

Product datasheet for **MR229454**

Sh3glb1 (NM_001282042) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sh3glb1 (NM_001282042) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sh3glb1
Synonyms: AA409932; AI314629; AU015566; Bif-1; mKIAA0491
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229454 representing NM_001282042
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACATCATGGATTTCAACGTGAAGAAGCTGGCGGCCGACGCGGCACCTTCCTCAGCCGGCCGTGC
AGTTCACAGAAGAAAAGCTTGGCCAGGCAGAGAAGACAGAAGCTGGACGCTCACCTGGAAAACCTCCTTAG
CAAAGCTGAATGTACAAAATATGGACAGAAAAGATAATGAAGCAGACCGAAGTGTGTGCAGCCAAAT
CCAAATGCCAGGATAGAAGAATTTGTTTATGAGAACTGGATAGAAAAGCACCAAGTCGTATAAACCAACC
CGGAACTTTTGGGACAATATATGATTGATGCAGGAACTGAGTTTGGCCCAGGGACAGCTTATGGAATGC
CCTTATTAATGTGGAGAAACACAGAAGCGAATTGGAACAGCTGACCGAGAGCTGATTCAAACATCAGCC
TTAAATTTCTCACTCCTTTAAGAAACTTTATAGAAGGGGATTACAAAACAATCGCAAAAGAAAGGAAAC
TATTACAGAATAAGAGACTGGATTTGGATGCTGCAAAAACAAGACTAAAAAGGCAAAAGCTGCAGAAAC
TAAAAGTTCATCTGAACAGGAATTGAGAATAACTCAAAGTGAATTTGATCGTCAGGCAGAGATTACCCGA
CTCCTGCTTGAGGAATCAGCAGTACACACGCCCATCATCTCCGCTGTCTGAATGACTTTGTAGAAGCCC
AGATGACTTACTATGCACAGTGTACCAGTATATGCTAGACCTACAGAAGCAACTGGGAAGTTTTCCATC
CAATTATCTTTCTAACACAATCAGACCTCTGGGACACCAAGTGCATATGCTTTGTCAAATGCAATTGGT
CCTTCTGCCAGGCTTCAACGGGTAGCCTTGAATCACCTGTCCTTCTAACCTCAATGACCTTAAAGAAT
CCAGCAACAACAGGAAGGCTAGGGTCTCTATGATTATGATGCTGCAAAATAGCACTGAACTGCACTCCT
GGCCGATGAGGTAATCACTGTGTTCAAGTGTGTTGGAATGGACTCCGACTGGCTAATGGGAGAGAGAGGA
AATCAAAGGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1065 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_001282042.1 , NP_001268971.1
RefSeq Size:	2809 bp
RefSeq ORF:	1068 bp
Locus ID:	54673
UniProt ID:	Q9JK48
Cytogenetics:	3 H2
MW:	40.1 kDa
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 (PI3K3C3-C2). Associated with PI3K3C3-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 PI3K3C3-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]