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Product datasheet for SC101799

CEP162 (AK093579) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP162 (AK093579) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEP162
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

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Fully Sequenced ORF:

>NCBI ORF sequence for AK093579, the custom clone sequence may differ by one or more nucleotides

ATCCAGAAGCCATTTGAGATGAAGAGAACATTTACTAATACAAATGAAAACCAATCACTTAGGCGGTTTC
CCCCTTTGATGCATAAGAAATCATGATGCGGTCTTTGCTTGTCTCTGTTCTCATCCGGCATTTTTATATT
TGCTAGGCGCAAATAAAGTACGATTCCAATGAATAAATAGAAGTGTTAACACTTCCTTACACTTTTACCT
AAACCAGCTTGGATGAGGAAAGGAAGTGTCTTTAGAAATCTGTTCTGAGAAGTACTTTCACCTGAGGAAG
CTGATAATTGAGATGAGAGTTGTTTTCATAAGCAGTTGAGCGTGCATGGTGGTGAGGTATGAGGAGTGGC
GGTGAGAGTGTGGGTATCGTGCGCGTCAGTGTGAGCAGCAGTGCCCGTTGGTGGGGTGTGAGTGAGCGTG
AGGATGGTGACACGCTCTTGCCTGGCATTGTGCCTCTGTGTCTGGTCAAGGCCACATTTGCCAAGGGAAC
TGGAGCAGACTTTTTCTACATTCTTGCCGGCAGCCCTGGGGGTTTTAAGGCCCACAGGAAAGTACTGTAT
GAGAAATTAGGATCTGTGCTTTTCATTTTTTGTTCTGAGTCTTTGTTTTTATGATATCTTTCAGGTAACC
ATGTGTGCAAGTCAGAATTTCCATTTTCTATCATGGGAAGTTACTTGAAGAATGTTGCTGTTCCTTATTG
TATACTTTAGTGTGCACAGTCTAAAGAAAAAGTGAGCTACTACAAGAACTGGTGGAGACTGAATTACTAG
GGAAGAAAATTGGGATAAAACTGTTGGGCAAAGAAGTAGAAAGGGCAACGGAAGGGGTATTGAAGTGAAG
ATAAACAATTTTTTTTGATAAGTCTGGCTGCATTTGCTTTGCCAACTCCACACTGGGAGAGAAGGGCTCA
CACCGAGCAGCTGCCGTCCAGTGTTGCTGAGCACCGCCCAGCAGTAGCGTGGAGAGTGATCTTGCAGGGT
GTGAGAAGAGGACATGGAGGCTCGTGGAGGCCGCTCTGCAGCCCGCTCTGCCTGGCTCTGGCTCAGGTGT
GCTGTGTGCTCTGTGACCCTCTGCGCCTGCAGGTGCCCTCGGAGCACGTGAGGGGCGGGCGTTGGCTCTT
CAAGGCTCTCCATCTCAATTTGCTTCGAATTAGGGAAGCCATGAGCACATGTGTATAAATGTGTCTTCTG
GAACAGATTGCTGCTGCATTTCTAAGAGCTTTCCAATTTTTTATAGAAATACTTTTGTTTAACTTTTTGA
AGGCTATTTTAGATTCAGAGTTTGTTACGTGGCTGTATTGGGTGATGCTGGGGTTTGGGCTTCTGGGGTA
CCTATTACCCAAATAGGAAACATTGTACCCAATGGGTAGCTTTTCAAAACTCACCCCCATCACCTTCCGC
CTTTTGGAGTCCCCAGGGTCTGTCATTTCCATGGTCATGTCCATGTGTACCCATTGTTTAGCTCCCAAGA
AAAGACTTTTAAAGATAATTTTAAAAACCAAGCTTTGTTTCCTCTGTTTCCAGCTTGGTTCATTCCATAG
CACATCTCATCTTCTGAGTCTTGGTCTCGCGTTTAGCATTCGTGATGGTTTATGTCGTTGGGGTGATGCA
GAAACCAGCCTTTTTTTGATATCGGTATTTAACACGTGCTTGACAGTTGACACCTTACCTGCTCTGTTGG
GACTTGCTTTGCTCACTTTGTTTTTTGCCGTCGTCTTCTGTGCTTGTTTGAAAAGCTGTTTGAAGAGGTA
AGGGGTGGGCCATTCCGTTGTGAACACTCTGAGCTGGTGTGCATGTGGCCCCTGCACAGCAGCCCTGGCC
GAGCTTGGCTGTGCTCCTGGCACTCAGAGTCAGGTAGCTGAGCACTCGCTCCCTTTTCTTCTCCCTGAAA
CTTCAAATATTTTCTTAAAGCAATTATTTTTTACTTATCTGTCATTTAATGACAACCTTAGTTTCCTCCT
CTCTTTCCAGTTAGCTGTGCCAGGGGATAGGTCTGTCCTAGGGAGCAGCTGCCCCCTCCTCTCCTCCTCC
CTCAGGAGCGTGCAGGATGTCTGTGCACACCAGCGCCAGCCTGCCTCCTGGTGACACCTCTCATCACAGG
ACTAACAGGACCCAAATGACACGAGGGGTTTTATTAGAATT

