

Product datasheet for **SC333156**

CEP164 (NM_001271933) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP164 (NM_001271933) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEP164
Synonyms:	NPHP15
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC333156 representing NM_001271933. Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCTGGACGACCCCTCCGCATAGGAGATCAGCTGGTTCTGGAAGAAGATTATGATGAGACCTACATT
CCTAGTGAGCAAGAAATCTTGAATTTGCCGGGAGATTGGTATTGATCCCATCAAGGAACCAGAAGCTG
ATGTGGCTGGCGGAGAGGGCATCGTGGCCCCACTGCCTGGAGAGTGAAACCATGCCAGGACATCACA
GGTGACATTTACTATTTCAACTTCGCCAACGGGCAGTCTATGTGGGACCATCCATGTGACGAACACTAT
CGGAGCTTGGTGATCCAAGAGCGGGCAAAGCTGTCAACTTCTGGGGCCATTAAGAAGAAGAAAAA
AAGGAAAAGAAAGACAAGAAGGACAGAGACCCCCAAAAGTTCGCTGGCCTTGGGTTCTCATTAGCC
CCAGTTTCATGTTCTCTTGGGGGCTGGCTCCTTACGAGGTCTTGTGGATACCCACCCCTCTGCTCTT
CGTGGATCTCAAAGCGTGAGCCTGGGGAGCTCAGTGGAGTCTGGACGTCAGCTTGGAGAAGCTCATGCTG
CCTTCACAGGGTCTCAAGACCTCTGCTTATACAAAGGGTCTCTTGGGCTCCATATATGAGGACAAGACT
GCTCTCAGCCTCTTGGGTTTAGGAGAAGAAACCAATGAGGAGGATGAGGAGGAAAGTGACAACAGAGT
GTCCACAGCTCAAGTGAGCCTCTTAGGAACCTACACCTGGACATTGGGGCACTGGGGGTGACTTTGAG
TATGAGGAGTCTCTGAGAACAAGCCAGCCAGAGGAGAAGAAGGATGTTTCTCTGGATTGAGATGCTGCC
GGTCCCCCTACTCCCTGCAAGCCCTCCAGCCCAGGTGCAGACAGCAGTCTGAGCAGTGTGTTGGCAA
GGGCGACAGGGAAGTGGAGCAAGACCTGGTCTTCCAGAAAAAGAGGAAATGAGAAGAGTGAACCTAAG
ATTTGCAGGAATCTGGTGACCCCCAAGGCAGACCCTACAGGCAGTGAGCCTGCCAAAGCCTCTGAAAAG
GAAGCACCAGAGGACACAGTAGATGCAGGAGAGGAGGTTCCAGGAGGGAAGAGGCAGCCAAGGAGCCA
AAGAAGAAGGCTTCTGCTCTGGAAGAGGGCAGTTCAGACGCCAGCCAAGAAGTGGAAATAGTGAACAC
ATGAAGGAACACAGCTCTCAGACTCCATAGCTTCTGACCCCAAGTCTTCCATGGCCTGGACTTCGGT
TTTCGACGCCGATCTCGGAGCACCTGCTGGATGTTGATGTGCTTTCCCAAGTCTGGGTGGAGCTTGT
CGGCAGGCCAGCAACCACTGGGAATAGAAGACAAGGATGACAGCCAGTCCAGCCAAGATGAGCTGCAG
AGCAAGCAGTCCAAAGGCCTGGAGGAGAGGTACCATAGGTTATCTCTCACTTCCACACGAGGAGCGG
GCCAGAGTCCCCCTCGCAGCCTGGCCACTGAAGAAGAGCCTCCCAAGGCCCGAGGGGCGAGCCGAG
TGAAGGAGGCAGAGGAGCTTGGGGAGGACTCTGCAGCCAGCCTCAGCCTGCAGCTGTCCCTCCAGAGG
GAGCAGGCCCAAGCCCACCTGTGCTGTGAGAAGGGCAAGGAGCAGCATTCCAGGCCGAGGAGCTG
GGCCCTGGGCAGGAAGAGGCAGAGGATCCTGAGGAGAAGGTGGCGGTGAGCCCCACCCCGCCAGTCTCT
CCAGAGGTGCGATCCACAGAGCCTGTGGCTCCCCAGAGCAGCTCTCAGAGGCTGCACTAAAGGCCATG
GAAGAGGCAGTGGCCCAAGTACTCGAGCAAGACCAGAGGCACCTGCTGGAATCCAAGCAAGAGAAGATG
CAGCAACTGCGGGAGAAGCTGTGCCAAGAGGAGGAAGAGGAGATCCTCCGGCTTCACCAGCAGAAAGAG



[View online »](#)

