

Product datasheet for **MC204919**

Bbs5 (NM_028284) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bbs5 (NM_028284) Mouse Untagged Clone
Tag: Tag Free
Symbol: Bbs5
Synonyms: 1700049I01Rik; 2700023J09Rik
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC061031
GGATTTTCATCGGCGAGCTCCCTCGGTCACCATGTCTGTGCTGGACGTGTTGTGGGAGGACCGCGACGTGC
GCTTCGACGTGTCTCGCAACAGATGAAAAACAAGACCCGGGGAAGTCCTCATTGACTGTTTAGATCCAT
TGAAGACACAAAAGGAAACAATGGAGACAGAGGTAGACTCTTAGTCACAACTTAAGGATCATCTGGCAT
TCCTTGGCATTGCCAGAGTCAATCTTTCTATTGGTTACAACCTGCATATTGAATATCACAACAAGAAGTGC
CTAACTCTAAACTGCGAGGCCAAACCGAAGCTCTTTATATATTGACAAAATGCAACACTACCCGGTTTGA
GTTTATATTACAAAACCTGGTTCCCGGGAGCCCCAGACTTTTTACTTCTGTGATCGCAGTGCACAGAGCA
TATGAACTTCTAAAATGTACCGTGACTTTAAGTTGAGAAGTGCAGTCATTCAGAACAAGCAGCTGAGGT
TACTACCACAGGAGCATGTGTATGATAAGATCAATGGCGTATGGAATCTGTCCAGCGACCAGGGGAATTT
AGGAACTTTTTTATTACCAATGTGAGAATTGTGTGCCATGCCAATATGAATGACAGTTTTAATGTCAGC
ATACCATATCTGCAAATTCGTTCAATAAAGATCAGAGATTCAAAATTTGGTTTGGCGCTTGTGCATAGAAA
GCTCTCAGCAGAGTGGAGGATACGTCCTTGGCTTTAAAAATAGACCCTGTGGAAAACTACAGGAATCAGT
TAAAGAGATCAACTCACTTCACAAAGTCTATTCTGCCAGTCCAATATTTGGAGTGAATTATGAAATGGAA
GAAAAGCCACAGCCACTTGAAGCTCTGACTGTTGAACAAATTCAGATGATGTGGAAATAGACTCTGATG
ACCACACGGATGCTTTTGTGGCGTATTTTGTGATGGGAATAAGCAACAAGATCGTGAACCTGTATTTTC
AGAAGAACTGGGGCTTGAATAGAGAACTGAAGGATGGATTCACTGCAGGGACTTTGGGAAGTGATG
AGTTGATCTTGAGTTGTTGGATTCACTGCAGGGACTTTGGGATGAGTTAATCTTGAATGAGTTGAGCT
GGACCTCTATTTAAAGATATCTCAAGATTAAGATACTGCTTGCCTGCTAAAAAAAAAAAAAAAAAAAAAA
AA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Sfil-Sfil
ACCN: NM_028284
Insert Size: 1026 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC061031](#), [AAH61031](#)

RefSeq Size: 1287 bp

RefSeq ORF: 1026 bp

Locus ID: 72569

UniProt ID: [Q9CZQ9](#)

Cytogenetics: 2 C2

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 RAB31P/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 BBSome complex ciliary localization but not for the proper complex assembly (By similarity). [UniProtKB/Swiss-Prot Function]