

Product datasheet for SC127559

CEP162 (NM_014895) Human Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | CEP162 (NM_014895) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | CEP162 |
| Synonyms: | C6orf84; KIAA1009; QN1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC127559 sequence for NM_014895 edited (data generated by NextGen Sequencing) |

```

ATGGCTAACTGTTCCCAAGAAGAGCTAGATGAAGAGTTTGAACAGTTTATGAAAGAGCTT
TCAGATGATTCTTTGAAAATTCAGACAAAACAGCTAGACAATCTAAAAAAGAGATGAAG
AAGAAAGATACAGTGCCTTGGTGGATAACTGAAGATGATTTTAAAGATGATGGACTTCTT
GGAACAAATGTGAGCTATTTGAAAAAAGAAGACTTCTCAGCCTGTTATGGAAATAGAA
GAGGAGTCTGCTGAAAAGATTCAATTTCTTAAGAGCAGTGAACCTCTCTCTTAAGTACT
GATAGCTTAGAAACAAATGAACTAGTAGTTTCTGAGCTCAACCATAGTAGTCTCGGAGTG
GGATTGGACACATTAGAAGAACAAGAGGAGAAAGAACAATTTTTTCCAGGCTTGAGAAA
GGCTTGACATCTCCATTGATTATTCGAGATTAATAAGGAATTGGATTCTAATGACTCT
ACACATTTTAAAGCTTTACATAGTAATCAAGCCAACGCAGAACTAACTGATGACGAACAT
GAGAATGAATCGAAACATGAAGAAGTGGCAGAAAATTACAGTGATGATTTTGAAGATGAG
TATGTTGGTGACCGTTGACTACTAAAGATGAAGAGATGCCTTCCAAAGAGAATTCAAA
TCAGAAAAAATAAGTGTGCCAAACAGGAAGAAGAAAAAAGTGGCATGCTTGCTAATGTT
GTGCTGCTTGATTCATTAGACTCTGTTGACAGAGTCAATCTTGATGAACAAGATAAAATA
ACACCTAAGCCAAGGTGCCTACCAGAAATGACTGAGAATGAAATGACAGGAACAGGTGTT
TCTTATGGACAAAGCAGTAGTGACGTTGAAGCCCTACATCAAGCTTATTGTCATATAGCC
CATTCAATTGGGAGATGAAGACAAAACAAAAAATTGAGAGTAACACAGTGAAGATATCAAG
AGCTCAGTGAAAGGTCATCCTCAAGAAAATGAAGAGAATTCAAAAACATCTCTACTATG
GAATCTGATCTGCCACAGTAGAGGAGCTGATGAAACCTATCAGAATAGATTCTTTGGG
ATCAGTGGTTTTGATTTACAACCTGTCAGCTCTGAGAAAGTGGCCGAAAGAAAAGAACT
GAATTTTTTAGCTCTTTACCCTGAAGATGAACCCAAATATTTTGTCTCAAGACTCACAA
CATGTGAACCTTTTTTTTACAAAAATGATGAGAATGTGATTTTACAAAAGACCACAAAT
GAGAGTATGAAAAACAGCTGTCCACAAGTAACTGAAGTAACTGCCACAGAAGAACATGTT
GATAAAATGTACCTTAATTTTTGAGGAAAAAATAACTGTTAATTCTTCATCATTATCT
CAGGATGACAAAATTAATAAACTTACAGATCTCAACTAGTTTCTGAAGAAGAAGGGCT
GTAATGGTAAACAGGTACCATAACAAGAAGGCCAGAAGTGCACCTCTTTACTTAAAGG

```



[View online »](#)

