

Product datasheet for **SC111314**

C14orf45 (BBOF1) (NM_025057) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf45 (BBOF1) (NM_025057) Human Untagged Clone
Tag:	Tag Free
Symbol:	C14orf45
Synonyms:	C14orf45; CCDC176; FBB10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_025057, the custom clone sequence may differ by one or more nucleotides

```
ATGCCGTCGAAGGAAAGGACAAAAAGAAAGGCAAGAGCAAAGGCAAAGACACGAAGAAGTTAATAAAAA
CAGATGAATCTGTGGTGGACAGAGCCAAGGCCAATGCCTCCCTTTGGGAGGCCAGGTTGGAAGTCACAGA
ACTCTCTAGGATTAAGTATCGTGATACTTCACGGATACTGGCAAAAAGTAAAGGACTTAAAGAAAAAG
CAATGTAAAATGGAGAAAAGACATAATGTCAGTATTAAGTTACCTGAAGAAGCAGGATCAGGAGAAAAGATA
ATATGATTGAAAAACTGAAACAGCAATTAATGAAACAAAAGAAAAAGCCCAAGAGGAGAAGGATAAATT
GGAACAAAAGTATACCAGGCAAATTAATGAACTAGAGGGACAGTTCATCAAAAAGCCAAAGAAATTGGC
ATGATTCACACAGAGCTGAAAGCAGTAAGACAATTCAGAAGAGAAAAATCCAAGTGGAGAGAGAGTTAG
ATGATCTGAAAGAGAATTAAGAAACACAGAGCGGATACATCAGGAGACTCTTAGAAGACTGAAAGCAG
ATTTTTGAAAGAAAAGCACCGACTAGAACAAGAGGCTGAAAGAAGATAATAATGCTAGCAGAGAGAGCC
CACCATGAGGCTATTGTGCAATTGAACGATGCTGGAAGAAATGTTTTAAAGAGAATGATTATCTTCAGA
AAGCTCTGGCATATCACCTGAAGGAAACTGACGCTCTACAAAAAACTCCAGAAGTTGCAAGAGAGTCA
TACTTTACTTTTACATCAAAAGGAGATCAATGATCTGTTGGTTAAGGAAAAGATTATGCAACTTGTCCAG
CAGAGATCACAAATCCAACCCTTCAGAAGAAGGTAGTAAACTTGGAGACTGCTCTGAGTTACATGACCA
AAGAGTTTGAGAGTGAAGTTTTAAAAGTGCAGCAACACGCAATGATAGAGAACCAAGCAGGTCAGGTAGA
AATTGACAAGCTGCAGCACCTTCTTCAGATGAAGGACAGGGAAATGAATCGTGTGAAGAAGCTGGCCAAG
AACATACTGGATGAGAGAACAGAAGTGGAAAGATTCTTTTTAGATGCTCTGCACCAAGTGAAGCAACAGA
TCCTAATTAGCAGGAAGCATTATAAGCAGATAGCACAAGCTGCTTCAATTTAAAAATGAGAGCAGCATG
TACAGGAAGAACAGAATATCCAAAAATCAGAACATTTGATGGCAGAGAGCACAGCACCAATAGTGTGAAT
CAGGATCTTCTGGAGGCCGAAAAATGGACACATATTGAAGGAAATGTGGATATTGGAGATTTGACCTGGG
AGCAGAAGGAAAAAGTATTGCGATTGCTCTTTGCAAAAAATGAATGGCTGCTCTTAGGAAATACAACCA
GAGTTCTAGGCTCCAGTTCAGACTATGTTGTTCTGACAGTGGGAAAACAAAGGAATTTGGGGATGAA
AGTAAGCTTCAAGATAAAATCTTCATCACCCAGCAAATGCAATATCAGACTCTTCTGGTGAAGTGGTGC
TACCCACTATTCCAAAAGAACCTCAGGAGTCTGACACAGGAACCTTCTGA
```

