

Product datasheet for **MR224515**

Bbs9 (NM_178415) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR224515 representing NM_178415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTATTTAAAGCCCGTACTGGTGGTCTACTGTGTGGGAGAAAAAGAAGATTTGACCAGGGCT
 GCTTATGCTTGGCTGATGTGGACAACAGTGGGAACGGCCACGATAAAATCATTGTGGGCAGCTTCATGGG
 CTACCTGAGAATCTTTAGTCCCCATTCTGTAAAAGCTGGAGGTGGGCCTCAGGCTGAAGATTTACTTCTA
 GAAGTGCATCTGCGGGACCCAGTCTGCAAGTGGAAAGTGGGAAGTTTGTCTCGGGCACCAGATGCTTC
 ATCTGGCCGTGCTGCACTCCCGAAGCTCTGTGTACTCCGTCTCAGGGACATTGGGAAATGTGGAACA
 TGGAAACCAATATCAGATAAACTAATGTATGAGCACCATCTCAGAGGACGGCCTGCAATATGACGTAT
 GGACCTTTGGTGGTGTAAAAGGTGGGATTTAATTTGTATCCAGTCTCTGGATGGGATGCTGATGGTGT
 TTGAGCAGGAAAGCTATGCGTTTGGGAGTTTCTCCCTGGTTTTCTTCTGCCTGGCCCTCTTGCTTACAG
 TCCCCGCACGGATTCCTTCATAACTGTGTCTTCTTGCAGACAAGTGGAAAGTTACAAGTACCAGGACTT
 GCCTTTGCCACAGATGCAGACAAGAAGCAGGAGATGGAACAGCAAAAACCTGGTTCTGGAAGCGGCTAG
 TTGTGGACTGGACTCTGAATATTGGCGAGCAAGCCCTTGATATCTGTATCTTCCCTTTGAACCAATCTGC
 ATCTTCTGTTTTTGTCTTGGTGTGAGAGAACTCTTTTGCCTAAAGGATAATGGGCAGATTGCGATTCATG
 AAGAAGCTCGGTTATAACCCCAAGTTGTTTTCTACCGTACTGCTCAGTTTCTGAAGGTACAATAAATACTT
 TGATTGGAACCATAACCCATGCTGCATATTTACCAGGACGTGACACTGAAGTGGGCCACACAACCTCCC
 CCACGTCGCCGTGGCCGTGAGTAGGCTGTTTTCATGATTTGAAGGGAGTGATAGTGACTCTCAGTGAT
 GACGGTCACCTGCAGTGTCTGATCTGGGACAGACCTTCTTTGTTCCAGGCTCCAAAAGTTGAATCAA
 GAGACTCAACTATGATGAACCTGATGTGGAATTGAAAGAATCAGAAAATCATCAAAGTCAAAAGTT
 GCAAGGTGTTTGGCCCTTGACTGAACAGGAAGTGAAGTGAAGTCTCTGCTTCAAGTGTCTTACCCCTG
 GATTCTGTGTCTCAAGCCACCAATGTGGAACCTGGAGCTGACTCTGTCCCGTCCATCACAGTGAAGATTA
 CCCTGCAGAACCAGTGGTGTGCGAGAAGTCAAGCTGTCTATCTATGTGCAGCCTCCACTACAGTTGAC
 TTGTGATCAGTTCACCTTTGACTTACGGTTCCAGATAGACGAGTTCAGTAGCGTTTTCTGTGTACCTG
 AAGAGAACTACACACCATCCGAGTTAGAAGGAAATGCTGTTGTTTTCTACTCCAGACCGACAGGTATTC
 CTCGGGTTGTCCAATGTAATTTAGACTTCTCTGAAACTGATTTGCCTACCTGGTCAGCCTTCAAAAAC
 TGCAAGCCACAACTAACTATAGACACCAACAAATCTCCTGTGAGTCTGCTCGGCTCTTCCAGACTTT
 GCCAACCCATCAGATGACGACCAAGTGAATGTAATGGGCTTCGCTCCTAGGAGCGCTCGAGTGACTC
 TTCTTGCTTCCAGAACATCCCAACGATACCGCATTTCAGAGCGAACAGTTTGAAGATCTCTGGCTCATAAC
 CAATGAACCTATCTCCGCCCTCAGGAACATTTTGA AAAACAGGGAACCAAGACTTTTTCGTGTTCTTTT
 TCTGGGTGTGTGCCCTTCAAGAATATTTTGTGATTGATTGATCATATTTTGTGAGCTGCGGATAAATGGTA
 AAAAATTGGAAGAACTTTTATCTGAAAGAGCTGTACAATTTGGGGCCATTTCAGCGTCCGGCTTCTGACAAG
 ATTCAGAGACAAGACCCCTGCCCACTGCAGCACCTGGACACCCTGTGGACGGGACATAACAAGCAGGTG
 ATTGCTTAGCAGATGCGATCGAGGAGAACCAGGACAGGCTGTTGCAATCATTCTCAGGCCTGAAGAGTG
 CCACCCATTTGCTGATCCTGCTAATCAGGCTGTGGCAGAGGCTGAGCGCTGACCAGACTGCTATTTCTGGA
 AGCAGCATTTCTGCCACTACAGGAAGACACGACGAACTGGGCTGGGAAGAAACCGTGGATGCTGCCATT
 GCCTACCTTTTGA AACCTGCCTGTGAAAGATTCCAAGGAGCAGGCTTTGAACCTCAGCAGCCAACTGA
 ACATACCCAAAGATACCAGCCGGCTGAAGAAGCACATCACCTGTGTGTGATAGTTAGCCAAAGTGG
 GCGTCTCTGCGTGAGCACAGATGCAGCGGCCCGCAGGCCATGGTTGTGCCAGGTGGCTGTACTCCAATC
 CCAGAGTCAGACCTAGAGGAAAGGTCACTAGATGACTCCACAGAGCTGTTTACCAACCACAAGCACCTCA
 TGACCGAGCCCCCATGCCTGAAGTCTCAGCCCCCAAGGAGTTTTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224515 representing NM_178415
 Red=Cloning site Green=Tags(s)

