

## Product datasheet for **RN207557**

### **Bloc1s2 (NM\_001037349) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bloc1s2 (NM\_001037349) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Bloc1s2  
**Synonyms:** RSEP1; Sep1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN207557 representing NM\_001037349  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGGCGCTGCGGAGGGCGTCCCGGCACGCGACGGGAGGAGCCGCCTCGAGACGATGCTGCGGTGG  
AGACAGCTGAGGAAGCAAAGGAGCCTGCAGAAGCTGACATCAATGAACTCTGCCGGACATGTTCTCCAA  
AATGGCCACATATTTGACTGGGGAAGTACAGCCACCAGTGAAGACTACAACTCCTGAAAAATATGAAT  
AAGCTCACGAGCTTGAAGTACCTTGAAATGAAAGACATTGCTATAAACATCAGCAGAAACCTGAAGGACT  
TAAACCAGAAATATGCCGGACTGACCCATATCTGGATCAGATCAACGTATTGAGGAGCAGGTGGCAGC  
TCTCGAGCAGGCAGCCTACAAGTTGGATGCTTATTCAAAGAACTGGAAGCCAAGTACAAGAAGTTGGAG  
AAGCGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001037349  
**Insert Size:** 429 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).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001037349.2</u> , <u>NP_001032426.1</u>
<b>RefSeq Size:</b>	936 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	293938
<b>UniProt ID:</b>	<u>Q32WR5</u>
<b>Cytogenetics:</b>	1q54
<b>Gene Summary:</b>	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]