OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR225968

Cep162 (NM_199316) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep162 (NM_199316) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cep162
Synonyms:	4922501C03Rik; mKIAA1009
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225968 representing NM_199316
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCACTATTTCAAAGTAGACCTTGATGAAGAATTTGAACGGTTTATGAAGGAGCTTTCAGATGATT
CTTTTGAAAATTCAAATAAAACACCTAGACAACCTAATGAAGACAACAAAGAAATGAAGAAGAAAGACCC
AGTGCCTTGGTGGATAGCCGAAGATGATTTTGAAGATGATGGATTGCTTGGAACAAATGTGAGCTATTTG
AAGACAAAGAAGACATATCAGCCTGTTATGGACACAGAGGAGGAATCTGCTGAAAAAGTTCAGTTTCTTA
AGAGCAGTGGAACCTCCATCTTAAGTGTTGACAGCTTAGAAGCTAATGAATTGGTTGTTTCTGAGCCCCA
TCATAGCACTCTTGGTTTGGGCTTGGACACGTTAGAAGAACAAGAGGAGAAAGAGCAGTTCTTTGCCAGG
CTTGAGAAAGGCTTGACGTCTTCTATTGATTATTCGAAATTAAATCAAGAACTAGATTCTGACGACTCTG
CACAATTGAAAGCTTTACATAGATATCCACGTAATACAGAGCCAGCTGAAGATGGATGTGAGAATGAATC
AGAACAAGAGGAACTGCCAGAAACGTACAGTGATGATTTTGAAGATGCTGAGGATGCTGATGATCCTTTG
ATTACTAAAGATGAAGAGACCCATCCCAAAGAAAACTCTGAGTCAGGAAAAGACAGCTTTCCCAAACAGG
AGGAAGAGAAAACTGGCATGCTGGCTAATGTTGTGCTGCTTGATTCCTTTGACTCTGTTGAAGATGTTGG
CCTTAGCAGTCAAGAGAAAGCAACCCCTAAAGCAAAGGCCCCTCCAGAAATAACAGACGACGGACCAGCA
GAAACAGGTGTTCCTTATGGACAAAGCAGTGGTGACACTGAAGCCCTGCACCAAGCTTACTGTCATGTAG
CTCATTCTCTGGGAGACACAGGCGAACCAAGAATTGAGGCTAGCACTGTGCAAACTGTCAGGAGCTCCAT
AAAAGATGGTCTTCAAGAAAACGAAGAGTCTTCAAAGAACGTCTCTACCACCGAGTCCGATTTGCCCACA
GTGGAGGAGCTGATGCAGCCTATCAGGATCGATTCCTATGGGATCAGGGCCTTTGACTTGCAGCCTATCA
GCCTTAAGAAAGCAACGGACAGTAAAGAAGCTGAATCTGTAGGCTCTTTACCCCTGAAGACAAACACAAA
CACTGTGTCTCAAGACACTAGACATGCGATCCAATTTCCCCACAAACACGATGAGAGTGTGGTTCTACAC
AGGACAGCAGATGAGGGCATGGGCAGCAGCTGTCCAGCTACAGAGGAGCATTTGGACAAAATGTATCTGG
AGATTTTGAAGAAGAAAACATCAGTTAACCCCTCACTATTACCTCAGGATGACAAAATGAACCAGACTTC
CAGGTCCCAGCTCGGGGCTGGGGAAGAGGTGCCTGTCATTGGTAAACAGGTTCCATGTAAGAAGGCCAGA

View online »

