCAGCAGTACACACGCCCATCATCTCCGCTGTCTGAATGACTTTGTAGAAGCCC
AGATGACTTACTATGCACAGTGTACCAGTATATGCTAGACCTACAGAAGCAACTGGGAAGTTTTCCATC
CAATTATCTTTCTAACAACAATCAGACCTCTGGGACACCAGTGCCATATGCTTTGTCAAATGCAATTTGGT
CCTTCTGCCAGGCTTCAACGGGTAGCCTTGTAAACACCTGTCTTAACTCAATGACCTTAAAGAAT
CCAGCAACAACAGGAAGGCTAGGGTCTCTATGATTATGATGCTGCAAAATAGCACTGAAGTGTCACTCCT
GGCCGATGAGGTAACTACTGTGTTCAAGTGTGTTGGAATGGACTCCGACTGGCTAATGGGAGAGAGAGGA
AATCAAAGGCAAGGTGCCAATTACCTACTTAGAACTTCTCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205615 representing BC024362
 Red=Cloning site Green=Tags(s)

MNIMDFNVKLLAADAGTFLSRAVQFTEEKLGQAEKTELEDAHLENLLSKAECTKIWTEKIMKQTEVLLQPN
 PNARIEEFVYEKLDKAPSRINPELLGQYIMIDAGTEFGPGTAYGNALIKCGETQKRIGTADRELIQTSALN
 FLTPLRNFIIEGDKYTKIAKERKLLQNKRLDLDAKTRLLKAKAAETKSSSEQELRITQSEFDRQAEITR
 LLLLEGISSTHAHHLRCLNDFVEAQMTYYAQCYQYMLDLQKQLGSFSPNYLSNNTSGTPVPYALSNAIG
 PSAQASTGSLVITCPNLNDLKESSNNRKARVLYDYDAANSTELSLLADEVITVFSVVGMDSDWLMGERG
 NQKGVPIITYLELLN

TRTRPLE - GFP Tag - V

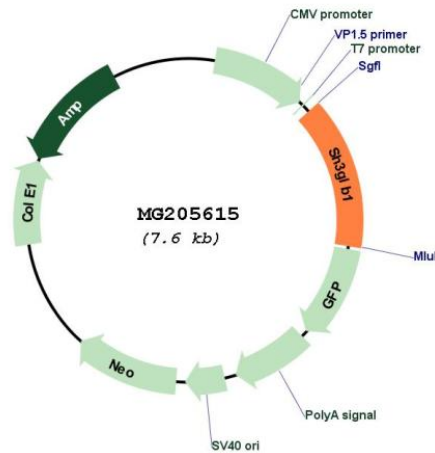
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC024362

| | |
|-------------------------------|--|
| ORF Size: | 1097 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | BC024362 , AAH24362 |
| RefSeq Size: | 1579 bp |
| RefSeq ORF: | 1097 bp |
| Locus ID: | 54673 |
| Cytogenetics: | 3 H2 |

Gene Summary:

May be required for normal outer mitochondrial membrane dynamics. Required for coatamer-mediated retrograde transport in certain cells (PubMed:17086176). May recruit other proteins to membranes with high curvature. May promote membrane fusion (By similarity). Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation (PubMed:16227588). Isoform 1 acts proapoptotic in fibroblasts (PubMed:24523556). Involved in caspase-independent apoptosis during nutrition starvation and involved in the regulation of autophagy. Activates lipid kinase activity of PI3K3C3 during autophagy probably by associating with the PI3K complex II (PI3KC3-C2). Associated with PI3KC3-C2 during autophagy may regulate the trafficking of ATG9A from the Golgi complex to the peripheral cytoplasm for the formation of autophagosomes by inducing Golgi membrane tubulation and fragmentation. Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3KC3-C2 (By similarity). Isoform 2 acts antiapoptotic in neuronal cells; involved in maintenance of mitochondrial morphology and promotes neuronal viability (PubMed:24523556).[UniProtKB/Swiss-Prot Function]