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Product datasheet for RN217612

Cep162 (NM_001277060) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep162 (NM_001277060) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cep162
Synonyms:	Qn1; RGD1307365
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN217612 representing NM_001277060 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCCACTATTCCAAAGTAGACCTTGATGAAGAATTTGAACGGTTTATGAAGGAGCTTTCAGATGATT CTTTTGAAAATTCAAATGAAACACCTAGCCAGCCTAACAAAGACAGAAAGAAGAAAGACACGGCCCCTTG GTGGATAGCTGAAGATGGTTTTGAAGATGATGGACTGCTTGGGACAAATGTGAGCTATTTGAAGACAAAG AAGACCTATCAACCTATTACGGACATGGAAGAGGAAAATGAAAAAGTCCAGTTTCTTAAGAGCAGTGGAA CCTCCGTCTTAAGTGTTGACAGCTTAGAAGCTAATGAATTGGTTGCTTCTGAGCTCCATCATAGCACTCT AGGTTTGGGCCTGGACACATTAGAAGAACAAGAGGAGAAAGAGCAGTTCTTTGCCAGGCTTGAGAAAGGC TTGACATCTTCTATTGATTATTCAAAATTAAATCAAGAACTGGATTCTGACGACTCTGCACAATTCAGAG TTTTACATAGATATCAAGGTAATGTAGAACCAGCTGAAGGTGGACGTGAGAATGAATCAGAACACAAGGA ACTGCCAGAAACATACAGTGATGATTTTGAAGATGCTGAGGATACTGATGAACCTTTGATTACTAAAGAT GAAGAGACCCGTCCCAAAGAAAACCCTGAGTCAGGAAAAGGCAGCTTTCCCAACCAGGAGGAAGAGAAAA CTGGCATGCTGGCTAATGTGGTGCTGCTTGATTCTTTTGACTCTGTCGAGGATGTTGACCTTAACAATCA TGAGAGACCAACCCCTAAGGCAAAGGCCCTCCCAGAAATGGCAGGCGGTGAACTAGCAGAAACAGGTGTT TCTTATGGACAAAGCAGTGGTGACACAGAAGCCCTGCACCAGGCTTACCATCACGTAGCTCATTCTCTGG GAGATACAGGCGAACCAAGAATTGAGGCTAGCCCTGGGCACAGTGTCAGGAGCTCCGCAAAAGATGGTCT TCAAGAAAATGAGGAGTCTTCAAAGAACATCTCTACCACCGAGTCTGATCTTCCCACAGTAGAGGAGCTG ATGAAGCCTATCAGGATAGATTCCTATGGGATCAGGGGTTTTGACTTGCAGCCTGTCAGCCTTCAGAAAG CAGTGGGCAGTAAAGAAGCAGAGTCTGTGAGCTCTTTACCCCTGACAGTGAACACAAACACCATGTCTCA AGACACTAGGCACGTGAGCCCATTTCCCCACGAGCAGGATGAGAGTGTGGTTCTACACAGGACAGCGGGG GAGGGTGTGGGCAGCAGCTGCCCAGCCACAGAAGAGCATTTGGACAAAATGTACCTGGAGATTCTGAGGA AGAAAACATCTGTTAATCCTTCACTGTTACCTCAGGACAACAAAGCTAACCAGACTTCCAGGTCCCGGCT CAGTGCTAGGGAAGAGGCGCCTGTCACTAGTAAACAGGTTCCATGTAAGAAGGCCAGAAGTGCACCTCCT TTGCCTAGGAGAAAGCCACAGAGTGGGCTGTATGCATCAGCTCGGAGCTCAGGCTACAGCAAACCCAGTT

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001277060

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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001277060.1, NP_001263989.1
RefSeq Size:	5441 bp
RefSeq ORF:	4212 bp
Locus ID:	300880
UniProt ID:	Q4KLH6
Cytogenetics:	8q31
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]