

Product datasheet for RR204100L4

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OriGene Technologies, Inc.

Sh3glb1 (NM_001011929) Rat Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Sh3glb1 (NM_001011929) Rat Tagged Lenti ORF Clone

Tag: mGFP Symbol: Sh3glb1

Mammalian Cell Puromycin

Selection:

Vector:

pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clo

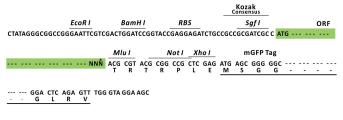
Sequence:

The ORF insert of this clone is exactly the same as(RR204100).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





* The last codon before the Stop codon of the ORF.

ACCN: NM_001011929

ORF Size: 1095 bp



Sh3glb1 (NM_001011929) Rat Tagged Lenti ORF Clone - RR204100L4

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: 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 001011929.1</u>, <u>NP 001011929.1</u>

 RefSeq Size:
 1795 bp

 RefSeq ORF:
 1098 bp

 Locus ID:
 292156

 UniProt ID:
 Q6AYE2

Cytogenetics: 2q44

Gene Summary: 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 PIK3C3 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).[UniProtKB/Swiss-Prot Function]