AAACCCCAGAGTGGATTATATGCGTCAGTTAGGAGCTCAGGCTATGGCAAACCCAGTTCA
 CCACTCAAGATGTTTTCTACTCTTGAAAAGAAACTTCAGAGGACATTATAAAAAGCAAA
 AACTTGAGATCGATTTCTACCTCCAATCAACCTAGGAAAAAGAAATCTTATCTGGAAACA
 AAATCATCAAGCCTGCAGCTTTGGATAAACAGCTCACAAAAGTAAAGTTGCCTGTCT
 ACTCGTAAGAAGTCTGAAAATCCCACAGAACTGATTCCTGTATTCAAGTTTCAGACTGAT
 TCCTTAGGATACTGTGGTGAGAACAAGGAGAAGAAATTAAGTTGTTTAAAAGAGTTTCAG
 GAAGCAGAGGATAAATGGAGGGGTGCGCAAGCCCTAATTGAGCAAAATTAAGCCACATTC
 TCAGAAAAGGAGAAAAGAACTAGAAAATAAGTTGGAAGAAGTAAAGAAAACACAGGAAAA
 GAACTCTTCAAATGAATCAAGATAATTATATTCTTCAAGCCAAGTTAAGCAGCTTTGAA
 GAAACAAACAAAAACAAAGGTGGTTACATTTTGGAGAAGCAGCTGATCCTGTCACTGGA
 GAAAAGTTGAAGCAAAATCCAAAAAGAAATACAAGAACAAGAGACACTTCTTCAAGGATAT
 CAACAGGAAAAATGAACGATTATATAATCAAGTAAAAGATCTCAAGAACAAAACAAGAAA
 AATGAGGAGCGAATGTTTAAAGAAAACCAAGTTTATTCAAGTGAAGTTTCAGAGCCACAAGA
 GAACAGATGCACAAAAGTCGTTTTCTGTCTCAAGTAGTTGAAGATTTCAGAGCCACAAGA
 AATCAGAAATTTACAGATCTGTTAGCAGAACTACGGATGGCACAGAAAAGAAAAGACAGT
 TTATTGGAAGACATCAAAAAGACTGAAACAAGACAACAAGCTCTTGAAGTAGACTTCGAA
 AAAATGAAGAAAGAGAGGGACCAAGCCAAGATCAGATTGCTTATGTCACAGGTGAGAAA
 TTATATGAAAATAAAAATTTAGAAAGAAACATAAAACAAGAAATCAGTCGTCTGCAAAAA
 AGATTACAGTGGTATGCTGAAAATCAGGAACCTTCTGGATAAAGATGCACTTCGGCTTAGA
 GAAGCAATGAGGAAATGAGAAGCTCAAACTTGAGATTGAGAACTGAAAGCTGAATCT
 GGGAAATCCATCTATTCGGCAGAAGATACGCTTAAAAGATAAAGCAGCAGATGCCAAAAA
 ATTCAGGATCTGGAGCGACAAGTTAAGGAAATGGAAGGGATTCTGAAGAGAAGATATCCC
 AATTCTTTACCTGCTTTAATATTGGCTGCATCAGCAGCTGGTGATACAGTGGATAAAAA
 ACAGTGGAAATTTATGGAGAAAAGGATAAAAAAGCTAGAAGCTGATCTGGAGGGCAAGAT
 GAAGATGCAAAGAAAAGCCTTCGTACCATGGAACAACAGTTTCAGAAAATGAAGATTGAG
 TATGAACAAAGACTAGAGCAGCAGGAGCAGCTACTTGCCTGCAAATGAATCAACATGAC
 TCTCCCAGAAATTAAGCCCTAGAGAAGGAACCTTGATGACATCAAGGAAGCCCATCAGATC
 ACTGTAAGAAACCTTGAAGCCGAAATAGACGTTCTTAAACATCAGAAATGCTGAATTAGAC
 GTCAAGAAAAATGATAAAGATGATGAAGATTTTCAAGTCTATAGAATTCAGGTGGAACAG
 GCTCATGCTAAAGCTAAATTAGTAAGACTCAATGAAGAAGTGGCTGCAAAAAAGAGAGAA
 ATACAAGACCTCTCAAAAAGTGGAGAGGCTTCAGAAAAGACAGAGAATGATGCTATCA
 AATCAGAACTCAAGGGCAGAGAGGAAATGTCTGCCAAAAGGGCAAGAAAGATGTTTTG
 CACTCAAGTAAAGGAAATGCTAACTCCTCCCTGGAACCCCTGGACAGCAAGCTGTACCAA
 CCACATACTTTCACTGATTCCCATGTTTCAGAAGTTTTACAAGAAAAGTACAGATTA AAA
 AATGAGCTAGAAGGATTAATTTTCAAGAGAAGATGAAGTGAAGATGAAATCTGAAGCAGTG
 ATGAATCAATTTGAAAAGTCCATGAGAAGGGTCAAGGAAGATACTGCAGCACACATTGCA
 TCCCTCAAAGCATCTCATCAGAGAGAAAATAGAGAACTCCTTTGCCAAAATGCAGTAGAA
 AATTCTTTCCAAAGTAGCTGAACTAAATCGTAAAATAGCAACTCAAGAGGTACTTATA
 AGACATTTCCAAAGTCAAGTTAATGAGCTGCAGAGTAAACAAGAGTCTCTCGTAGTTTTCT
 GAAGTTCCGAGAAGAAATTTACAGAAAAGNNNTTACAAAAGTCTTGAAGAATTGAGAGAA
 GCCAAAGAAAACCATACACCAGAGATGAAACATTTCTGTTGGCTTAGAAAAGAAAATTAAG
 CAGATGGAATGAGACATGCACAAAGAGAACAGGAACTTCAACAGATAATACAGCAAAACA
 CACCAAGTAGTAGAACTGAGCAAAAACAAAGAGTTGAAAATGGAAAAGACTGGCACAG
 TTAAGAATCGTAGCTGGAGAAGTTCCGCACAGAACTAGACTCAATATTAGATGTTCTC
 CGAGAGCTGCACCGCAAGGAGTGGTTGTGCCAGTTGCTTTTGCAGATGAAATGAATGCA
 CCAGATATTA

