

Product datasheet for **MR214879**

Bbof1 (NM_028377) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bbof1 (NM_028377) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bbof1
Synonyms:	2900006K08Rik; AI427784; Ccdc176
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR214879 representing NM_028377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGCAAGGACAAGAGGAAAGACAAGAGGAAAGACAAGAGGAAAGGCAAAAAACAAGGCAAGAAGC
 CAAAGAAAATAATCAAATCAGATGAACCTGCAATTGAAAGAGCCAAAGCCAATGCCTCTCTTTGGGAGGC
 CAGATTGGAAGTACAGAACTCTCTAGGATTGAATATCGTGATACTTCCCGAAGACTGGCAAAAAATAAT
 GAAGACTTAAAGAAACAGCAATATAACATGAAAAAGACATTATGTCTGTATTAAGCTACTTGAAGAAGC
 AGGATCAAGAGAAAGATAATATGATAGAAAACTGAAGCAGCAGTTGGCTAAAACAAGGAAAAAGCCCA
 GGAAGAGAAGGAAAAATTGGAACAAAAGTATGCTCTGCAAGTGAAGTGGAGGGACAGTTTCATCAA
 AAAGCCAAGGAAATCGGCATGATTCAGACAGAGCTAAAGACAATAAAACAATCCAGAAGAGAAAAATAC
 AAGTGGAGAAAGAATTAGATGATCTGAAAGAAAATTTAAGGAAGTCAAGAGAACTATCAGGAGACTCT
 TAGAAGACTAGAAAGCAGATTTTTTGAAGAAAAGCACCGTTTGGAGCAAGAGGCTGAGAAGAGGATCATA
 ATGCTGGCAGAGAGAGCTACCATGAAGCTGTAGTGCAGTTGAACACTGCTGGAAGAAATGTTTTCAAAG
 AGAATGTTTATCTTCACAAGCGCTTGATACCACTTGAAGGAAGCTGAAATTCCTCCAGCAAACTCCAA
 GAAGATTGAAGAAAACCTTCTGCCTTTTACAACAAAAGGAAATCAATGATCTGTTGGTTAAGGAAAAG
 ATTATGCAACTCACCCAGCAGAAATCACAAATCCAACTCTCCAGAAGAAGGTGGTAAGCTTGGAGAAGC
 CTCTGACCTACATGACCACAGAGTTTGGAGCTGAAGTGTGAAACTGCAGCAAAAGGCAATCATAGAGAA
 CCAAGCAGGCTTGGTAGAGATTGACAAGCTGCAGCAACTTCTTCAGATGAAGGACAGGGAGATGAACCGA
 GTGAAGAGGCTGGCTAAGAACATACTGGATGAGAGGACAGAAGTGAACAGTTCTTTCTAGACGCTCTCT
 ACGAAGTGAAGCAACAGATTCTGGCCAGCAGGAAGCATTATAAGCAGATAGCACAAAGCTTTCAATTT
 AAAAAATGAGAGCAGCATGTGCGGAAAAACAGAATATCCAGAATCAGGACCTTTGATGGCAAGAACA
 AGTACCAATAGTGTGAACCAGGATCTTTGGAGGCTGAAAAATGGCCAAGTACTCAAAAAATGTGGATA
 TTAGAGATTTGACCTGGGAGCAGAAGGAAAAGGTCTTAAGATTGCTTTTGC AAAAATGAATGGTTTTGC
 TGCTAGGAAATACAGTCAGAGTTCTAAGCCTCCTGTTCCAGACCATATTTATGGCAGTGGAGAAATG
 AAAGAACTGGGGATGAAAAAACCTTCTAGATCAAACCTTCATCACCCAGCAAGCGCCAGTATCAGACT
 CCAATAGAATGGTGTACCCGATGTTATTCCTCAAGGATTACAGGACTCTGACATAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR214879 representing NM_028377
 Red=Cloning site Green=Tags(s)

MPAKDKRKDKRKDKRKGNKNGKEPKKI IKSDEPAIERAKANASLWEARLEVTELSRIEYRDTSRRLAKNN
 EDLKKQYINMEKDIMSVLSYLKKQDQEKDNMIEK LKQQLAKTKEKAQEEKEKLEQK YALQVSELEGFHQ
 KAKEIGMIQTELKTIKQFQKRKIQVEKELDDLKENLRNSEKNYQETLRRLESRFEEKHRLQEAEKRII
 MLAERAHHEAVVQLNTAGRNVFKENVYLHKALAYHLKEAEILQQNSKKIEENHSCLLQQKEINDLLVKEK
 IMQLTQQKSQIQTLQKKVVSLLENALTYMTTEFEAEVLKLQQKAI IENQAGLVEIDKLQQLQMKDREMNR
 VKRLAKNILDERTEVEQFFLDALYEVKQQLASRKHYKQIAQAANLKMRAACAGKTEYPRIRTFDGKEQ
 STNSVNDLLEAEKWPTTQKNVDIRDLTWEQKEKVLRLLF AKMNGFAARKYSQSSKPPVPDHI IYGSSEM
 KETGDENLLDQTFITQQAPVSDSNRMVSPDVIPQGLQSDIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9079_a09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_028377

ORF Size: 1599 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).

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_028377.3](#), [NP_082653.2](#)

RefSeq Size: 2190 bp

RefSeq ORF: 1602 bp

Locus ID: 72873

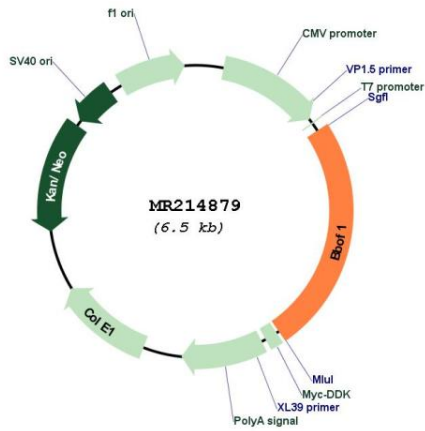
UniProt ID: [Q3V079](#)

Cytogenetics: 12 D1

MW: 62.5 kDa

Gene Summary: Basal body protein required in multiciliate cells to align and maintain cilia orientation in response to flow. May act by mediating a maturation step that stabilizes and aligns cilia orientation. Not required to respond to planar cell polarity (PCP) or flow-based orientation cues (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214879