

Product datasheet for **MC204609**

Bbs2 (NM_026116) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bbs2 (NM_026116) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bbs2
Synonyms:	2410125H22Rik; AI447581
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC057184
 CGCAGTCTGCGTGATTTACCTCCTACTCCTCATCCGCTGCTAGGCAACCGGCCGGCCAAGCTGCTTGC
 CTTGCGCCTGCGTCGGGCATCTGTCTTCCGCCCTAGCTGGCGCCATCATGCTGCTGCCTGTGTTCACTC
 TGAAACTGCGCCACAAAATCAGCCCCCGCATGGTGCCATAGGGCGCTACGACGGGACTCACCCGTGCTT
 GGCTGCCGCCACCAAGCGGGCAAGGTTTTTCATTACATAACCCTCACACCGGGAGCCAGCATTTCAGTGCT
 TCCAGAGTGTTCAGAGCCCTCTGGAGTCTGATGTCTCTGCTCAACATTAACCAGACGGTCAGCTGCC
 TGGGTTCCGGGAGTCTTGAACCCAGCTGGCTATGATACTCTTTTAGTGGGGACACAGACCAGCTTTTT
 GGCTTACGACATCTACAATAATTCAGATTTGTTCTACAGAGAGGTCTCAGATGGGGCAAATGCCATTGTG
 CTGGGGACCTGGGAGACATTGCCCCACCTCTTGAATCATCGGTGAAAACCTGTGCTCTGCAGGGTTTCG
 ATCACGAAGGAAATGATCTCTTTTGACCGTACTGGAGACAATGTGCATTCTTGGCTCTGTGTGACTT
 TGACGGTGATGGGAAGACAGAGCTTCTTGTGGATCTGAAGATTTTGACATTCGAGTTTTAAAGAAGAT
 GAGATTGTGCGAGAAATGACAGAGACAGAGATAGTCACCTCTCTGTGCTATGTATGGCAGTCGGTTTG
 GTTACGCCCTTCCAATGGCACAGTTGGAGTTTATGACAAAACAGCCCGTACTGGAGGATTAATCCAA
 AAACCATGCCATGAGCATCCATGCTTTTGACATTAATTCTGATGGAGTGTGTAACCTGATAACCGGGTGG
 TCTAATGGGAAGTTGATGCTCGCAGTGACCGGACTGGAGAGTCAATTTAAAGACAACCTCTCTTCTG
 CTGTTGCTGGTGGTAGAGGGAGATTACCGGATGGATGGCCACGTACAGTTAATCTGCTGCTCAGTGGA
 TGGGAAATCCGAGGCTACCTGCCAGGCACAGCTGAGATGAAGGGGAACCTCCTGGACACAAGTGTGGAG
 CAGGACCTGATCCGAGAGCTGAGCCAGAAAAAGCAGAACCTGTTGCTAGAACTTCGCAACTATGAGGAGA
 GCACCAAGGCAGAACTGAGCAGTCCCCTGAACGAGGCCGATGGGCAGAAAGGCATAATCCCGACCAATAC
 CAGGCTCCACACAGCGCTCTCAGTCAATATGGGGAATGACTTACAAGATGCGCATGCGGAATTAGGCATT
 TCCACTTCCAATGATACTATCATCCGAGCAGTACTAATTTTTGCAGAGGGAAATTTTGTGGGTGAAAGCC
 ATGTGGTCCACCCAGCATTACAACCTTCCAGCTCCCTCCGGGTACCAATTACACCTCCCAAAGATGT
 CCCTGTGGATCTGCACCTGAAAACCTTCGTGGTTACAGAAGCAGCACCCAGTCCATGTGTTTGAACCTG
 ACAAGACAGCTGCCCGATTACCATGTATGCATTGACAAGCCAGATGCAGCTAGCGAGCCTGTCAGCT
 ACGTGAACCTCAGTGTTGCCGAGCGCACACAGAGGATGGTCACGTGGCTCAACCAGAACCTTCTGTTGCC
 AGAAGACAGTAATGTTTCAAGATTTCCCGTTTACAGTCTGTTTACATCGTTACGCAATGGTGGCCAGCTC
 TACATAAAAAATGAAACAAAGTGGTGAGATCACTGTGAATACTGACGATATTGATCTAGCTGGTGACATCA
 TCCAGTCGATCGCGTCTTTTTGCTATTGAAGACCTCAGGTAGAAGCAGATTTCCCTGTGTACTTCGA
 GGAACACGGAAAGTCTGGTGAAGGTGGACGAGTATCATTAGTGCATCAAAGCTCAGCGCCGACATG
 GCTGATAATTCTAACCTCATCCGAAGTTTGTGGTCCAGAGCAGAGGATGCTCGGCTGATGAGGGACATGA
 AAACAATGAAGAGTCGTTACATGGAGCTCTATGACCTTAATAAAGATTTGCTGAATGGATACAAGATTTCG
 CTGTAACAACCACACAGAACTGCTAGGAAACCTGAAGGCGGTGAACCAAGCAATCCAAAGAGCAGGCCGT
 CTGCGCGTTGAAAGCCAAAGAACCAGGTGATCAGTGCTTGTCCGGATGCGATTGAAAGCAACAATCA
 ACACCCTTTCAGAAATCATGCGAGTGGGCACTGCTCCTTCATAGGAGACAGGAAAGAGGAAGGCC
 CTGCAAAAGGTCTAGACACGGAGCCTGGCTGGCTCCCGGTACAGCCTGGGCATCCAGCTGCTAAGGATG
 AAACCATGCTAACTGATACAGCTAAGGACAAAGCACTCCGGCTGAAAGCCTCCTTATTGACATCAGTGG
 TGTTGCTGATTTGTATCTTAAAAATATACCACTTTTCAAGATTTAACTTGTTTTTGTACATAAAGTTAGT
 GTATGAATTTACCCCCCCCCGAAATTTACTGAAATTTAAAAATGGAGTACCTACTTTTTTCATTAATAAA
 TAAAAGGCACTGGTCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_026116
- Insert Size:** 2166 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: [BC057184](#), [AAH57184](#)

RefSeq Size: 2641 bp

RefSeq ORF: 2166 bp

Locus ID: 67378

UniProt ID: [Q9CWF6](#)

Cytogenetics: 8 C5

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 and its ciliary localization (By similarity).[UniProtKB/Swiss-Prot Function]