

## Product datasheet for **SC318612**

### 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
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014895, the custom clone sequence may differ by one or more nucleotides

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ATGGCTAACTGTTCCCAAGAAGAGCTAGATGAAGAGTTTGAACAGTTTATGAAAGAGCTT
TCAGATGATTCTTTTAAAATTCAGACAAAACAGCTAGACAATCTAAAAAGAGATGAAG
AAGAAAGATACAGTGCCTTGGTGGATAACTGAAGATGATTTAAAGATGATGGACTTCTT
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GAGGAGTCTGCTGAAAAGATTCAATTTCTTAAGAGCAGTGGAACCTCTCTCTAAGTACT
GATAGCTTAGAAAACAAATGAACTAGTAGTTTCTGAGCTCAACCATAGTAGTCTCGGAGTG
GGATTGGACACATTAGAAGAACAAGAGGAGAAAGAACAATTTTTTCCAGGCTTGAGAAA
GGCTTGACATCTCCATTGATTATTCGAGATTAATAAGGAATTGGATTCTAATGACTCT
ACACATTTTAAAGCTTTACATAGTAATCAAGCCAACGCAGAACTAACTGATGACGAAACAT
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TATGTTGGTGCACCGTTGACTACTAAAGATGAAGAGATGCCTTCCAAAGAGAATTCAAA
TCAGAAAAAATAAGTGTGCCCAAACAGGAAGAAGAAAAACTGGCATGCTTGCTAATGTT
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ACACCTAAGCCAAGGTGCCTACCAGAAATGACTGAGAATGAAATGACAGGAACAGGTGTT
TCTTATGGACAAAGCAGTAGTGACGTTGAAGCCCTACATCAAGCTTATTGTCATATAGCC
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CATGTGAACCTTTTTTTTACAAAAATGATGAGAATGTGATTTTACAAAAGACCACAAAT
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AACTTGAGATCGATTTCTACCTCAATCAACCTAGGAAAAAGAAATCTTATCTGGAAACA
AAACTCATCAAGCCTGCAGCTTTGGATAAACAGCTCACAAAACCTGAAAGTTGCCTGTCT

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ACTCGTAAGAAGTCTGAAAATCCCACAGAACTGATTCCTGTATTCAAGTTTCAGACTGAT  
TCCTTAGGATACTGTGGTGAGAACCAAGGAGAAGAAATTAATTATGTTTAAAAGAGTTCAG  
GAAGCAGAGGATAAATGGAGGGGTGCGCAAGCCCTAATTGAGCAAATTAAGCCACATTC  
TCAGAAAAGGAGAAAAGAACTAGAAAATAAGTTGGAAGAACTAAAGAAAACAACAGGAAAA  
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CACTCAAGTAAAGGAAATGCTAACTCCTCCCTGGAACCTGGACAGCAAGCTGTACCAA  
CCACATACTTTCACTGATTCCCATGTTTTCAGAAGTTTACAAGAAAACACAGATTAATA  
AATGAGCTAGAAGGATTAATTTTCAGAGAAGAATGAACTGAAGATGAAATCTGAAGCAGTG  
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AATTTCTTCCAAAAGTAGCTGAACTAAATCGTAAAATAGCAACTCAAGAGGTACTTATA  
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TTAAAGAATCGTGAGCTGGAGAAGTTCCGCACAGAAGTCAACTCAATATTAGATGTTCTC  
CGAGAGCTGCACCGCAAGGAGTGGTTGTGCCAGTTGCTTTTGCAGATGAAATGAATGCA  
CCAGAGTAT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_014895

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014895.2</a> , <a href="#">NP_055710.2</a>
<b>RefSeq Size:</b>	5155 bp
<b>RefSeq ORF:</b>	4212 bp
<b>Locus ID:</b>	22832
<b>UniProt ID:</b>	<a href="#">Q5TB80</a>
<b>Cytogenetics:</b>	6q14.2-q14.3
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>