

Product datasheet for **SC316565**

CEP78 (NM_032171) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	CEP78
Synonyms:	C9orf81; CRDHL; IP63
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF:

>SC316565 representing NM_032171.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCGACTCCGTGAAGCTGCGCCGCGACAGCGCGGCGACTTCTTCTCCACTACGAGTACCTGTGC
GCGTGCAGAACTCGGTGCCGTGCCCGCGTGCAGCGCTGTCTCCGGGAGGGCGTGTGGATTTCAAC
GCCGACCGCCTCCGCGGGGTGGACTGGGCGCCTCTGCTGAGCACCTCAAGATCAATAAAGACCTGCCC
TTGGTCTCCATCAAGAGCTTCTCCAGCCCTGGCTGGGGGACACAGGTTCTGACATGAATAAATTTGC
AGAAGTCGTGTTCTGCGATAAGATAACAAGATGTGACCTTCCAGTTGTGTAAAGCTCTTAAGGCTGT
TTAAGTATATCAAGTGTGCTAAAGAACCTGGAGCTAAATGGACTAATCTGAGAGAGAGGGATTTAACT
ATTCTAGCAAAGGATTGAATAAATCGGCTTCTTTGGTGCACCTGTCTCTTGCAAATTGTCCAATTGGA
GATGGAGGTTTAGAAATTTATTTGTCAAGGTATAAAGAGCTCTATCACTCTTAAGACAGTCAACTTCACA
GGATGTAATCTGACATGGCAGGGAGCAGATCACATGGCCAAGATCTTAAGTATCAGACCATGAGAAGG
CATGAAGAACTGGGCTGAGAGTCTTCGCTATAGGAGACCTGATCTTGACTGTATGGCTGGCTTAAGA
CGTATCACACTGAATTGCAACACACTTATTGGTGACCTAGGTGCATGTGCTTTTGCAGACTCTCTCAGT
GAGGATTTATGGCTGAGAGCTCTTGACCTGCAACAGTGCAGGCTCACCAATGAAGGAGCAAAGGCTTTG
CTAGAGGCCCTTGAACCAATACAACCTCTGGTCGTTCTGGATATAAGAAAAATCCACTCATTGATCAT
TCTATGATGAAAGCAGTTATCAAAAAAGTCTCCAGAAATGGAAGGAGTGCCAAATCAGAGTACCAGTGG
ATAACTTCTCCATCAGTGAAGGAACCATCCAAAAGTCTAAACAGAAAAAGGAGAATAAATTCTAGGA
AGTGGTCACAAAGGAAAAGCTACTATTAGAATTGTAGGATTGGCTACAAAGAACTGTAAGTAGTGGC
AGAAAAACACTCCCTTGGTAAAGAATATTATGCGCCCGCACCTCTCCACCTGGTGTGTCTGGTTTCTTG
CCGTGGCGTACTGCAGAACGTGCAAAAAGACACAGGGGTTCCCATTAATCAAAACACGTGATATATGT
AATCAGTTGACGCAACCAAGGTTTCTCTGTGACTGTGACAGTAGAGAGTCCCTCATCCTCTGAAGTTGAA
GAGGTTGATGATTCTTCAGAGAGTGTTCATGAAGTGCCTGAGAAAACTAGTATAGAACAAGAAGCATT
CAGGAAAACTGGAGGAGTGCTAAAGCAGTTAAAGGAAGAAAGAGTGATAAGGCTTAAGGTTGATAAA
CGAGTCAGTGAGCTGGAACATGAAATGCCAGTTAAGAAATATAAATTTCTCTTTGTCTGAAGCCCTT
CATGCACAGTCATTGACAAATATGATCCTGGATGATGAAGGTGTTTTGGGCAGCATTGAGAATTCCTTT
CAGAAGTTTCATGCTTTCTTGATCTCCTTAAAGATGCTGGGCTTGGGCAGCTTGCCACAATGGCTGGG
ATAGATCAGTCAGATTTTCAATTACTAGGTCATCCCCAGATGACTTCTACTGTTAGTAATCCACCTAAA
GAAGAAAGAAAGGCGCTTGAAGATGAAAAACGAGAACGAGCAGAAATGCCCTAGGGCAAATGCAAAAT
ATCCAGTTTCAGAAAAATACAGGTGATGCTAGAATTCCTTTGCCTCTCGACTCCTTTCTGTCCAGTT
TCTACTCCAGAGGCTTAGGAACCTCCAGCAACAACCTAGGAGTCCAGCTACTGAGCAGCGGCAGGAG
TCTTTTGAAGGATTCATTGCTAGAATGTGTTCTCCTTCACCAGATGCGACTTCTGGAAGTGAAGTCAA
AGAAAAAGAGAGGAGTTGTCCAGAAATAGCAGATCTTCTTCAGAGAAAAAGACCAAAACAGGTGAATAT
ACCAAAAAACACTCTGATAAGCAACACCTGGAAGGACCTGCATTCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-MluI

ACCN:

NM_032171

Insert Size:

2121 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:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032171.1
RefSeq Size:	2719 bp
RefSeq ORF:	2121 bp
Locus ID:	84131
UniProt ID:	Q5JTW2
Cytogenetics:	9q21.2
MW:	78.3 kDa
Gene Summary:	This gene encodes a centrosomal protein that is both required for the regulation of centrosome-related events during the cell cycle, and required for ciliogenesis. The encoded protein has an N-terminal leucine-rich repeat (LRR) domain with six consecutive LRR repeats, and a C-terminal coiled-coil domain. It interacts with the N-terminal catalytic domain of polo-like kinase 4 (PLK4) and colocalizes with PLK4 to the distal end of the centriole. Naturally occurring mutations in this gene cause defects in primary cilia that result in retinal degeneration and sensorineural hearing loss which are associated with cone-rod degeneration disease as well as Usher syndrome. Low expression of this gene is associated with poor prognosis of colorectal cancer patients. [provided by RefSeq, Mar 2017] Transcript Variant: This variant (2) lacks an alternate exon in the 3' coding region compared to variant 1. The encoded isoform (b) is shorter than isoform a.