

Product datasheet for **RR204100**

Sh3glb1 (NM_001011929) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sh3glb1 (NM_001011929) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sh3glb1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204100 representing NM_001011929
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATCATGGATTTCAACGTGAAGAAGCTGGCGGCCGACGCGGGCACTTTCCTCAGCCGGGCCGTGC
AGTTCACAGAGGAAAAGCTTGGCCAAGCAGAGAAGACAGAAGCTGGATGCTCACCTGGAAAATCTCCTCAG
CAAGGCGGAGTGCACAAAGTGTGGACAGAGAAGATAATGAAGCAGACTGAGGTGCTGTTGCAGCCAAAT
CCAAATGCCAGGATAGAAGAATTTGTTTATGAGAACTGGACAGAAAAGCGCCAAGTCGTATAAACAAAC
CAGAACTTTGGGACAGTATATGATTGATGCAGGCACTGAGTTTGGCCCAGGGACAGCTTATGGTAATGC
CCTTATTAATGTGGAGAAACACAGAAGCGAATTGGAACAGCTGACAGAGAGCTGATTCAAACATCAGCC
TTAAATTTCTCACTCCTTTAAGAACTTTATAGAAGGGGATTACAAGACAATCGAAAAGAAAGGAAGC
TATTACAGAATAAGAGACTGGATTTGGATGCTGCAAAAACAAGACTAAAAAGGCAAAAGCTGCAGAAAC
TAAAAGTTCATCTGAACAGGAATTAAGAATAACTCAAAGTGAATTTGATCGTCAGGCAGAGATTACCCGT
CTTCTGCTGGAAGGAATCAGCAGTACACACGCCCATCATCTCCGCTGTCTGAATGACTTTGTAGAAGCCC
AGATGACTTACTATGCACAATGTTACCAGTACATGTTAGACCTACAAAAACAAGTGGGAAGTTTTCCATC
CAATTATGTTTCTAACACAATCAGACTTCTGGGACACCTGTGCCGTATACTTTGTCAAATACCATTGGT
CCTTCTGCTGTGGCTTCAACAGGTAGCCTGGTAATCACCTGTCCTCCTAACCTCAGTGACCTTAAAGACT
CCAGCAGCACCAGGAAGGCCAGGGTGTGTACGATTATGACGCTGCCAACAGTACGGAGCTGTCACTCCT
GGCAGACGAGGTAATCACTGTGTTCAAGTGTGTTGGAATGGACTCCGACTGGCTAATGGGGGAGAGAGGA
AATCAGAAGGGCAAGGTGCCAATTACCTACTTAGAGCTTCTCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204100 representing NM_001011929
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MNIMDFNVKLAADAGTFLSRAVQFTEEKLGQAEKTELDAHLENLLSKAECTKVWTEKIMKQTEVLLQPN
 PNARIEEFVYEKLDKAPSRINNPELLGQYIMIDAGTEFGPGTAYGNALIKCGETQKRIGTADRELIQTSALN
 FLTPLRNFIEGDYKTIAKERKLLQNKRLDLDAKTRLLKAKAAETKSSSEQELRITQSEFDRQAEITR
 LLEGISSTHAHHLRCLNDFVEAQMTYYAQCYQYMLDLQKQLGSFSPSNYVSNNNQTSVTPVPTLSNTIG
 PSAVASTGSLVITCPPNLSDLKDSSTRKARVLYDYDAANSTELSLLADEVITVFSVVGMDSDWLMGERG
 NQKGKVPITYLELLN

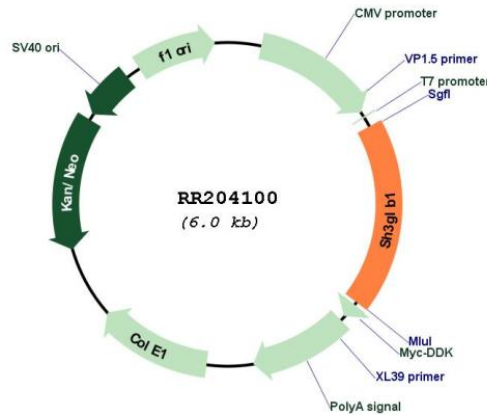
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011929

ORF Size:	1095 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_001011929.1 , NP_001011929.1
RefSeq Size:	1795 bp
RefSeq ORF:	1098 bp
Locus ID:	292156
UniProt ID:	Q6AYE2
Cytogenetics:	2q44
MW:	40.8 kDa
Gene Summary:	May be required for normal outer mitochondrial membrane dynamics. Required for coatamer-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 PI3K3C 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]