AGCACACCTTCTTTGCCTAAGAGAAAGCCACAGAGTGGACTGTACGCATCAGCTCGGAGCTCAGGCTACG
GCAAACCCAGTTCACCACTCCAGTTATTTTCAGCCCTTGAAAAGAAAACTTCAAAGGATAATACAAAAAC
TAAAAGTGTGAGATCCATTCCCACCTCAAATCAATTTAGAAAAAGAGAAATACTATCTGGAACAAAACTC
ATCAAGCCTGCAGCTTCGAATAAACCATCCCCTCACCGTGAAGGTAGCCCAGCTACACCCAAGAGACCTG
AAGACCCCTCAGATGATTCCTTTGTTCAGTTACAGACTGAGCCTTTGGGATCCTACGGTGGGAACAGAGA
GAAAGAGTTACTAATGTTGAAAAGAGCTCAGGATGCGGAGGAAAAATGGACGGGTGCACAAGCACTGATG
GAGCAAATGAAAATGACATTCTGTGAGAAGGAGAAGGAACTGGAGAACACAGTGGAAAGCCTCAAGAGGC
AACAGGAGAGAGAGCTCTTCAGACTGAACCAAGAGAACTACATTCTCCAGGCCAAGTTAAGTAGCTTTGA
AGAAACAAGCAGAAAACAGAGGTGGCTACAATTTGGAGAAACATCTGACCCCCTCACTGGAGAGAAACTG
AAACAAATTCAAAAAGAGATACAAGAGCAAGAGACACTTCTTCAAGGCTACCAGCAGGAAAATGAAAGGT
TGTATAATCAAGTAAAAGATCTTCAGGAACAAAATAAGAAAAATGAAGAGCGAATGTTTAAAGAAAATCA
GAATTTATTTAGTGAGTTGGCCTCTTTAAAAGAACAGATGCACAAAAATCATTTTCTGTCTCAAGCAGTT
GAAAATACAGAACCCACAAAAAACCAGAGTTTTACAGATCTTCTAGCAGAATTACGGGCGGCACAGAAAG
AAAAAAACCACCTCATGGAAGACATCAAAAGACTGAAGCAAGACAAACAAGCTCTGGAGGTAGACTTGGA
AAAAGTTAAGAGAGAGAGGGACCAAGCCAAAGATCAAATCGCCTATGCCACAGGTGAAAAATTATATGAA
ATAAAGATTTTAGAAGAAACACATAAACAAGAAGTGAGTCGTCTACAAAAGCGACTACAGTGGTACGCTG
AAAACCAGGAGCTTCTGGATAGAGACGCAGCTCGCCTCCGAGAGGCCAATGAAGAGACTGAGAAGCTGAG
ATTAGAGATTGAAAAACTGAAAACTGAGTCTGGGAGCCCAGCTACTCAGCAGAGGCTGCGCTCAAAGGAA
AGAGCTCTTGATGCCAAAAGAATTCAGGATCTGGAGCGGCAGGTTAAAGAAATGGAAGGGATTCTGAAGA
GAAGGTATCCCAACTCTTTGCCTGCTTTGATACTGGCTGCCTCGGCAGCTGGTGATTCGGTAGATAGAAA
TACAGTGGAGTTTATGGAGAGAAGAATAAAAAAGCTAGAAGCTGATCTGGAGGGCAAAGATGAAGAAGCC
AAGAAAAGCCTTCGCACCATGGAACAGCAGTTTCAGAAAATGAAGATTCAGTACGAACAGCGGCTAGAGG
AGCAGGAACAGCTGCTTGCCCACAGGCAGAAGGAAGCTCCGCAGAGCCAGCGTAACAGCTCATCCAGGCT
GAAGGCCCTTGAGACAGAACTTGGGGACATAAAGGAAGCCCATCAGATCACTGTAAGAAAGCTGGAAGCT
GAAATAGATGTTCTCAAACATCAAAATGCTGACTTAGAACACAAGAAGAATGACAAAGGAGATCAGGGCC
TCCAGTCCATAGAGTTCCAGGTGGAGCAGGCGCAGGCCAGGGCAAAACTGGCGAGACTCAATGAAGAGCT
GGCAGCGAAGGGGAGAGAGATACAAGACCTTACAAAGACCGTGGAGAGGCTCCAGAAGGAGAGAAGGATG
ATGCTGTCGAGGCAGATCCCCAGGAGCAGAGAGGAGACGGCTGCCAAAAGGCTGAAGAAAGACCCAAACA
GAGGACATGGGAATGCTTTCCCTGAAACCCTGGATGGCAAACTGTATCACCCACACACCTTTACTGACTC
TCATATTTCGGAGGTCTTAGAAGAAAACTACAGATTGAGAAGTGAGCTGGAGGGCTTAATTTTAGAGAGA
AGTAAGCTGAAGATGGAATCTGAGGCAGCAGTATGCCAACTTGAAAACTCCATGAAAAGGGTCAAGGACG
ACGCTGCAGCGCACATTGCGTCCCTCAAAGCATCTCATGAGAGGGAAATAGAGAAACTCCTTTGCCAAAA
TGCAATAGAAAACTCCTCTTCCAAAGTAGCTGAACTGAATCGCAAAATCGCAACTCAAGAGGTACTTCTA
AAACATTTCCAAGGTCAAGTTAATGAGCTGCAGGGTAAACAGGAATCCCTTGCAGTTTCTCAAGTTCGAG
AAGAAATCCTACAGAAACAGATTACAAAACTCTTGGAAGAATTGAAAGAAGCCAAAGAAAACCACACACC
AGAGATGAAGCATTTCATGGGCTTAGAAAGGAAGATCAAGCAGATGGAGATGAGGCATAGGCAGAGAGAG
CAGGAGCTCCAACAGATAATACAGCAAACACGCCAAGTAGTAGAAACAGAGCAAAACAAGGAAGTTGAGA
AATGGAAAAGACTTGCACAGTTAAAGAATCGGGAGCTGGACAAGTTCCGCACAGAGCTGGACTCCATACT
GGACGTTCTGAGGGAGCTGCACCGACAAGGGGTTGTGGTCCCCATGGCTCTCGCAGGCGAAGAGAACACA
GCAGAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225968 representing NM_199316
Red=Cloning site Green=Tags(s)

