

Product datasheet for **SC338005**

CEP162 (NM_001286206) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP162 (NM_001286206) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEP162
Synonyms:	C6orf84; KIAA1009; QN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286206, the custom clone sequence may differ by one or more nucleotides

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ATGGAATAGAAGAGGAGTCTGCTGAAAAGATTCAATTTCTTAAGAGCAGTGGAACCTCTCTCTTAAGTA
CTGATAGCTTAGAAACAAATGAACTAGTAGTTTCTGAGCTCAACCATAGTAGTCTCGGAGTGGGATTGGA
CACATTAGAAGAACAAGAGGAGAAAGAACAATTTTTGCCAGGCTTGAGAAAGGCTTGACATCTTCCATT
GATTATTCGAGATTAATAAGGAATTGGATTCTAATGACTCTACACATTTAAAGCTTTACATAGTAATC
AAGCCAACGCAGAATACTGATGACGAACATGAGAATGAATCGAAACATGAAGAACTGGCAGAAAATTA
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GAGAATCCAAATCAGAAAAAATAAGTGTGCCAAACAGGAAGAAGAAAAAACTGGCATGCTTGCTAATG
TTGTGCTGCTTGATTCATTAGACTCTGTTGCAGAGGTCAATCTTGATGAACAAGATAAAATAACACCTAA
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GCTTTGGATAAACAGCTCACAAAAGTAAAGTGCCTGTCTACTCGTAAGAAGTCTGAAAATCCCACAG
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ACTTATGTTTAAAAGAGTTCAGGAAGCAGAGGATAAATGGAGGGGTGCGCAAGCCCTAATTGAGCAAAT
 AAAGCCACATTCTCAGAAAAGGAGAAAGAACTAGAAAAAAGTTGGAAGAATAAGAAACAACAGGAAA
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 GTTAATGAGCTGCAGAGTAAACAAGAGTCTCTCGTAGTTTCTGAAGTTCGAGAAGAAATTTACAGAAAG
 AGATTACAAAACCTTAGAAGAATTGAGAGAAGCCAAAGAAAACCATACACCAGAGATGAAACATTTTCGT
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 ATACAGCAAACACACCAAGTAGTAGAACTGAGCAAAAACAAAGAAGTTGAAAAATGGAAAAGACTGGCAC
 AGTTAAAGAATCGTGAGCTGGAGAAGTTCCGCACAGAAGTCAATATTAGATGTTCTCCGAGAGCT
 GCACCGGCAAGGAGTGGTTGTGCCAGTTGCTTTTGCAGATGAAATGAATGCACCAGAGTAT**TAA**

Restriction Sites:

SgfI-MluI

ACCN:

NM_001286206

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_001286206.1](#), [NP_001273135.1](#)

RefSeq Size: 5119 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 (2) lacks an alternate exon but includes a different alternate exon in the 5' region, and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a.