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_025057 unedited
NNGGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGGTTTTT
AAAGAGAATGTTTATCTTCAAAAAGCTCTGGCATATCACCTGAAGGAAACTGACGCTCTA
CAAAAAAACTCCAGAAGTTGCAAGAGAGTCATACTTTACTTTTACATCAAAAGGAGATC
AATGATCTGTTGGTTAAGGGAAAAGATTATGCAACTTGTCCAGCAGAGATCACAAATCCA
AACCCCTTCAGAAGAAGGTAGTAAACTTGGAGACTGCTCTGAGTTACATGACCAAAGAGTT
TGAGAGTGAAGTTTTAAAAGTGCAGCAACACGCAATGATAGAGAACCAAGCAGGTCAGGT
AGAAATTGACAAGCTGCAGCACCTTCTTCAGATGAAGGACAGGGAAATGAATCGTGTGAA
GAAGCTGGCCAAGAACATACTGGATGAGAGAACAGAAGTGGAAAGATTCTTTTTAGATGC
TCTGCACCAAGTGAAGCAACAGATCCTAATTAGCAGGAAGCATTATAAGCAGATAGCACA
AGCTGCTTTCAATTTAAAAATGAGAGCAGCATGTACAGGAAGAACAGAATATCCAAAAAT
CAGAACATTTGATGGCAGAGAGCACAGCACCAATAGTGTGAATCAGGATCTTCTGGAGGC
CGAAAAATGGACACATATTGAAGGAAATGTGGATATTGGAGATTTGACCTGNGAGCAGAA
GGAAAAAGTATTGCGATTGCTCTTTGCAAAAAATGAATGGCTGCTCTTAGGAAATACAA
CCAGAGTTCTATGCCTCCAGTTCAGACTATGNTGTTTCTGACAGTGGGAAAACANNAGA
ATTTGNGGATGAAAGTAAGCTTNCAGATGAAATCTTCATCACCCAGCAAATTC
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_025057 unedited GGGGGATTATATCATCAATCTTTGAAGTCTCTCGCTAACAGACTTAAAAATTGAGGTTA TGAGGCATTTTTTGAAATTCATATATCCTTACTATAATAGTGAATCATCAAGTGTGAAT GTAAGTGCAGTAGAAATTATGAAATCTCTTGCCACAGAACCATACAGAAAAATCCGTTTA TCAGCAACAAACATTAATTGCATGGTGAAGGATGTTTTGAGTGTCTGCGACCTGATATCA AAATATAAACATACAGACATAGTTGGGAGGCAAAGGAGTGAATAAGAATGGATTATTTAT GTTACAGAAAAACAGCATGGGGTTTTCTGTAAGAGAAAAATTATCCTGGTATATTTACTAT AGATTGGATTTATAAAAAATAAATTTTCATGTAACTTTTTGATAACAATTGGATGAAACT AGTCGTTCAAGGATTAATAAAGGCAGCTGATGATGGGTCATGAACTAAAGATACAGTCCCT TAAAGGAAGTGTGGTTATTGTTGATAGGAATCCAAAGTTGTTTATATGATTGGTAACTTG GAAGACGGAATACACTTGAGAGAGGACTTTTTTTTTAAATAGGTGATTTGAAATGAAAAG AGATTAGTAATATGAAAGTTGTCCACGTAATGATGTGTAGTAAGTAAAGTACCAAATA AGCATAAAATACTCAGAATCCAAAAAGCTGACTTCTTTTCTGGATGCATCACTCCTGGCA GCCAAATATGACCTGTTACAAGAGGAGATNTTGGTCCAGTTCTTGTGGTTCTGGAGAC AGAAACATTGGATGAAGCCATCCAGATTGTAATAACAACCCATATGAAATGGNACTGC CATCTTACCACCAATGGAGCCACTGCTCGGAAATATGCCCACTTNGTGGATGTNGGACA GGNTCGTGAACAGAAATTTAAGAGATTCTATATCCACTATTNCTAGAGAACAGTAA TATGGGAGTCATGGNTTAGATGCCCN
Restriction Sites:	NotI-NotI
ACCN:	NM_025057
Insert Size:	2500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_025057.1</u> , <u>NP_079333.1</u>
RefSeq Size:	3123 bp
RefSeq ORF:	3123 bp
Locus ID:	80127
UniProt ID:	<u>Q8ND07</u>
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]