

Product datasheet for **RR207557**

Bloc1s2 (NM_001037349) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bloc1s2 (NM_001037349) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bloc1s2
Synonyms: RSEP1; Sep1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207557 representing NM_001037349
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGGCGGCTGCGGAGGGCGTCCCGGCACGCGACGGGAGGAGCCGCCTCGAGACGATGCTGCGGTGG
AGACAGCTGAGGAAGCAAAGGAGCCTGCAGAAGCTGACATCAATGAACTCTGCCGGGACATGTTCTCCAA
AATGGCCACATATTTGACTGGGGAAGTACAGCCACCAGTGAAGACTACAACTCCTGAAAAATATGAAT
AAGCTCAGGAGCTTGAAGTACCTTGAAATGAAAGACATTGCTATAAACATCAGCAGAAACCTGAAGGACT
TAAACCAGAAATATGCCGGACTGCAGCCATATCTGGATCAGATCAACGTGATTGAGGAGCAGGTGGCAGC
TCTCGAGCAGGCAGCCTACAAGTTGGATGCTTATTCAAAGAACTGGAAGCCAAGTACAAGAAGTTGGAG
AAGCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207557 representing NM_001037349
Red=Cloning site **Green**=Tags(s)

MAAAAEGVPATRREEPPRDDAAVETAEAAKEPAEADINELCRDMFSKMATYLTGELTATSEDYKLLLENMN
KLTSLKYLEMKDIAINISRNLDLNQKYAGLQPYLDQINVIEEQVAALEQAAYKLDAYSKKLEAKYKLE
KR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

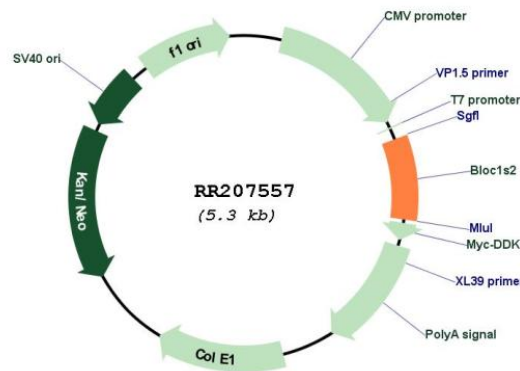


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001037349

ORF Size: 426 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:	<u>NM_001037349.2, NP_001032426.1</u>
RefSeq Size:	936 bp
RefSeq ORF:	429 bp
Locus ID:	293938
UniProt ID:	<u>Q32WR5</u>
Cytogenetics:	1q54
MW:	16.1 kDa
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. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor. May play a role in cell proliferation.[UniProtKB/Swiss-Prot Function]