

## Product datasheet for **RN204100**

### Sh3glb1 (NM\_001011929) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sh3glb1 (NM_001011929) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sh3glb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN204100 representing NM_001011929 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATCATGGATTTCAACGTGAAGAAGCTGGCGGCCGACGCGGGCACTTTCCTCAGCCGGGCCGTGC  
AGTTCACAGAGGAAAAGCTTGGCCAAGCAGAGAAGACAGAAGCTGGATGCTCACCTGGAAAATCTCCTCAG  
CAAGGCGGAGTGACCAAAGTGTGGACAGAGAAGATAATGAAGCAGACTGAGGTGCTGTTGCAGCCAAAT  
CCAAATGCCAGGATAGAAGAATTTGTTTATGAGAACTGGACAGAAAAGCGCCAAGTCGTATAAACAACC  
CAGAAGCTTTGGACAGTATATGATTGATGCAGGCACTGAGTTTGGCCAGGGACAGCTTATGGTAATGC  
CCTTATTAATGTGGAGAAACACAGAAGCGAATTGGAACAGCTGACAGAGAGCTGATTCAAACATCAGCC  
TTAAATTTCTCACTCCTTTAAGAACTTTATAGAAGGGATTACAAGACAATCGCAAAAGAAAGGAAGC  
TATTACAGAATAAGAGACTGGATTTGGATGCTGCAAAAACAAGACTAAAAAGGCAAAAGCTGCAGAAAC  
TAAAAGTTCATCTGAACAGGAATTAAGAATAACTCAAAGTGAATTTGATCGTCAGGCAGAGATTACCCGT  
CTTCTGCTGGAAGGAATCAGCAGTACACACGCCCATCTCCGCTGTCTGAATGACTTTGTAGAAGCCC  
AGATGACTTACTATGCACAATGTTACCAGTACATGTTAGACCTACAAAAACAAGTGGGAAGTTTTCCATC  
CAATTATGTTTCTAACAACAATCAGACTTCTGGACACCTGTGCCGTATACTTTGTCAAATACCATTGGT  
CCTTCTGCTGTGGCTTCAACAGGTAGCCTGGTAATCACCTGTCTCCTAACCTCAGTGACCTTAAAGACT  
CCAGCAGCACCAGGAAGGCCAGGGTGTGTACGATTATGACGCTGCCAACAGTACGGAGCTGTCACTCCT  
GGCAGACGAGGTAATCACTGTGTTCAAGTGTGTTGGAATGGACTCCGACTGGCTAATGGGGAGAGAGGA  
AATCAGAAGGGCAAGGTGCCAATTACCTACTTAGAGCTTCTCAAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1276\\_c09.zip](https://cdn.origene.com/chromatograms/ja1276_c09.zip)

Restriction Sites: Sgfl-Mlul



[View online »](#)

<b>ACCN:</b>	NM_001011929
<b>Insert Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001011929.1</a></u> , <u><a href="#">NP_001011929.1</a></u>
<b>RefSeq Size:</b>	1795 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	292156
<b>UniProt ID:</b>	<u><a href="#">Q6AYE2</a></u>
<b>Cytogenetics:</b>	2q44
<b>Gene Summary:</b>	May be required for normal outer mitochondrial membrane dynamics. Required for coatomer-mediated retrograde transport in certain cells. May recruit other proteins to membranes with high curvature. May promote membrane fusion. Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation. 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).[UniProtKB/Swiss-Prot Function]