

Product datasheet for **MG202377**

BlocIs4 (NM_133724) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: BlocIs4
Synonyms: 261010IN07Rik; Bloss4; Cno
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202377 representing NM_133724
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGAAGGACCCGCGTCGGAACCCTGTCTCGAGAGGTCTCTACCGAGGAGCCGAGCCGTTGGGCG
CCGCGTGGAGCGGGACAGCGGCCAGTCTCGCAGAGCCACAGCAGCGCGTCCGGGCGTGGGACGATGA
CGGCCCGAGGACGCGCGGGCCGCGACCTGCCGCTGCTGCCCGCGCCGCTCGGGCTACGCCTCCAGC
CTGCTGCCAGCGGGACCGAGGCCAGAGGTGGAGGCGCTGGACGCCAGCCTGGAGGAGCTGCTGGCCA
AGGTGGACGAGTTCTGGGCATGCTGGACATGATCCGCGGGGACTCGTCGCATGTGGTGGGCGAGGGCGT
GCCCGGATCCACGCTAAGGCGGCCGAGATGAGGCGCATCTACGGCCGGATCGACAAGCTGGAGGCCTTC
GTGCGGATGATCGGGAGCAGCGTGGCCAGGATGGAGGAGCAGGTCGCCAAGGCCGAAGCCGAGCTGGGGA
CCTTCCCGGGCCTTCCGAGGCTGCTGCATACCATCAGCGTCCCGCTCTTTCAGGTCGGCGCCAG
CGGGCCCAGCGCGGCGTACGAGCCGCCAGTCTGTTTCGGACCGAGGACCACTTCCCTGGCTGCGGT
GACAGACCGCAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202377 representing NM_133724
Red=Cloning site Green=Tags(s)

MEEGPAVGTL SREVSTEEAEP LGAWSGDSGHVSQSHSSASGPWDDDPEDAPGRDLPLLRRAASGYASS
LLPSAGPRPEVEALDASLEELLAKVDFVGM LDMIRGDSHVVEGVPRIHAKAAEMRRIYGRIDKLEAF
VRMIGSSVARMEEQVAKAEALGTFPRAFRRL LHTISVPALFRSAPSGPQRAAYEPPVLFRTEDHFPGCC
DRPQL

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133724

ORF Size: 645 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.

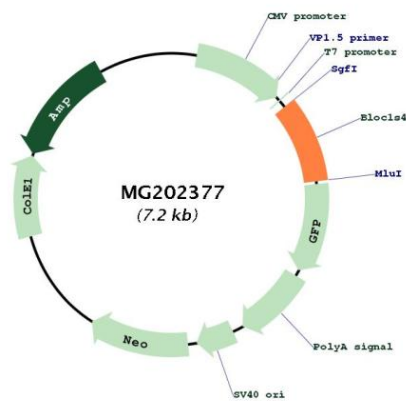
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_133724.3](#), [NP_598485.1](#)

RefSeq Size: 1306 bp
RefSeq ORF: 648 bp
Locus ID: 117197
UniProt ID: [Q8VED2](#)
Cytogenetics: 5 B3

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 MG202377