CAATCTCTCAGTTCCTTGAGGGAGCGGCTGCAGAAAGCCATTGAGGAGGAGGAGGCCGGATGAGAGAG
GAGGAAAGCCAGAGGCTATCCTGGCTCCGAGCTCAGGTCCAGTCCAGCACACAAGCAGATGAGGACCAA
ATCAGGGCTGAGCAAGAGGCTTCCCTGCAGAACTGAGAGAAGAGTTGGAGTCTCAACAGAAGGCTGAG
AGGGCCAGCTTGGAAACAGAAAAATAGGCAATGCTGGAGCAGCTCAAGGAAGAGATAGAGGCTTCGGAG
AAGAGCGAGCAGGCTGCCCTGAATGCTGCAAGGAGAAGGCTCTGCAGCAGCTGAGGGAGCAGCTGGAA
GGGAGAGGAAAGAAGCTGTGGCAACGCTGGAGAAGGAGCACAGTGTGAGCTGGAGCGGCTCTGCTCC
TCATTGGAGGCCAAGCACCGGAGGTGGTCTCCAGCCTCCAGAAGAAGATACAGGAAGCTCAACAGAAA
GAGGAGGCCAGCTGCAGAAAGTGCCTTGGGCAAGTGGAGCACAGAGTTCACCAGAAGTCTTATCACGTG
GCTGGGTATGAGCACGAGCTCAGCAGTCTCCTGCGAGAGAAGCGCCAGGAAGTGAAGGGGAGCATGAG
AGGAGGTTGGACAAGATGAAGGAGGAGCACCAGCAAGTATGGCTAAGGCCAGAGAGCAGTATGAAGCT
GAGGAGAGGAAGCAGCGGGCTGAGCTTCTGGGCACTGACCGGAGAGCTGGAGCGCTGCAGAGGGCC
CATGAACGAGAACTGGAGACTGTGAGGCAGGAGCAACACAAGCGTCTTGAGGACTTGCAGCGCCGGCAC
AGGGAGCAGGAAGGAAGCTCCAGGATTTAGAGTTGGACCTTGAACAGAGCTAAAGATGTCAAGGCC
AGATTGGCTCTGCTGGAGGTCCAGGAGGAGACCGCCGGAGGGAGAAGCAGCAGCTGCTTGTATGTGAG
AGGCAGGTTGCTCTGAAGAGTGAGGAAGCCACAGCCACCATCAGCAGCTGGAGGAGGCACAGAAGGAG
CACACCCACCTGTTGAGTCAAACAGCAGCTCCGAGAAATTCTTATGAGCTGAGGCGCCGCAAGCTG
AAGCTGGAGTCCCAAGTGGATCTGCTGCAGGCTCAGAGCCAGCAACTGCAGAAACACTTCAGCAGCTG
GAGGCTGAAGCTCAAAAGAAGCAGCACCTGTTGAGAGAAGTGACAGTTGAGGAAAATAATGCTTCCCCA
CATTTTGAAGCAGATCTCCATATTGAGGACCTGAGGAAATCCCTTGAACAAACAGACCAAGAGGTG
TCTTCTCTCTCTCCAGAGCAAGGAGGACTTATACTTGGACAGCCTGTCTCCCAATGTCTGGCAC
CTCCTCTCTGCTGAGGGGTAGCCCTCCGAGTGCCAAGGAGTTCCTTGTGCAGCAGACAGCTCCATG
CGGAGGCGGCAGACAGCTCTGAAAGCTGCCAGCAGCATTGGCGCATGAGCTGGCCAGTGCGCAGGAG
GTGGCCAAAGACCCAGGCATCAAGGCCCTGGAAGATATGCGCAAGAACCTGGAGAAGGAGACCAGG
CACCTGGATGAGATGAAGTCGGCCATGCGGAAAGGCCACAACCTGCTGAAGAAGAAAGAGGAGAAGCTG
AATCAGTTGAGTCTCTCTTTGGGAAGAGGCCTCAGATGAGGGCACTCTGGGAGGATCCCCACCAAG
AAGGCAGTAACCTTCGACCTCAGTGACATGGACAGCCTGAGCAGTGAAAGTTCTGAATCTTTTCCCCG
CCTCACCTCGACTCAACCCGAGTCTACCTCCGCAAGATCCACGGGCTTAGCCACTCCCTCCGGCAG
ATCAGCAGCCAGCTGAGCAGTGTCTCAGCATCTGGACAGCCTCAACCTCAGTCGCGCGCCGCGCTC
CTCGCTCCATGCCAGCCAGCTCCCTCCCGGGACCCTAAGAGCACCCCAACCCCACTACTATGGC
TCCCTGGCCAGGTTCTCAGCCTTATCATCTGCTACACCCACGTCCACCAATGGGCTGGGATTAGGG
CAGGGGCCAGGCTCCCCTCTGTGGCTCAAACGGTGGACGACTTCTGTTGGAGAAGTGGCGAAG
TATTTTCCATCTGGCATCCCGCTGCTCAGCAACAGCCCCACCCCGCTGGAGAGCAGGCTGGGTTACATG
TCTGCCAGTGAGCAGCTCCGGCTCTACAGCACTCCCATTCGCAAGTCCCTGAGGCGGGCAGCACCACC
TTTCAGGGCATAATTGAGGCCAACCGGAGGTGGCTGGAACGTGTCAAGAATGACCCAGGTTACCTCTC
TTCTCGTCAACACCCAAAGCCAAAGCTACTTTGAGCCTCTGCAGCTGGGCTTGATGAGCACAACAGA
GTGAAGGTGATCGCTTCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001271933

Insert Size: 4368 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_001271933.1](#)

RefSeq Size: 5550 bp

RefSeq ORF: 4368 bp

Locus ID: 22897

UniProt ID: [Q9UPV0](#)

Cytogenetics: 11q23.3

MW: 163.5 kDa

Gene Summary: This gene encodes a centrosomal protein involved in microtubule organization, DNA damage response, and chromosome segregation. The encoded protein is required for assembly of primary cilia and localizes to mature centrioles. Defects in this gene are a cause of nephronophthisis-related ciliopathies. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]

Transcript Variant: This variant (2) differs in the 5' UTR, uses an alternate in-frame splice site at the 3' end of an exon, and uses an alternate in-frame splice site at the 5' end of an exon compared to variant 1. The resulting isoform (2) contains an alternate internal segment and lacks another alternate internal segment compared to isoform 1.