

## Product datasheet for **MC224409**

### Cep162 (NM\_199316) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cep162 (NM\_199316) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cep162  
**Synonyms:** 4922501C03Rik; mKIAA1009  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224409 representing NM\_199316  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTCACTATTTCAAAGTAGACCTTGATGAAGAATTTGAACGGTTTATGAAGGAGCTTTCAGATGATT  
CTTTTGAAAATTTCAAATAAAACACCTAGACAACCTAATGAAGACAACAAAGAAATGAAGAAGAAAGACCC  
AGTGCCTTGGTGGATAGCCGAAGATGATTTTGAAGATGATGGATTGCTTGAACAATGTGAGCTATTTG  
AAGACAAAGAAGACATATCAGCCTGTTATGGACACAGAGGAGGAATCTGCTGAAAAAGTTTCAGTTTCTTA  
AGAGCAGTGGAACCTCCATCTTAAGTGTGACAGCTTAGAAGCTAATGAATTGGTTGTTCTGAGCCCCA  
TCATAGCACTCTTGGTTTGGGCTTGACACGTTAGAAGAACAAGAGGAGAAAGAGCAGTTCTTGGCCAGG  
CTTGAGAAAGGCTTGACGTCTTCTATTGATTATTCGAAATTAATCAAGAAGCTAGATTCTGACGACTCTG  
CACAATTGAAAGCTTTACATAGATATCCACGTAATACAGAGCCAGCTGAAGATGGATGTGAGAATGAATC  
AGAACAAGAGGAACTGCCAGAAACGTACAGTGATGATTTTGAAGATGCTGAGGATGCTGATGATCCTTTG  
ATTACTAAAGATGAAGAGACCCATCCCAAAGAAAACCTGAGTCAGGAAAAGACAGCTTTCCCAAACAGG  
AGGAAGAGAAAACCTGGCATGCTGGCTAATGTTGTGCTGCTTGTATTCCTTTGACTCTGTTGAAGATGTTGG  
CCTTAGCAGTCAAGAGAAAGCAACCCCTAAAGCAAAGGCCCTCCAGAAATAACAGACGACGAGCAGCAGCA  
GAAACAGGTGTTCCCTTATGGACAAGCAGTGGTGACACTGAAGCCCTGCACCAAGCTTACTGTCATGTAG  
CTCATTCTCTGGGAGACACAGGCGAACCAAGAATTGAGGCTAGCACTGTGCAAACTGTCAGGAGCTCCAT  
AAAAGATGGTCTTCAAGAAAACGAAGAGTCTTCAAGAACGTCTCTACCACCGAGTCCGATTTGCCACAC  
GTGGAGGAGCTGATGCAGCCTATCAGGATCGATTCTATGGGATCAGGGCCTTTGACTTGCAGCCTATCA  
GCCTTAAGAAAGCAACGGACAGTAAAGAAGCTGAATCTGTAGGCTCTTACCCTGAAGACAAACACAAA  
CACTGTGTCTCAAGACACTAGACATGCGATCCAATTTCCCAACAAACACGATGAGAGTGTGGTTCTACAC  
AGGACAGCAGATGAGGGCATGGGCAGCAGCTGTCCAGCTACAGAGGAGCATTGGACAAAATGTATCTGG  
AGATTTTGAAGAAGAAAACATCAGTTAACCCCTCACTATTACCTCAGGATGACAAAATGAACCAGACTTC  
CAGGTCCAGCTCGGGGCTGGGGAAGAGGTGCCTGTCATTGGTAAACAGGTTCCATGTAAGAAGGCCAGA  
AGCACACCTTCTTTGCTAAGAGAAAGCCACAGAGTGGACTGTACGCATCAGCTCGGAGCTCAGGCTACG



