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Product datasheet for SC114838

CEP170 (NM_014812) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP170 (NM_014812) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEP170
Synonyms:	FAM68A; KAB; KIAA0470
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014812, the custom clone sequence may differ by one or more nucleotides

ATGAGCTTAACATCCTGGTTTTTGGTGAGCAGTGGAGGCACTCGCCACAGGCTGCCACGAGAAATGATTT
TTGTTGGAAGAGATGACTGTGAGCTCATGTTGCAGTCTCGTAGTGTGGATAAGCAACACGCTGTCATCAA
CTATGATGCGTCTACGGATGAGCATTTAGTGAAGGATTTGGGCAGCCTCAATGGGACTTTTGTGAATGAT
GTAAGGATTCCGGAACAGACTTATATCACCTTGAAACTTGAAGATAAGCTGAGATTTGGATATGATACAA
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CAACGAAAAACATAAAGATCTAATAAAAGATTGGGCTCTCAGTTCTGCTGCAGCAGTAATGGAAGAAAGA
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GCTAGGGCTCTTCATCCTGCTGCTGTTTCAGCCGCAGCTGAATTTGAGAATGCTGAATCTGAGGCTGATT
TCAGTATACATTTCAATAGATTCAACCCCGATGGGGAAGAGGAAGATGTTACAGTACAAGAATGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014812 unedited
GTCAGCATTTGTATACGACTCCTATAGGGCGGCCGCGATTCGGCACGAGGGCTATGTGTG
GGGCGTGTGTGGAATAACGTTATTGCCCAGCGGAGCTGAGGGCCCCGGAGCTCGACCGCA
GCGGCAGCGACGACAACAGCGGCGACGACGACGACGACGAGGTGGGGGGAGGACGGCGTG
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CTGGTTTTTGGTGAGCAGTGGAGGCACTCGCCACAGGCTGCCACGAGAAATGATTTTTGT
TGGAAGAGATGACTGTGAGCTCATGTTGCAGTCTCGTAGTGTGGATAAGCAACACGCTGT
CATCAACTATGATGCGTCTACGGATGAGCATTTAGTGAAGGATTTGGGCAGCCTCAATGG
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TTCAGAATCAGAATTATCCAAATCTGCAAGTGCCAAAAGCATAGATTCANAGGTAGCAGA
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GGATATTTCTGCTATGCCCCGTGGTACTCCATTATATGGGCAGCCGTCATGGTGGNGGGA
TGATGAGGTGGATGAAANAAGAGCTTTCAGACAAATGGCAAACCCTGAGAAAAAACCATG
AGCTGGNACATCAGGAAATAACATGATGATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014812 unedited
CTATGGCCCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTGGAT
TTAAAGAAAAATAGGAGATCCATTATAGTTTTGTTTTTACATCTCTATAAAGTTTTTTTG
CATCTTTATTAATTGATCCAACAATACAGGATTTAAAAAATCCTGTAAAGTCTTGAAGTG
TATAGAGTTACTTTGTTTCTTAAAACAAATATAGCACAGGATTATTGGGGAAATATTAAA
GACCATTTCATAAAAGTTGCAGTTTAACCTTTATAGACTGATGGGGTCAAGGGGGAAAAT
CCAGGTCTACCAATAATATTTAACTGAATTACGATACACCCCAATTATAGCGCTCTGGAA
ACACAAAGGTAATTACTTTTCCCTTTAAAATCATCCCAATGCGAACCTACCGGAAAGAGA
AAAAACAAGTTTACAGAACACAACCCTCATAGGCTTCCTGTTTCGTACCACAGGCCAAAG
GCCTTTGCCGTCGCTTTGCAGGCCCCTTCCTAATGTGTCAGACAGACAGCATTTACTATT
GAGCCCTACCGGGAAACCCCCCCCCCCCACCCATCGCTTGCGAGTGCAACATTAACTAAT
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TCCCCCTTACTGCGAATACACCTCGCTATCCCGGACCCCTCCCGCCCCCCCCTTACCATA
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CCCCCCCTTAACCTCTCCCCCCTCCAACTCCCCCTTTTAAGGGCGCCACCCCCCCGTCCT
TTACTTCCCTCTCTCCCCCCCCACTCCCCCCCACATGCCTCCCTCTGCCCTATACATGCC
TCCCTCCCTCCCTACTTTCCCTCAAACCCGCCATCCCC

Restriction Sites: NotI-NotI

ACCN: NM_014812

Insert Size: 5820 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_014812.1, NP_055627.1
RefSeq Size:	7204 bp
RefSeq ORF:	4755 bp
Locus ID:	9859
UniProt ID:	Q5SW79
Cytogenetics:	1q43
Domains:	FHA
Gene Summary:	The product of this gene is a component of the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells. During interphase, the encoded protein localizes to the sub-distal appendages of mature centrioles, which are microtubule-based structures thought to help organize centrosomes. During mitosis, the protein associates with spindle microtubules near the centrosomes. The protein interacts with and is phosphorylated by polo-like kinase 1, and functions in maintaining microtubule organization and cell morphology. The human genome contains a putative transcribed pseudogene. Several alternatively spliced transcript variants of this gene have been found, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (alpha, also known as 1) represents the longest transcript and encodes the longest isoform (alpha).