

Product datasheet for **SC324625**

CEP57 (NM_014679) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP57 (NM_014679) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEP57
Synonyms:	MVA2; PIG8; TSP57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014679.3
 GTCCGTTAGGACGTGTTGCCCTTTCTGTGTAAGCTGTGAGCGTAGGCGGCCCTGAGCGGG
 TGTGTTGACAGGGGTTTCCAAGCCAGCACCAGCACCCCTTGCCCTTTTCCATCAGGGGTT
 AGCCTAGGGTCCCCGCTGGTGGGCGGCTCCCGAGTCTTGGAGAAGAGCACGAGAACCTAG
 ACCGCCCCGAAGTGGGAGACCCCTGGGCGAGCTGAAAGATGGCGGCGGCGTCTGTCT
 CTGCGGCTTCTGGTTCTCACTTGTGCAACAGCTTGTGAGCCATCAAGGTCTAATGGAA
 GCATGGTTCGGCATTCTTCATCCATATGTAGTATATCCCTTCGGATAAGCCTTTCCCTTA
 ATAGTGATCTACGACGCTCCCAAGTAAGCCTACACTTGCTATCCAGAAAGCAACAGCA
 GAGCCATATTTTCTGCTCTTAAGAATCTTCAAGATAAGATTTCGACGCTTGGAACTTGAGA
 GGATTCAGGCAGAAAGTGTGAAAACCTTGTCTAGAGAAAACAATTGAATATAAGAAAAG
 TACTGGATGAACAGATACAAGAAAGGGAGAATTCAAAGAATGAGGAATCAAAGCACAAATC
 AAGAACTGACATCTCAGTTGTTAGCTGCAGAAAATAAATGCAATCTATTAGAAAAACAAT
 TGGAAATACATGCGAAATATGATAAAGCATGCCGAAATGGAGAGGACATCTGTCTTAGAGA
 AACAAAGTTCCCTAGAAAGAGAACGACAACATGATCAAACACATGTTTCAGAGCCAACCTG
 AAAAAATTGGATCTTCTTGAACAGGAGTAAACAACTTACCACAATGCAGGCCCTTGCAG
 AAAAAAAAAATGCAAGAGTTGGAAGCAAACTCCATGAAGAAGAACAGGAAAGGAAACGCA
 TGCAAGCTAAGGCAGCTGAGTTGCAGACTGGTCTAGAAAACAATAGACTTATCTTTGAAG
 ATAAGGCAACTCCGTGTGTTCCCAATGCAAGAAGAATAAAAAAAAAGAAGTCAAAACCAC
 CAGAAAAGAAAAGTTCTAGGAACTATTTTGGTGCACAACCACATTATAGATTATGCTTGG
 GTGATATGCCATTTGTAGCTGGGAAGTCCACAAGCCCTAGCCATGCCGTGGTAGCCAATG
 TTCAGCTTGTCTGCATCTAATGAAGCAACACAGTAAAGCTTTGTGCAATGATCGAGTCA
 TCAACAGTATTCCTTTGGCAAAGCAAGTATCTTACGAGGTGGTAAAAGTAAGAAGTTGT
 CAGTAACACCTCCCTCCCAACGGTATTAATGAGGAGTTGTGCAAGTCTTACAGACTT
 TACAGGATGAATTTGGGCAAAATGAGCTTTGATCACCAGCAGCTTGCAAACTTATCCAGG
 AGTCGCCAACCGTTGAACTGAAAGACAAGTTGGAGTGTGAATTGGAGGCATTAGTGGGAA
 GGATGGAAGCAAAAGCCAACCAATAACTAAAGTTCGAAAATACCAAGCCAGCTGGAGA
 AACAGAAGTTAGAGAAGCAGAAGAAGGAATTAAGGCTACCAAAAAGACTCTTGATGAAG
 AAAGAAACAGCAGCAGCCGTTCTGGAATCACAGGGACCACAAATAAGAAAGATTTTATGA
 AACTGAGACCTGGAGAAAAAGGAGAAAAAATCTTCAGTATTGAAGGACATGCAAAGCA
 TACAGAATTCATTACAAAGCAGTAGTTTGTGTTGGGATTACTGACTCATAACCAGGTCAG
 AAATTTTATTCAGATAATCTGTACCTCATCAATCAGATGATGACAATTTACTTCCAGGT
 CTCATACTCACTTATGTTGGAATTAATTAATAGCAGGTGTTAAAGGACCCAGGCTTCATT
 ACACAGGCTTTTCATGTATGCAGGATGACTCAATGTTAAAGCATTAAATGGAAACCAGG
 GGAGTTTTAAAGCCCAGAAACCACACATAATCTTTTGTGAGATGAGTTTGCTGTACTG
 ACGCTGCACTTTGTAACAGATTACCAGTTTTTAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014679

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.

RefSeq: [NM_014679.3](#), [NP_055494.2](#)

RefSeq Size: 3158 bp

RefSeq ORF: 1503 bp

Locus ID: 9702

UniProt ID: [Q86XR8](#)

Cytogenetics: 11q21

Gene Summary: This gene encodes a cytoplasmic protein called Translokin. This protein localizes to the centrosome and has a function in microtubular stabilization. The N-terminal half of this protein is required for its centrosome localization and for its multimerization, and the C-terminal half is required for nucleating, bundling and anchoring microtubules to the centrosomes. This protein specifically interacts with fibroblast growth factor 2 (FGF2), sorting nexin 6, Ran-binding protein M and the kinesins KIF3A and KIF3B, and thus mediates the nuclear translocation and mitogenic activity of the FGF2. It also interacts with cyclin D1 and controls nucleocytoplasmic distribution of the cyclin D1 in quiescent cells. This protein is crucial for maintaining correct chromosomal number during cell division. Mutations in this gene cause mosaic variegated aneuploidy syndrome, a rare autosomal recessive disorder. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Transcript Variant: This variant (1) encodes the longest isoform (a).