

## Product datasheet for **MC219406**

### **Bbs1 (NM\_001033128) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bbs1 (NM_001033128) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bbs1
Synonyms:	AI451249; D19Ertd609e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219406 representing NM\_001033128  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCGGCGTCTTCATCGGATTCTGACAGCGGGCAGCTGAGAGCAACGAAGCCAATTCTAAATGGC  
 TGGACGCACACTACGACCCCATGGCCAACATCCACACCTTCTCCTCCTGCCTGTCACTGGCAGATTTGCA  
 TGGCGATGGGGAGTACAAGCTGGTGGTGGGAGACCTTGGCCCAGGTGGGACGAGCCCGCCTGAAGGTG  
 CTCAAAGGACCCACAGTCTGACGGAGAGCCACTGCCTGCCCTGCCAGCCTCGGCTGCCACCTTCTCA  
 TGGACCAACACGAGCCAGGACACCTGCCCTGGCACTGCCTCAGGGCCTTGTGTCTATGTTATAAGAA  
 CCTTAGACCTACTTCAAGTTCAGCCTGCCCCAGTTACCTCCAAACCTTTGGAACAGGACGTTTGGAA  
 CAAGCCAAAGAGGACCAGATTGACCCCTAACCTGAAGGAGATGCTGGAGGACATCAGGAAAAGGCAG  
 ACGTGCCTTTGTCTGTGCAGTCACTCAGTTTCTGCAGCTGGAGCTGAGTAAAATGGAGGCGTTTGTAA  
 CCAGCACAAAGTCCAAGGTTATCAAGCGCCAGACAGTCATCACCACCATGACCACCTGAAGAAGAACCTG  
 GCAGATGAGGACGCAGCTCCTGTCTGGTCTAGGCACCTGAGAGCAAGGAACTCCTAGTGTGGACCCCTG  
 AGGCCTTACCATTTTGGCCAAGATGAGCCTGCCAGTGTCCCTGTCTTCTGGAGGTTTCCGGCCAGTT  
 TGATGTGGAGTTCGGTTGACTGCTGCCTGCCAAATGGGAGCATCTATATCCTGAGAAGAGACTCCAAA  
 CACCCCAAGTACTGCATCGAGTTGAGTGCCAGCCAGTGGGGCTGGTCCGGGTACACAAGTCTGGTGG  
 TGGGCAGCACCCAAGAGAGTCTGCATGGCTTACCACAAAGGGTAAGAAGCTGTGGACAGTGCAGATGCC  
 TGCAGCCATCCTGACCATGAACCTCCTGGAGCAGCGATCCCGAGGCTGCAAGCTGTATGGCTGCTCTG  
 GCCAATGGGGAAGTCCGAATTTACCGAGACAAGGCCCTGCTCAATGTATCCATGCCCGGATGCAGTAA  
 CCAGCCTGTGCTTTGGCCGATACGGGCGAGAAGACAACCCCTCATGACTACTAGAGGTGGCGGCTT  
 GATCATCAAGATCCTGAAGCGCACAGCAGTGTGGTGGAAAGGGACGGGTGAGGTGGGCCACCGCTAGCA  
 CAGACCACAAAACCTAGTGTGCCCGAAAGACCCGGCTGTATGTGGATCAGACCTGCGGGAGCGGGAAG  
 CTGGCACAGCCATGCACCGACCTTCCAGACCGACCTCTACCTGCTGCGCCTGCGAGCTGCCAGAGCCTA  
 TGTCCAGGCCCTGGAGTCCAGCCTGAGCCCATGTCAACCACAGCTCGCGAGCCCTCAAGCTGCATGCT  
 GTGGTTCAAGGCCTGGGCCCCACCTTAAAGCTCACACTTACCTGCAGAAATCCTCAACGGCTCGACCCG  
 TTCTGGGGCTGCATGTCTGCTTCTGTACAACAAGGCGCTCTATGCCCTGCCTCAGGCTTCTTTAAGGT  
 TCCCTTGTGGTACCAGGACTCAGTACCACCTGGAAACCTTTGTGGAGAGTCTCAGTAGCAAGGGCATC  
 TCAGACATGATCAAGGTCTAGTCTTCGGGAAGGCCAGAGTGTCCCCTGCTGAGTGCCACATCAACA  
 TGCTGTGAGTGAGGGTCTGGCAGCTGCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001033128

**Insert Size:** 1782 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).

**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\\_001033128.3](#), [NP\\_001028300.1](#)

**RefSeq Size:** 5646 bp

**RefSeq ORF:** 1782 bp

**Locus ID:** 52028

**UniProt ID:** [Q3V3N7](#)

**Cytogenetics:** 19 A

**Gene Summary:** The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB3IP/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for proper BBSome complex assembly (By similarity). Plays a role in olfactory cilium biogenesis/maintenance and trafficking and is essential for the localization of the BBSome complex in the olfactory sensory neurons cilia (PubMed:15322545, PubMed:28237838). [UniProtKB/Swiss-Prot Function]