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Product datasheet for MC222403

Bbs9 (NM_178415) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bbs9 (NM_178415) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bbs9
Synonyms:	E130103I17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC222403 representing NM_178415
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTTATTTAAAGCCCGTGACTGGTGGTCTACTGTGTTGGGAGAAAAAGAAGAATTTGACCAGGGCT
GCTTATGCTTGGCTGATGTGGACAACAGTGGGAACGGCCACGATAAAATCATTGTGGGCAGCTTCATGGG
CTACCTGAGAATCTTTAGTCCCCATTCTGTAAAAGCTGGAGGTGGGCCTCAGGCTGAAGATTTACTTCTA
GAAGTGCATCTGCGGGACCCAGTGCTGCAAGTGGAAGTCGGGAAGTTTGTCTCGGGCACCGAGATGCTTC
ATCTGGCCGTGCTGCACTCCCGGAAGCTCTGTGTCTACTCCGTCTCAGGGACATTGGGAAATGTGGAACA
TGGAAACCAATATCAGATAAAACTAATGTATGAGCACCATCTTCAGAGGACGGCCTGCAATATGACGTAT
GGACCCTTTGGTGGTGTAAAAGGTCGGGATTTAATTTGTATCCAGTCTCTGGATGGGATGCTGATGGTGT
TTGAGCAGGAAAGCTATGCGTTTGGGAGGTTTCTCCCTGGTTTTCTTCTGCCTGGCCCTCTTGCTTACAG
TCCCCGCACGGATTCCTTCATAACTGTGTCTTCTTGCAGACAAGTGGAAAGTTACAAGTACCAGGTACTT
GCCTTTGCCACAGATGCAGACAAGAAGCAGGAGATGGAACAGCAAAAACTTGGTTCTGGAAAGCGGCTAG
TTGTGGACTGGACTCTGAATATTGGCGAGCAAGCCCTTGATATCTGTATCTTCCCTTTGAACCAATCTGC
ATCTTCTGTTTTTGTTCTTGGTGAGAGAAACTTCTTTTGCCTAAAGGATAATGGGCAGATTCGATTCATG
AAGAAGCTCGGTTATAACCCCAGTTGTTTTCTACCGTACTGCTCAGTTTCTGAAGGTACAATAAATACTT
TGATTGGAAACCATAACCACATGCTGCATATTTACCAGGACGTGACACTGAAGTGGGCCACACAACTCCC
CCACGTCCCCGTGGCCGTCAGAGTAGGCTGTTTTCATGATTTGAAGGGAGTGATAGTGACTCTCAGTGAT
GACGGTCACCTGCAGTGCTCGTATCTGGGGACAGACCCTTCTTTGTTCCAGGCTCCAAAAGTTGAATCAA
GAGAGCTCAACTATGATGAACTTGATGTGGAATTGAAAGAACTTCAGAAAATCATCAAAGATGTAAAGTT
GCAAGGTGTTTGGCCCTTGACTGAACAGGAAGATGACTTGAAAGTCTCTGCTTCAGTGTCTTCTACCCTG
GATTCTGTGTCTCAAGCCACCAATGTGGAACCTGGAGCTGACTCTGTCCCGTCCATCACAGTGAAGATTA
CCCTGCAGAACCGAGTGGTGTTGCAGAAGGTCAAGCTGTCTATCTATGTGCAGCCTCCACTACAGTTGAC
TTGTGATCAGTTCACCTTTGACTTCACGGTTCCAGATATGACGAGTTCAGTAGCGTTTTCTGTGTACCTG
AAGAGAAACTACACACCATCCGAGTTAGAAGGAAATGCTGTTGTTTCTTACTCCAGACCGACAGGTATTC
CTCGGGTTGTCCAATGTAAATTTAGACTTCCTCTGAAACTGATTTGCCTACCTGGTCAGCCTTCAAAAAC
TGCAAGCCACAAACTAACTATAGACACCAACAAATCTCCTGTCAGTCTGCTCGGTCTCTTCCCAGACTTT
GCCAACCCATCAGATGACGACCAAGTGAATGTAATGGGCTTCCGTCTCCTAGGAGGCGCTCGAGTGACTC
TTCTTGCTTCCAGAACATCCCAACGATACCGCATTCAGAGCGAACAGTTTGAAGATCTCTGGCTCATAAC
CAATGAACTCATCCTCCGCCTTCAGGAACATTTTGAAAAACAGGGAACCAAAGACTTTTCGTGTTCTTTT
TCTGGGTGTGTGCCCCTTCAAGAATATTTTGAGTTGATTGATCATCATTTTGAGCTGCGGATAAATGGTA
AAAAATTGGAAGAACTTTTATCTGAAAGAGCTGTACAATTTCGGGCCATTCAGCGTCGGCTTCTGACAAG
ATTCAGAGACAAGACCCCTGCCCCACTGCAGCACCTGGACACCCTGCTGGACGGGACATACAAGCAGGTG
ATTGCTCTAGCAGATGCGATCGAGGAGAACCAGGACAGGCTGTTGCAGTCATTCTCAGGCCTGAAGAGTG
CCACCCATTTGCTGATCCTGCTAATCAGGCTGTGGCAGAGGCTGAGCGCTGACCAGACTGCTATTCTGGA
AGCAGCATTTCTGCCACTACAGGAAGACACGCAGGAACTGGGCTGGGAAGAAACCGTGGATGCTGCCATT
GCCTACCTTTTGAAAACCTGCCTGTCGAAGAGTTCCAAGGAGCAGGCTTTGAACCTCAGCAGCCAACTGA
ACATACCCAAAGATACCAGCCGGCTGAAGAAGCACATCACCCTGCTGTGTGATAGGTTAGCCAAAGGTGG
GCGTCTCTGCGTGAGCACAGATGCAGCGGCCCCGCAGGCCATGGTTGTGCCAGGTGGCTGTACTCCAATC
CCAGAGTCAGACCTAGAGGAAAGGTCACTAGATGACTCCACAGAGCTGTTTACCAACCACAAGCACCTCA
TGACCGAGCCCCCCATGCCTGAAGTCTCAGCCCGCCAAGGAGTTTTGGAATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2009_b03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_178415

Insert Size:	2643 bp
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:	NM_178415.1, NP_848502.1
RefSeq Size:	3438 bp
RefSeq ORF:	2643 bp
Locus ID:	319845
UniProt ID:	Q811G0
Cytogenetics:	9 A3
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. Required for proper BBSome complex assembly and its ciliary localization (By similarity).[UniProtKB/Swiss-Prot Function]