

Product datasheet for **MG214879**

Bbofl (NM_028377) Mouse Tagged ORF Clone

Product data:

| | |
|----------------------------------|----------------------------------|
| Product Type: | Expression Plasmids |
| Tag: | TurboGFP |
| Symbol: | Bbofl |
| Synonyms: | 2900006K08Rik; AI427784; Ccdc176 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence: >MG214879 representing NM_028377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCGGCAAGGACAAGAGGAAAGACAAGAGGAAAGACAAGAGGAAAGGCAAAAACAAGGCAAAGAAC
 CAAAGAAAATAATCAAATCAGATGAACCTGCAATTGAAAGAGCCAAAGCCAATGCCTCTCTTTGGGAGGC
 CAGATTGGAAGTCACAGAACTCTAGGATTGAATATCGTGATACTTCCCGAAGACTGGCAAAAAATAAT
 GAAGACTTAAAGAAACAGCAATATAACATGGAAAAAGACATTATGTCTGTATTAAGCTACTTGAAGAAGC
 AGGATCAAGAGAAAAGATAATATGATAGAAAACTGAAGCAGCAGTTGGCTAAAAACAAGGAAAAAGCCCA
 GGAAGAGAAGGAAAAATTGGAACAAAAGTATGCTCTGCAAGTGAGTGAGTTGGAGGGACAGTTTCATCAA
 AAAGCCAAGGAAATCGGCATGATTCAGACAGAGCTAAAGACAATAAAAACAATCCAGAAGAGAAAAATAC
 AAGTGAGAAAAGATTAGATGATCTGAAAGAAAATTTAAGGAACTCAGAGAAGAACTATCAGGAGACTCT
 TAGAAGACTAGAAAGCAGATTTTTTGAAGAAAAGCACCGTTTGGAGCAAGAGGCTGAGAAGAGGATCATA
 ATGCTGGCAGAGAGAGCTCACCATGAAGCTGTAGTGCAAGTTGAACACTGCTGGAAGAAAATGTTTTCAAAG
 AGAATGTTTATCTTACAAAGGCGCTTGCACTTGAAGGAAGCTGAAATTTCCAGCAAAAATCCAA
 GAAGATTGAAGAAAACCATCTGCCTTTTACAACAAAAGGAAATCAATGATCTGTTGGTTAAGGAAAAG
 ATTAGCAACTCACCCAGCAGAAATCACAATCCAACTCTCCAGAAGAAGTGGTAAAGCTTGGAGAAGC
 CTCTGACCTACATGACCACAGAGTTTGAAGGCTGAAGTGTGAAACTGCAGCAAAAGGCAATCATAGAGAA
 CCAAGCAGGCTTGGTAGAGATTGACAAGCTGCAGCAACTTCTTCCAGATGAAGGACAGGGAGATGAACCGA
 GTGAAGAGGCTGGTAAGAACATACTGGATGAGAGGACAGAAGTGAACAGTCTTTCTAGACGCTCTCT
 ACGAAGTGAAGCAACAGATTCTGGCCAGCAGGAAGCATTATAAGCAGATAGCACAAGCTGCTTCAATTT
 AAAAAATGAGAGCAGCATGTGCGGAAAAACAGAATATCCCAGAATCAGGACCTTTGATGGCAAAAGACAA
 AGTACCAATAGTGTGAACCAGGATCTCTTGGAGGCTGAAAAATGGCCAACACTCAAAAAAATGTGGATA
 TTAGAGATTGACCTGGGAGCAGAAGGAAAAGGCTTAAAGATTGCTCTTTGCGAAAAATGAATGGTTTTGC
 TGCTAGGAAATACAGTCAAGTCTAAGCCTCCTGTTCCAGACCATATTTATGGCAGTGGAGAAATG
 AAAGAAAATGCGGATGAAAAATAACCTTCTAGATCAAACCTTCAATCACCCAGCAAGCGCCAGTATCAGACT
 CCAATAGAATGGTGTACCCCGATGTTATTCCTCAAGGATTACAGGACTCTGACATAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >MG214879 representing NM_028377
 Red=Cloning site Green=Tags(s)

MPAKDKRKDKRKDKRKGKNGKKEPKKI IKSDEPAIERAKANASLWEARLEVTELSRIEYRDTSRRLAKNN
 EDLKKQYINMEKDIMSLSYLKKQDQEKDNMIEKLLKQLAKTKEKAQEEKEKLEQKYALQVSELEGFHQ
 KAKEIGMIQTELKTIKQFQKRKIQVEKELDDLKENLRNSEKNYQETLRRLESRFEEKHRLEQEAERKRII
 MLAERAHAEAVVQLNTAGRNVFKENVYLHKALAYHLKEAEILQQNSKKIEENHSCLLQQKEINDLLVKEK
 IMQLTQKSQIQTLQKVVSLLENALTYMTTEFEAEVLKQQKAI IENQAGLVEIDKLQQLQMKDREMNR
 VKRLAKNILDERTEVEQFFLDALYEVKQILASRKHYKQIAQAAFNLKMRAACAGKTEYPRIRTFDQKEQ
 STNSVNQDILLEAEKWPTTQKNVDIRDLTWEQKEKVLRLLLFAKMNGFAARKYSQSSKPPVPDHI IYSGEM
 KETGDENLLDQTFITQQAPVSDSNRMVSPDVIPQGLQSDIA

TRTRPLE - GFP Tag - V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

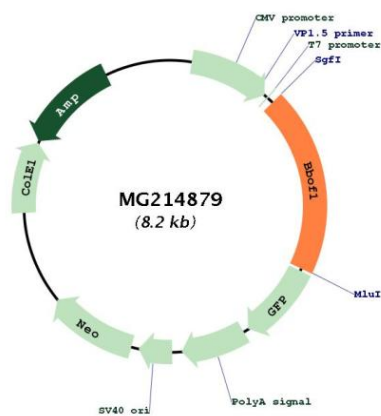
RefSeq: [NM_028377.3](#), [NP_082653.2](#)

RefSeq Size: 2190 bp

| | |
|---------------|------------------------|
| RefSeq ORF: | 1602 bp |
| Locus ID: | 72873 |
| UniProt ID: | Q3V079 |
| Cytogenetics: | 12 D1 |

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 MG214879