MSLFKARDWSTVLGEKEEFDQGCLCLADVNSGNHDKIIVGSFMGYLRIFSPHSVKAGGGPQAEDLLL
 EVHLRDPVLQVEVGK FVSGTEMLHLAVLHSRKL CVYSVSGT LGNVEHGNQYQIKL MYEHHLQRTACNMTY
 GPFGGVKGRDLICIQSLDGLMVFEQESYAFGRFLPGFLLPGPLAYS PRTDSFITVSSCRQVESYKYQVL
 AFATDADKKQEMEQQKLGSGKRLVVDWTLNIGE QALDICIFPLNQSASSV FVLGERNFCLKDNQIRFM
 KKLGYNPSCFLPYCSVSEGTINTLIGNHNHMLHIYQDVTLKWATQLPHVPVAVRVGCFHDLKGVIVT LSD
 DGHLQCSYLGTDP SLFQAPKVESRELN YDELDELVELKELQKIKDVK LQGVWPLTEQEDDLKVSASVSSTL
 DSVSQATNVEPGADSVPSITVKITLQNRVVLQKVKLSIYVQPPLQLTCDQFTDFTV PDMTSSVAFSVYL
 KRNYTPSELEGNVVSYSRPTGIPRVVQCKFR LPLKLC LCPGQPSKTASHKLTIDTNKSPVSL LGLFPDF
 ANPSDDDQVNVMGFRLLGGARVTL LASRTSQR YRIQSEQFEDLWITNELILRLQE HFEKQGT KDFSCSF
 SGCVPLQEYFELIDH HFE LRINGK KLEELL SERAVQFRATQRRL TRFRDKTPAPL QHLDTL LDGTYKQV
 IALADAI EENQDRLLQSF SGLKSATHLL ILLIRLWQRLSADQTA ILEAFLPLQEDT QELGWEETV DAAI
 AYLLKTCLSKSSKEQALNLSSQLNIPK DTSRLK KHITLLCDRLAKGGRLCVSTDAAPQAMVVP GGCTPI
 PESDLEERSLDDSTELFTNHKHLMT EPPMPEVSARQGVLE

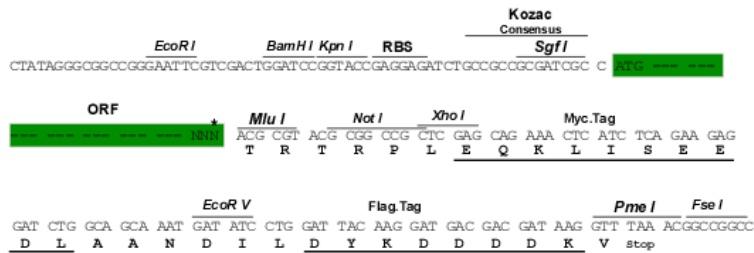
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

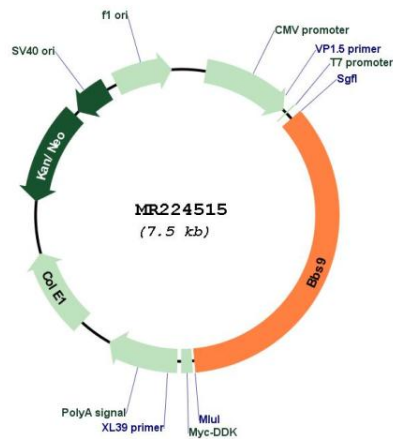


* The last codon before the Stop codon of the ORF

ACCN:	NM_178415
ORF Size:	2640 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none"> 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:	<u>NM_178415.1, NP_848502.1</u>
RefSeq Size:	3438 bp
RefSeq ORF:	2643 bp
Locus ID:	319845
UniProt ID:	<u>Q811G0</u>
Cytogenetics:	9 A3
MW:	98.5 kDa

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. Required for proper BBSome complex assembly and its ciliary localization (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR224515