Clone variation with respect to NM_014895.2
 3869 a=>n;3870 g=>n;3871 a=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014895 unedited
 GGCGGCCGCAATTCGGCACGAGGCCAATGTTTGAGGTACTTTAGAATGTTTACTTTGGG
 AGGTCAAATTTGACTATGGCTAACTGTTCCCAAGAAGAGCTAGATGAAGAGTTTGAA
 CAGTTTATGAAAGAGCTTTCAGATGATTCTTTTAAAAATTCAGACAAAACAGCTAGACAA
 TCTAAAAAAGAGATGAAGAAGAAAGATACAGTGCCTTGGTGGATAACTGAAGATGATTTT
 AAAGATGATGGACTTCTTGGAACAAATGTGAGCTATTTGAAAAACAAGAAGACTTCTCAG
 CCTGTTATGAAAATAGAAGAGGAGTCTGCTGAAAAGATTCAATTTCTTAAGAGCAGTGGA
 ACCTCTCTCTTAAGTACTGATAGCTTAGAAACAAATGAACTAGTAGTTTCTGAGCTCAAC
 CATAGTAGTCTCGGAGTGGGATTGGACACATTAGAAGAACAAGAGGAGAAAGAACAATTT
 TTTGCCAGGCTTGAGAAAGGCTTGACATCTCCATTGATTATTCGAGATTAATAAGGAA
 TTGGATTCTAATGACTCTACACATTTTAAAGCTTTACATAGTAATCAAGCCAACGCAGAA
 CTAAGTATGACGAACATGAGAATGAATCGAAACATGAAGAACTGGCAGANAATTACAGT
 GATGATTTTGAAGATGAGTATGGNTGGTGCACCGTTGACTACTAAAGATGAAGAGATGCC
 TTCCANAGAGAATCCAATCAGAAAAATAAGTGTGCCCAAACAGGAAGAAGAAAAACT
 GGCATGNCTGCTNATGGNTGNGCTGGCTGATCATTAGACTCTGGTGCAGAGGGTCATCTT
 GATGAACAGATANAATACACCTAGNCCCAGTGGCTACANNATGACTGAGATGAATGACAG
 GAACAGGTGTTTCTATGAACAAGCGTAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014895 unedited
 CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTACATGTATGTTTAT
 TGCAAGCAATTTACAATAGCAAATTCATGGAACCAACCTAAGTATCTACCAACAATTGA
 CTGGATAAAGAAAACGTGAGATATATATAGAGAGAGATATATAAATGGAGTATTATGCAA
 CTATAAAAAAGAAATGAAATCATGTCATTTGCAGCAACATGGATAGAGCTGGAGGCCATTA
 TCCTATGTGAACTAAATCAGACATAAAAAATAAAATATTGCATATATTCTCACTAAAAG
 TAGGAGCTAAACAATGGGTACACAGAGACATAAAGATGGAGATAACAGACACTGGGGACT
 CCAATAGGGGAAAAGAGTGTGAGCGGCAGTAAGCGTTGAAAAATTACCTGTTGGGTACAGT
 GTTTAATATTTGGATGATGGGTACACTAGAAGCCCAATCCCACCATTATTCAATACACC
 CATGTTACAACAAGCACATGTACCCCTGGATCTAAAATAAAAAATTTTAAAAACCTCACA
 TTATCAATAAAAAATGTGGCGGAGTATGTNCCATTNTCCTTTCTTTCTATTCTAGCATAAC
 AAGTGAGCCCTTCTGTCTATAAAGGAACTGTCCATAAATCACTTAAATGAGACTGGGT
 AATGATTTTTAGTAAAATAACAATTATATTGTTTTTTTTCTATTGGGCTAAAGGCAAT
 TTATTTTGAAATGTTGCCTTGCCTGTTTGTCTTCTGGAACATATGGNAACACTTGTTTT
 CATTAGCTGTCTGACAGTGGCACCATCCATCCATCTTAGGCCCTTTATAAGGCCATATGA
 AACCGGATTCTATAATACTTGGGATTCATTATTGCAAAGCACTGGACACCACCTCTGC
 CGGGCACTTTTCGGAACATTTAAATTGACCTATTTTGGGGACTTCCAGTACAATCTTTA
 CTGGGCCGNTTTTCATTTAACTCTTGTTGCCACTTCACCACTGGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_014895

Insert Size:

4840 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:

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_014895.1](#), [NP_055710.1](#)

RefSeq Size: 5051 bp

RefSeq ORF: 3984 bp

Locus ID: 22832

UniProt ID: [Q5TB80](#)

Cytogenetics: 6q14.2-q14.3

Gene Summary: Required to promote assembly of the transition zone in primary cilia. Acts by specifically recognizing and binding the axonemal microtubule. Localizes to the distal ends of centrioles before ciliogenesis and directly binds to axonemal microtubule, thereby promoting and restricting transition zone formation specifically at the cilia base. Required to mediate CEP290 association with microtubules.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). CCDS Note: The exon combination of this CCDS representation lacks full-length human transcript support, but it is supported by partial human transcript alignments and by full-length orthologous transcripts, e.g., mouse BC150998.1 or BC151006.1.