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Product datasheet for RN206133

Bloc1s1 (NM_001105941) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bloc1s1 (NM_001105941) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Bloc1s1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN206133 representing NM_001105941 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGTCCCGCCTGCTCAAAGAACACCAGGCAAAGCAGAACGAACGGAAGGAGCTGCAGGAGAAGAGGA GGCGAGAGGCTATCACTGCAGCCACCTGCCTGACCGAAGCGTTGGTGGATCACCTCAACGTGGGTGTGGC CCAGGCCTACATGAACCAGAGAAAGCTGGACCATGAGGTGAAGACCCTGCAGGTCCAGGCTGCCCAGTTT GCCAAGCAGACCGGCCAGTGGATTGGCATGGTGGAAAACTTCAACCAGGCACTTAAGGAAATCGGGGATG TGGAGAACTGGGCTCGGAGCATCGAACTGGACATGCGCACCATTGCCACAGCGCTGGAGTACGTCTACAA AGGGCAGCTGCAGTCTGCACCGTCCTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001105941
Insert Size:	378 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).

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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_001105941.2, NP_001099411.2

RefSeq Size: 548 bp

RefSeq ORF: 378 bp

Locus ID: 288785

UniProt ID: D3ZKU7

Cytogenetics: 7q11

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. As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. The BORC complex is most probably associated with the cytosolic face of lysosomes, may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor.[UniProtKB/Swiss-Prot Function]