

Product datasheet for **MC204070**

Bbs7 (NM_027810) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bbs7 (NM_027810) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bbs7
Synonyms:	8430406N16Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC031505
 GGGCTCTCCGAGGGAAGGCTTCCACAGCGGGTCCCGCCTCTCCGTGCCGCCCATGGATCTGACGTAA
 GCCGGGCAGACTACCTCCAGGTCGGAGTGACCTCTCAGAAAATATGAAGTTGCTTCTACCTCAAGACA
 AAGGGCTACACAAAAGGTGGTGTGGAGATCAAGATGGGGTAGTGATATGCTTCGGCGTGAAGAAAAGGA
 GAAGCTGTGCCAGTGTCAAGACTTTACCAGGGCAGAAGATCTCGAGGCTGGAAC TAGGAGGGCCGTCA
 ACACGCCTCAGGAGAAAACTTCATTGCTGCAGGGTCCGAGATTAGAGGCTTTACAAAGAGAGGGAACA
 GTTTCTCTCTTTTGAACCTAACCTCACGAAAGCATTAAAGCTATGTACATATCTGGCTCTGACCTTTC
 CTAGTGC AAGCTACATCTATAATCACTACTGTGATTGCAAAGACAAAATTTATTACCTTTCTGGGACA
 AAATCAATGATGTCATCTGCCTTCTGTGAAAAGTTATCTCGCGTGACACCGGTGTTGGCTGCCAGGA
 CCGGGTCTCCGAGTCTTACAGGATCTGATGTGATGATGAAATTGAGGTTCTGGTCCACCCACCGTCT
 TTAGCACTGCATAATGGAGATGGAGGTGACTCTGGAGAAGGACTTCTGTTCCGCACATCAGATGGAAGAC
 TTGGGCTTATTCAGATCACAACTCCAAACCAATACACAAATGGGAAATTCGAAATGACAAAAAGCGGGG
 AGGTATCTTGTGTGGACAGCTTTGATATCATGGGTGATGGGGTTAAAGATTTACTTGTGGGAGAGAT
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 CTGAAAGCGTCACCTCCATCCAGGGTGGCTGTGTGGGAAAAGATGGCTATGATGAAATCGTCTGCCAC
 ATATTCAGGCTGGGTGACAGGGCTGACTACAGAGCCAACCTATAAAGAGAGTGGACCAGGAGAAGAACTA
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 TGCTTCAGGAGAGAGAAAATTACCAACAGTCTTACAGTCAAGCCAAGCAAAGTCAACAGTCCCTTCATT
 CAGTATAAATGACAAGTTCACGTTGAATAAAGAAGATGCTAGCTACAGCCTCGTCTTAGAGGTGCCGACT
 GCAATAGACAATGTCCTAATACAGAGTGATGTTCCAATAGATCTACTTGTGTGGACAAGAATTTCTGCTG
 TTGTGAGCTTCAGCAGCTGTGACACAGAGTCAAACGACAACCTTTCTTCTGCTACTTATCGGTGCCAGGC
 AAATACCACAGGCTGGAGCTCAAGATTCGTTCAATTGAAGGCCAGTATGGCACACTCCAGGCATATGTG
 ACTCCAAGAATCCAACCAAAAACCTGTGAGTTGCGCAATACCACATCAAACCTCTATCACTCCATCAAA
 GAACCTCACTTTATTGACCATGACAGGCCTATGAACACACTGACTCTAACAGGCCAGTTTCAGCTTTGCTGA
 AGTTCACTCCTGGTGGTGTCTGCCTGCCTGAAGTTCCTGAAAAGCCTCCAGCAGGGGAATGTGCAACA
 TTTTACTTTTCAAGTACCTTTCTGGATACACAACCTGAGTGTGTATACAGGAAAGGAGAAGGAGTTTTTA
 AATCTGACAACATTTCTACAATATCCATCCTAAAAGATGTGCTTTCTAAAGAAGCTACAAAAAGGAAAAT
 TAATCTCAACATATCATAACGAGATAAACAGGTGTCTGTCAAGCACACTTTAAAGCTAATCACCCGAAG
 CTGGAGTATCAGCTGCTTCTGGTAAGAAAGTGCAGTTAATCGATGCCCTGAAGGAATTGCAGGTTTCATG
 AGGGAAAATACAGACTTTCTGACTCCAGAGTACCGATGTATTCTAGAAGAGGCAGATCATCTACAAGAGGA
 ATACAAAAAGCAGCCTGCACATCTTGAAGACTCTATGGTATGATTACTGATCTTTTTATAGATAAATTT
 AAGTTCAAAGGCACTAATGTAAAAACCAAAGTACCCATGCTCCTGGAGATTCTCGACAGCTACGACCAGA
 ACACACTGATTTCTTCTCGATGCAGCATGAAAGATAAACAAGGTAGGCCAACAGGACAGCCGAAGAAG
 CAAGCAGAGCCTGATCAGACCCGAGGCACCTCAGATGGACGTCCACATGTAATCAGAAGAGTGACGGCC
 TCTAAGCATCCCCCTACGAGTACCCATGAAAGTCTTTTTATTGTGACTTGAGGGGAAAAGAAGATCTT
 TTAGTCATTCAATTCAGGGGAATATTGCATTGAAAGTTTTAGAATACTATTAATAAGAGCAAATAAGCT
 GTCTTTTGTTTTCAAAGGGTAGTTATGAAAACAATGATTACATTTTATTATTTTATGTATGATTCTTA
 ACTATTAATGTGAACATTTAAGGTAATAA AAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_027810
- Insert Size:** 2148 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: [BC031505](#), [AAH31505](#)

RefSeq Size: 2602 bp

RefSeq ORF: 2148 bp

Locus ID: 71492

UniProt ID: [Q8K2G4](#)

Cytogenetics: 3 B

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]