

Product datasheet for **MG224941**

Bloc1s3 (NM_177692) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bloc1s3 (NM_177692) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bloc1s3
Synonyms: BC043666; Blos3; E230011O18; rp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224941 representing NM_177692
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCATCCCAGGGTCGGCGGAGAAGGCCGGGACAGTGGTACCTGGGAAGCTGCGGAGACCGACT
 CGGAGCTGTCTGCATCCTCGTCCGAGGAGGAATAACCTGGGTCCCTCGGGCCCTACGCGCGGCCGTCC
 CACGGGGTGCCTGTGGCCGGGAGGCGCGGAGACCGACTCGGAGCCTGAGCCCAGCCACGGTTGTG
 CCGGTCGACCTGCCCGCTCGTGGTGCAGCGCATCCGGCGGAGACTTGGGACAGGAGACCCCTG
 CCATGGCGCTGCGCGCTCGCTGCTGCAGCTCCGGTTGGCTGAGAGCCAGACGCGCTGGACCACGACGT
 AGCGGCTGCGGTGAGCGCGTGTACCGCGTGCGGTTCGCGATGTGGCCGCCCTGGCGGGAGGCTGGCG
 GCTGCTCAGGCCACCGGCTGGCAGCCGCCACAGCGTGCCTGGCGCGCGGGACCTCTGCGCGCTCG
 CCGAGCGCTGGATATCGTGGCTGGCTGTGCTTGTGCCGACATACGAGGGTCCCTGGTATGGAGCC
 CGAGCAGGACCCGGACCTAGAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224941 representing NM_177692
 Red=Cloning site Green=Tags(s)

MESSQRRRRPPTVVPGEAAETDSELSASSSEEELYLGPSGPTGRPTGLRVAGEAAETDSEPEPEPTVV
 PVDLPPLVVQRDPAETWGTETPAMAPARSLQLRLAESQTRLHDVAAVSGVYRRAGRDVAAALAGRLA
 AAQATGLAAAHSVRLARGDLCALAERLDIVAGCRLLPDIRGVPMEPEQDPGPRA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_177692

ORF Size: 585 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:

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_177692.4](#)

RefSeq Size: 1850 bp

RefSeq ORF: 588 bp

Locus ID: 232946

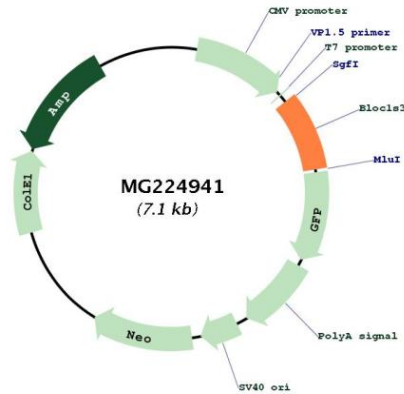
UniProt ID: [Q5U5M8](#)

Cytogenetics: 7 9.92 cM

Gene Summary:

Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension. Plays a role in intracellular vesicle trafficking.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224941