

Product datasheet for **RG207270**

C14orf45 (BBOF1) (NM_025057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C14orf45
Synonyms:	C14orf45; CCDC176; FBB10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207270 representing NM_025057
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCGTCGAAGGGAAAGGACAAAAAGAAAGGCAAGAGCAAAGGCAAGACACGAAGAAGTTAATAAAAA
CAGATGAATCTGTGGTGGACAGAGCCAAGGCCAATGCCTCCCTTTGGGAGGCCAGGTTGGAAGTCACAGA
ACTCTCTAGGATTAAGTATCGTGATACTTCACGGATACTGGCAAAAGTAATGAGGACTTAAGAAAAAG
CAATGTAAAAATGGAGAAAGACATAATGTCAGTATTAAGTTACCTGAAGAAGCAGGATCAGGAGAAAGATA
ATATGATTGAAAACTGAAACAGCAATTAATGAAACAAAGGAAAAAGCCCAAGAGGAGAAGGATAAATT
GGAACAAAAGTATACAGGCAAATTAATGAACTAGAGGGACAGTTCATCAAAAAGCCAAAGAAATTGGC
ATGATTCACACAGAGCTGAAAGCAGTAAGACAATTCAGAAGAGAAAAATCCAAGTGGAGAGAGAGTTAG
ATGATCTGAAAGAGAATTTAAGAAACACAGAGCGGATACATCAGGAGACTCTTAGAAGACTGGAAGCAG
ATTTTTTGAAGAAAAGCACCGACTAGAACAAGAGGCTGAAAAGAAGATAATAATGCTAGCAGAGAGAGCC
CACCATGAGGCTATTGTGCAATTGAACGATGCTGGAAGAAATGTTTTTAAAGAGAATGATTATCTTCAGA
AAGCTCTGGCATATCACCTGAAGGAACTGACGCTCTACAAAAAACTCCCAGAAGTTGCAAGAGAGTCA
TACTTTACTTTTACATCAAAAGGAGATCAATGATCTGTTGGTTAAGGAAAAGATTATGCAACTTGTCCAG
CAGAGATCACAAATCCAAACCTTCAGAAGAAGGTAGTAACTTGGAGACTGCTCTGAGTTACATGACCA
AAGAGTTTGAGAGTGAAGTTTTAAACTGCAGCAACACGCAATGATAGAGAACCAAGCAGGTCAGGTAGA
AATTGACAAGCTGCAGCACCTTCTTCAGATGAAGGACAGGGAATGAATCGTGTGAAGAAGCTGGCCAAG
AACATACTGGATGAGAGAACAGAAGTGGAAGATTCTTTTAGATGCTCTGCACCAAGTGAAGCAACAGA
TCCTAATTAGCAGGAAGCATTATAAGCAGATAGCACAAAGCTGCTTTCAATTTAAAAATGAGAGCAGCATG
TACAGGAAGAACAGAAATATCCCAAAATCAGAACATTTGATGTCAGAGAGCACAGCACCAATAGTGTGAAT
CAGGATCTTCTGGAGGCCGAAAATGGACACATATTGAAGGAAATGTGGATATTGGAGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG207270 representing NM_025057
Red=Cloning site Green=Tags(s)

MPSKGGKDKKKGSKGKDKTKLIKTDSESVVDRAKANASLWEARLEVTLSRIKYRDTSRILAKSNEDLKKK
QCKMEKDIMSVLSYLKKQDQEKDNMIEKLKQQLNETKEKAQEEKDKLEQKYTRQINELEGQFHQAKEIG
MIHTELKAVRQFQKRKIQVERELDDLKENLRNTERIHQETLRRLESRFEEKHRLEQEAKKIIMLAERA
HHEAIVQLNDAGRNVFKENDYLQKALAYHLKETDALQNSQKLQESHTLLLHQKEINDLLVKEKIMQLVQ
QRSQIQTLQKKVVNLETALSYMTKEFESEVLKLQQHAMIENQAGQVEIDKLQHLLQMKDREMNRVKKLAK
NILDERTEVERFFLDALHQVKQQILISRKHQKIAQAANLKMRAACTGRTEYPKIRTFDGREHSTNSVN
QDLLEAENGHILKEMWILEI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025057

ORF Size: 1320 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_025057.2](#), [NP_079333.2](#)

RefSeq Size: 3123 bp

RefSeq ORF: 1590 bp

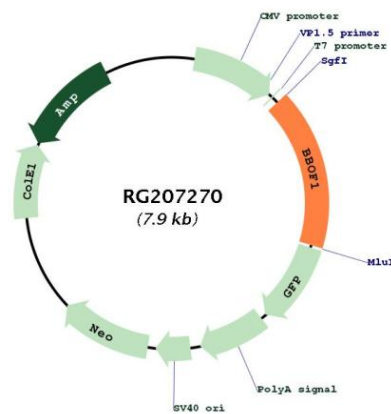
Locus ID: 80127

UniProt ID: [Q8ND07](#)

Cytogenetics: 14q24.3

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 RG207270