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GCAAACCCAGTTCACCACTCCAGTTATTTTCAGCCCTTGAAAAGAAAACCTCAAAGGATAATACAAAAAC  
TAAAGTGTGAGATCCATTCCCACCTCAAATCAATTTAGAAAAAGAGAAATACTATCTGGAACAAAACCTC  
ATCAAGCCTGCAGCTTCGAATAAACCATCCCCTCACCGTGAAGGTAGCCCAGCTACACCCAAGAGACCTG  
AAGACCCCTCAGATGATTCCTTTGTTACAGTACAGACTGAGCCTTTGGGATCCTACGGTGGGAACAGAGA  
GAAAGATTACTAATGTTGAAAAGAGCTCAGGATGCGGAGGAAAAATGGACGGGTGCACAAGCACTGATG  
GAGCAAATGAAAATGACATTCTGTGAGAAGGAGAAGGAAGTGGAGAACACAGTGGAAAGCCTCAAGAGGC  
AACAGGAGAGAGACTCTTCAGACTGAACCAAGAGAACTACATTCTCCAGGCCAAGTTAAGTAGCTTTGA  
AGAAACAAGCAGAAAACAGAGGTGGCTACAATTTGGAGAAAACATCTGACCCCTCACTGGAGAGAAACTG  
AAACAAATTCAAAAGAGATACAAGAGCAAGAGACACTTCTTCAAGGCTACCAGCAGGAAAAATGAAAGGT  
TGTATAATCAAGTAAAAGATCTTCAGGAACAAAAAAGAAAAATGAAGAGCGAATGTTTAAAGAAAAATCA  
GAATTTATTTAGTGAGTTGGCTCTTTAAAAGAACAGATGCACAAAAATCATTCTGTCTCAAGCAGTT  
GAAAATACAGAACCACAAAAAACAGAGTTTTACAGATCTTCTAGCAGAATTACGGGCGGCACAGAAAAG  
AAAAAACCCACTCATGGAAGACATCAAAAGACTGAAGCAAGACAACAAGCTCTGGAGGTAGACTTGGAA  
AAAAGTTAAGAGAGAGAGGGACCAAGCCAAAGATCAAATCGCCTATGCCACAGGTGAAAAATATATGAA  
ATAAAGATTTTAGAAGAAACACATAAACAGAAGTGAAGTGTCTACAAAAGCGACTACAGTGGTACGCTG  
AAAACCAGGAGCTTCTGGATAGAGACGAGCTCGCCTCCGAGAGGCCAATGAAGAGACTGAGAAGCTGAG  
ATTAGAGATTGAAAAACTGAAAACCTGAGTCTGGGAGCCAGCTACTCAGCAGAGGCTGCGCTCAAAGGAA  
AGAGCTCTTGATGCCAAAAGAAATCAGGATCTGGAGCGGCAGGTTAAAGAAATGGAAGGGATTCTGAAGA  
GAAGGTATCCCAACTCTTTGCCTGCTTTGATACTGGCTGCCTCGGCAGCTGGTGATTTCGGTAGATAGAAA  
TACAGTGGAGTTTATGGAGAGAAGAATAAAAAAGCTAGAAGCTGATCTGGAGGGCAAAGATGAAGAAGCC  
AAGAAAAGCCTTCGCACCATGGAACAGCAGTTTCAGAAAATGAAGATTCAGTACGAACAGCGGCTAGAGG  
AGCAGGAACAGCTGCTTGCCACAGGCAGAAGGAAGCTCCGCAGAGCCAGCGTAACAGCTCATCCAGGCT  
GAAGGCCCTTGAGACAGAACTTGGGGACATAAAGGAAGCCCATCAGATCACTGTAAAGAAAGCTGGAAGCT  
GAAATAGATGTTCTCAAACATCAAAAATGCTGACTTAGAACACAAGAAGAATGACAAAGGAGATCAGGGCC  
TCCAGTCCATAGAGTTCCAGGTGGAGCAGGCGCAGGCCAGGGCAAACCTGGCGAGACTCAATGAAGAGCT  
GGCAGCGAAGGGGAGAGAGATACAAGACCTTACAAGACCGTGGAGAGGCTCCAGAAGGAGAGAAGGATG  
ATGCTGTCGAGGCAGATCCCAGGAGCAGAGAGGAGACGGCTGCCAAAAGGCTGAAGAAAGACCCAAACA  
GAGGACATGGGAATGCTTCCCTGAAACCCTGGATGGCAAAGTATCACCCACACACCTTTACTGACTC  
TCATATTTTCGGAGGTCTTAGAAGAAAACACAGATTGAGAAGTGAGCTGGAGGGCTTAATTTTAGAGAGA  
AGTAAGCTGAAGATGGAATCTGAGGCAGCAGTATGCCAACTTGAACCTCATGAAAAGGGTCAAGGACG  
ACGCTGCAGCGCACATTCGCTCCCTCAAAGCATCTCATGAGAGGGAATAGAGAACTCCTTTGCCAAA  
TGCAATAGAAAACCTCTTCCAAAGTAGCTGAATCGAAAATCGCAACTCAAGAGGTACTTCTA  
AAACATTTCCAAGGTCAAGTTAATGAGCTGCAGGGTAAACAGGAATCCCTTGCAGTTTCTCAAGTTCGAG  
AAGAAATCCTACAGAAACAGATTACAAAACCTTGGAAAGAATTGAAAGAAGCCAAAGAAAACCCACACACC  
AGAGATGAAGCATTTTATGGGCTTAGAAAGGAAGATCAAGCAGATGGAGATGAGGCATAGGCAGAGAGAG  
CAGGAGCTCCAACAGATAATACAGCAAACACGCCAAGTAGTAGAAACAGAGCAAAAACAAGGAAGTTGAGA  
AATGGAAGAAAGACTTGCACAGTTAAAGAAATCGGGAGCTGGACAAGTTCCGCACAGAGCTGGACTCCACT  
GGACGTTCTGAGGGAGCTGCACCGACAAGGGTTGTGGTCCCCATGGCTCTCGCAGGCGAAGAGAACACA  
GCAGAGTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM\_199316

Insert Size:

4212 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).

<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>	<u><a href="#">NM_199316.2</a></u> , <u><a href="#">NP_955020.2</a></u>
<b>RefSeq Size:</b>	5295 bp
<b>RefSeq ORF:</b>	4212 bp
<b>Locus ID:</b>	382090
<b>UniProt ID:</b>	<u><a href="#">Q6ZQ06</a></u>
<b>Cytogenetics:</b>	9 E3.1
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]