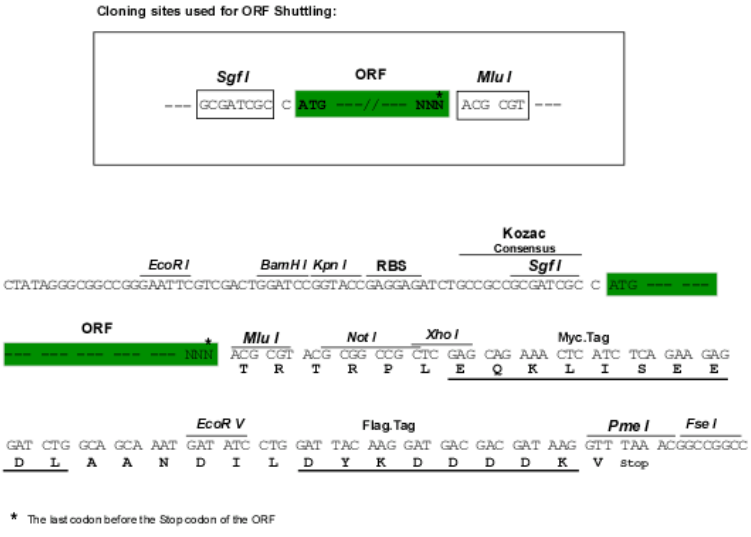
MAHYFKVDLDEEFERFMKELSDDSFENSNKTPRQPNEDNKEMKKKDPVPWWIAEDDFEDDGLLGTNVSYL
KTKKTYQPVMDTEEESAEKVQFLKSSGTSILSVDSLEANELVVSEPHHSTLGLGLDTLEEQEEKEQFFAR
LEKGLTSSIDYSKLNQELDSDDSAQLKALHRYPRNTEPAEDGCENESEQEELPETYSDDFEDAEDADDPL
ITKDEETHPKENSESGKDSFPKQEEEKTGMLANVVLLDSFDSVEDVGLSSQEKATPKAKAPPEITDDGPA
ETGVPYGQSSGDTEALHQAYCHVAHSLGDTGEPRIEASTVQTVRSSIKDGLQENEESSKNVSTTESDLPT
VEELMQPIRIDSYGIRAFDLQPISLKKATDSKEAESVGSLPLKTNTNTVSQDTRHAIQFPHKHDESVVLH
RTADEGMGSSCPATEEHLDKMYLEILKKKTSVNPSLLPQDDKMNQTSRSQLGAGEEVPVIGKQVPCKKAR
STPSLPKRKPQSGLYASARSSGYGKPSSPLQLFSALEKKTSKDNTKTKSVRSIPTSNQFRKREILSGTKL
IKPAASNKPSPHREGSPATPKRPEDPSDDSFVQLQTEPLGSYGGNREKELLMLKRAQDAEEKWTGAQALM
EQMKMTFCEKEKELENTVESLKRQQERELFRLNQENYILQAKLSSFEETSRKQRWLQFGETSDPLTGEKL
KQIQKEIQEQETLLQGYQQENERLYNQVKDLQEQNKKNEERMFKENQNLFSELASLKEQMHKNHFLSQAV
ENTEPTKNQSFTDLLAELRAAQKEKNHLMEDIKRLKQDKQALEVDLEKVKRERDQAKDQIAYATGEKLYE
IKILEETHKQEVSRLQKRLQWYAENQELLDRDAARLREANEETEKLRLEIEKLKTESGSPATQQRLRSKE
RALDAKRIQDLERQVKEMEGILKRRYPNSLPALILAASAAGDSVDRNTVEFMERRIKKLEADLEGKDEEA
KKSLRTMEQQFQKMKIQYEQRLEEQEQLLAHRQKEAPQSQRNSSSRLKALETELGDIKEAHQITVRKLEA
EIDVLKHQNADLEHKKNDKGDQGLQSIEFQVEQAQARAKLARLNEELAAKGREIQDLTKTVERLQKERRM
MLSRQIPRSREETAAKRLKKDPNRGHGNAFPETLDGKLYHPHTFTDSHISEVLEENYRLRSELEGLILER
SKLKMESEAAVCQLENSMKRVKDDAAAHIASLKASHEREIEKLLCQNAIENSSSKVAELNRKIATQEVLL
KHFQGQVNELQGKQESLAVSQVREEILQKQITKLLEELKEAKENHTPEMKHFMGLERKIKQMEMRHRQRE
QELQQIIQQTRQVVETEQNKEVEKWKRLAQLKNRELDKFRTELDSILDVLRELHRQGVVVPMALAGEENT
AEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9104_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

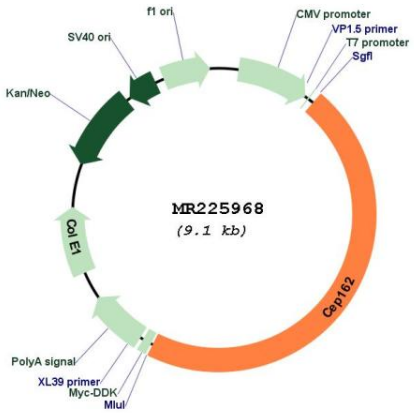


ACCN: NM_199316

ORF Size: 4209 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_199316.2, NP_955020.2
RefSeq Size:	5295 bp
RefSeq ORF:	4212 bp
Locus ID:	382090
UniProt ID:	Q6ZQ06
Cytogenetics:	9 E3.1
MW:	160.9 kDa
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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225968