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5' Read Nucleotide Sequence:

>OriGene 5' read for AK093579 unedited
GGGGTTCAAATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGTGTGTGT
GAGGCCATCGCTCAGCATCTGCACGCTGTCTGCTGCGTCTAACGACCCCTCCTCTAGGTT
GGGGATCCTGTCCAGGAGCCCTGCATTTTGTCATCCAGAAGCCATTTGAGATGAAGAGAA
CATTTACTAATACAAATGAAAAACAATCACTTAGGCGGTTTCCCCCTTTGATGCATAAGA
AATCATGATGCGGTCTTTGCTTGTCTCTGTTCTCATCCGGCATTTTTATATTTGCTAGGC
GCAAATAAAGTACGATTCCAATGAATAAATAGAAGTGTTAACACTTCCTTACACTTTTAC
CTAAACCAGCTTGGATGAGGAAAGGAAGTGTCTTTAGAAATCTGTTCTGAGAAGTACTTT
CACCTGAGGAAGCTGATAATTGAGATGAGAGTTGTTTTCATAAGCAGTTGAGCGTGCATG
GTGGTGAGGTATGAGGAGTGGCGGTGAGAGTGTGGGTATCGTGCGCGTCAGTGTGAGCAG
CAGTGCCCGTTGGTGGGGTGTGAGTGAGCGTGAGGATGGTGACACGCTCTTGCCTGGCAT
TGTGCCTCTGTGTCTGGTCAAGGCCACATTTGCCAAGGGAACTGGAGCAGACTTTTTCTA
CATTCTTGCCGGCAGCCCTGGGGGTTTTAAGGCCCACAGGAAAGTACTGTATGAGAAATT
AGGATCTGTGCTTTTCATTTTTTGTTCTGAGTCTTTGTTTTTATGATATCTTTCAGGTAA
TCATGTGTGCAAGTCAGAATTTCCATTTTCTATCATGGGAAGTTACTTGAAGAATGNNTG
CTGTNCTTATTGTATACTTTAGTGTGCACAGTCTAAAAAAAAGTGAGCTACTACAGNAAC
TGGTGGAGACTGAATTACTAGGNNAGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for AK093579 unedited
TCTATTCAGNACGCGGCCGCTTTCTANGATCGGTTTTTTTTTTTTTTTTTAATTCTAAT
AAAACCCCTCGTGTCATTTGGGTGCGGGTAGTCCTGTGATGAGAGGTGTCACCAGGAGGC
AGGCTGGCGCTGGTGTGCACAGACATCCTGCACGCTCCTGAGGGAGGAGGAGAGGAGGGG
GCAGCTGCTCCCTAGGACAGACCTATCCCCTGGCACAGCTAACTGGAAAGAGAGGAGGAA
ACTGAGGGTGTCATTAAATGACAGATAAGTAAAAAATAATTGCTTTAAGAAAATATTTGA
AGTTTCAGGGAGAAGAAAAGGGAGCGAGTGCTCAGCTACCTGACTCTGAGTGCCAGGAGC
ACAGCCAAGCTCGGCCAGGGCTGCTGTGCAGGGGCCACATGCACACCAGCTCAGAGTGTT
CACAACGGAATGGCCCACCCCTTACCTCTTCAAACAGCTTTTCAAACAAGCACAGAAGAC
GACGGCAAAAAACAAAGTGAGCAAAGCAAGTCCCAACAGAGCAGGTAAGGTGTCAACTGT
CAAGCACGTGTTAAATACCGATATCAAAAAAAGGCTGGTTTCTGCATCACCCCAACGACA
TAAACCATCACGAATGCTAAACGCGAGACCAAGACTCAAAAGATGAGATGTGCTATGGAA
TGAACCAGGCTGGANACAGAGGAAACAAAGCCTGGGTTTTTAAATTATCTTTAAAAGTCT
TTTCTTGGGAGCTAAACATGGGTACACTGGACATGACCATGGAATGACAGACCCTGGGGA
CTCAAAGGCANAGGTGATGGGGGTGAGTTTTGAAAAGCTCCCATTGGGTACATGGTTCCT
ATTTGGGTATAAGTACCCCAGAAGCCCAAACCCAGCATCACCAATACAGCCCCGTGACAA
CT

Restriction Sites: NotI-NotI

ACCN: AK093579

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).

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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:	AK093579.1
RefSeq Size:	2141 bp
RefSeq ORF:	2141 bp
Locus ID:	22832
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]

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