

Product datasheet for **MG224514**

Bloc1s6 (NM_019788) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bloc1s6 (NM_019788) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bloc1s6
Synonyms: BLOC-1; pa; Pldn; Stx13bp1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224514 representing NM_019788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGTTCCTGAGCCACCGCTCCAGACGGGTCTTACGGGGCCTCCGACAGCCTGGAGGCCGGCG
 AGCCACGCCGGGCTTAAGCGACACGTCTCCAGATGAAGGACTGATAGAGGACTTCCTGTGGACGATAG
 AGCTGTAGACACTTGGTGGGAGCCTGCTGTCCCACTACTTACCAGATCTGCAGAGGTCCAAGCGAGCA
 CTCCAGGAACACACAGAACCAAGTTGTGTTACTAGATACACTGGAACAAGAGATTTCAAATTTAAAG
 AATGCCACTCCATGTTGGACATCAATGCTTTGTTACAGAGGCGAAGCACTATCACGCCAAGCTGGTGAC
 TATAAGGAAGGAGATGCTGCTGCCATGAGAAAACGTCCAAGTTGAAAAAAGAGCACTGAAGCTGCAG
 CAGAAGCGGCAGAGAGAAGACTGGAGAGGGAGCAGCAACCGGAAAAGGAATTTGAAAGAGAAAAGCAGC
 TGACAGCCAAGCCAGCCAAGAGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224514 representing NM_019788
 Red=Cloning site Green=Tags(s)

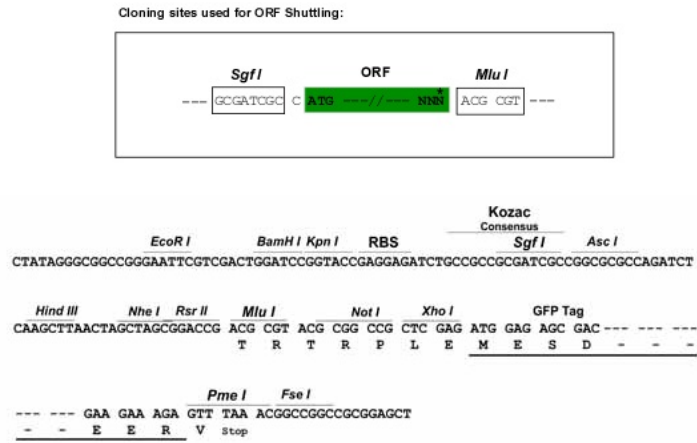
MSVPEPPPPDGVLTPSPDSLEAGEPTPGLSDTSPDEGLIEDFPVDDRAVEHLVGGLLSHYLPDLQRSKRA
 LQELTQNQVVLDTLEQEISKFKCHSMLDINALFTEAKHYHAKLVTIRKEMLLLHEKTSKLLKRALKLQ
 QKRQREELEREQREKEFEREKQLTAKPAKRT

TRTRPLE - GFP Tag - V

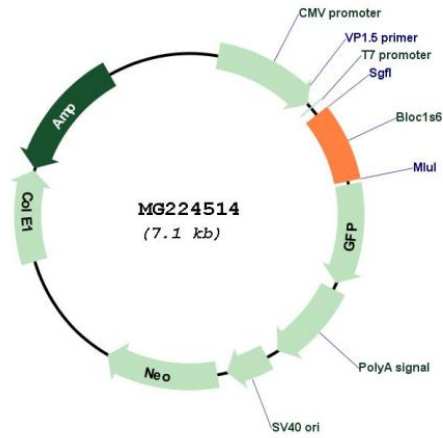
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_019788

ORF Size: 516 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_019788.3](#), [NP_062762.1](#)

RefSeq Size: 3494 bp

RefSeq ORF: 519 bp

Locus ID: 18457

UniProt ID: [Q9R0C0](#)

Cytogenetics: 2 60.66 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. May play a role in intracellular vesicle trafficking, particularly in the vesicle-docking and fusion process.[UniProtKB/Swiss-Prot Function]