

## Product datasheet for **MR210222**

### **Bbs7 (NM\_027810) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bbs7 (NM_027810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bbs7
Synonyms:	8430406N16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210222 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATCTGACGTTAAGCCGGGCAGACTACCTCCAGGTCGGAGTGACCTCTCAGAAAATATGAAGTTGC  
TTCCTACCTCAAGACAAAGGGCTACACAAAAGGTGGTTGTTGGAGATCAAGATGGGGTAGTGATATGCTT  
CGGCGTGAAGAAAGGAGAAGCTGTGCCAGTGTTCAAGACTTTACCAGGGCAGAAGATCTCGAGGCTGGAA  
CTAGGAGGGGCCGCTCAACACGCCTCAGGAGAAAATCTTCATTGCTGCAGGGTCCGAGATTAGAGGCTTTA  
CAAAGAGAGGGAAACAGTTTCTCTCTTTTGAACCTAACCTCACGGAAAGCATTAAAGCTATGTACATATC  
TGGCTCTGACCTTCTCAGTGAAGCTACATCTATAATCACTACTGTGATTGCAAAGACAAAATTAT  
TACCTTTCTGGGACAAAATCAATGATGTCATCTGCCTTCTGTGGAAAAGTTATCTCGCGTGACACCGG  
TGTTGGCCTGCCAGGACCGGGTCTCCGAGTCTACAGGGATCTGATGTGATGTATGAAATTGAGGTTCC  
TGGTCCACCCACCGTCTTAGCACTGCATAATGGAGATGGAGGTGACTCTGGAGAAGGACTCTGTTCGGC  
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TTTGATCAGATGCTGTCTGAAAGCGTCACCTCCATCCAGGGTGGCTGTGTGGGAAAAGATGGCTATGATG  
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CACCTGCAGTTAAAGGTGCTTCAGGAGAGAGAAAATTACCAACAGTCTTCACAGTCAAGCCAAGCAAAGT  
CAACAGTCCCTTCATTCAGTATAAATGACAAGTTCACGTTGAATAAAGAAGATGCTAGCTACAGCCTCGT  
CTTAGAGGTGCGGACTGCAATAGACAATGTCCTAATACAGAGTGATGTTCCAATAGATCTACTTGATGTG  
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GCTAATTCACCCGAAGCTGGAGTATCAGCTGCTTCTGGCTAAGAAAAGTGCAAGTAAATCGATGCCCTGAAG  
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ATCATCTACAAGAGGAATACAAAAGCAGCCTGCACATCTTGAAGAGACTCTATGGTATGATTACTGATCT  
TTTTATAGATAAATTTAAGTTCAAAGGCACTAATGTAAAACCAAAGTACCCATGCTCCTGGAGATTCTC  
GACAGCTACGACCAGAACACACTGATTTCTTTCTTCGATGCAGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210222 protein sequence  
 Red=Cloning site Green=Tags(s)

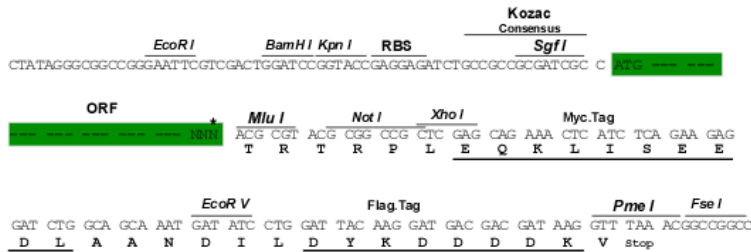
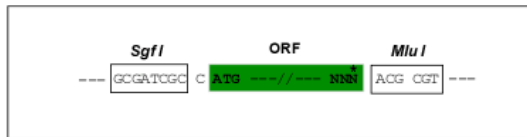
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MDLTLSRADYLQVGVTSSQKTMKLLPTSRQRATQKVVVGDQDGVVICFVKKGEAVPVFKTLPGQKISRLE
LGGAVNTPQEKIFIAAGSEIRGFTKRKQFLSFETNLTESIKAMYISGSDLFLSASYIYNHYCDCKDQNY
YLSGDKINDVICLPVEKLSRVTPVLACQDRVLRVLOQSDVMYIEVPGPPTVLALHNGDGGDSGEGLLFG
TSDGRLGLIQITTSKPIHKWEIRNDKKRGGILCVDSFDIMGDGVKDLLVGRDDGMVEVYSFENANEPVLR
FDQMLSESVTSIQGGCVGKDGYDEIVLATYSGWVTGLTTEPTHKESGPGEELKLNQEMQNKISSLRSEIE
HLQFKVLQERENYQQSSQSSQAKSTVPFSINDKFTLNKEDASYSLVLEVRTAIDNVLIQSDVPIDLLDV
DKNSAVVSFSSCDTESNDNLLATYRCQANTTRLELKIRSIIEGQYGLQAYVTPRIQPKTCQVRQYHIKP
LSLHQRTHFIDHRPMNTLTLTGQFSFAEVHSWVVFCLPEVPEKPPAGECATFYFQNTFLDTQLECVYRK
GEGVFKSDNISTISILKDVLSKEATKRKINLNISYEINEVSVKHTLKL IHPKLEYQLLLAKKVQLIDALK
ELQVHEGNTDFLTPEYRCILEEADHLQEEYKQPAHLERLYGMITDLFIDKFKFGTNNVKTKVPMLEIL
DSYDQNTLISFFDAA
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_027810

**ORF Size:** 2148 bp

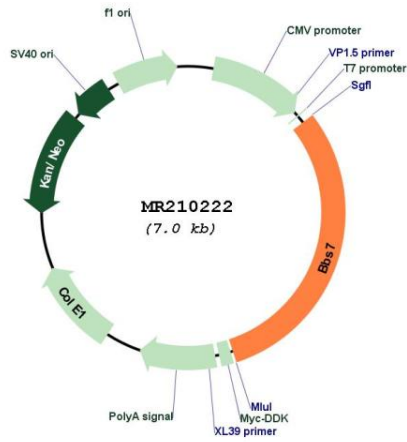
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027810.1</a> , <a href="#">NM_027810.2</a> , <a href="#">NM_027810.3</a> , <a href="#">NP_082086.1</a>
<b>RefSeq Size:</b>	2598 bp
<b>RefSeq ORF:</b>	2148 bp
<b>Locus ID:</b>	71492
<b>UniProt ID:</b>	<a href="#">Q8K2G4</a>
<b>Cytogenetics:</b>	3 B
<b>MW:</b>	80.3 kDa
<b>Gene Summary:</b>	<p>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 BBSome complex ciliary localization but not for the proper complex assembly (By similarity). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR210222