

## Product datasheet for **SC114907**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC114907 sequence for NM\_014679 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGCGTCTGTCTCTGCGGCTTCTGGTCTCACTTGTGCGAACAGCTTTGCTGAG
CCATCAAGGTCTAATGGAAGCATGGTTCGGCATTCTTCATCTCCATATGTAGTATATCCT
TCGGATAAGCCTTTCCTTAATAGTGATCTACGACGCTCCCAAGTAAGCCTACACTTGCC
TATCCAGAAAAGCAACAGCAGAGCCATATTTCTGCTCTTAAGAATCTTCAAGATAAGATT
CGACGCTTGGAACTTGAGAGGATTCAGGCAGAAAGTGTGAAAACCTTGTCTAGAGAA
ACAATTGAATATAAGAAAGTACTGGATGAACAGATACAAGAAAGGAGAATTCAAAGAAT
GAGGAATCAAAGCACAATCAAGAACTGACATCTCAGTTGTTAGCTGCAGAAAATAAATGC
AATCTATTAGAAAAACAATTGGAATACATGCGAAATATGATAAAGCATGCCGAAATGGAG
AGGACATCTGTCTTAGAGAAACAAGTTCCCTAGAAAAGAGAACGACAACATGATCAAACA
CATGTTCCAGAGCCAACCTGAAAAATTGGATCTTCTTGAACAGGAGTATAACAACTTACC
ACAATGCAGGCCCTTGCAGAAAAAAAATGCAAGAGTTGGAAGCAAACTCCATGAAGAA
GAACAGGAAAGGAAACGCATGCAAGCTAAGGCAGCTGAGTTGCAGACTGGTCTAGAAACA
AATAGACTTATCTTTGAAGATAAAGGCAACTCCGTGTGCCAATGCAAGAAGAATTA
AAAAAGAAGTCAAACCACCAGAAAAGAAAAGTTCTAGGAACTATTTGGTGCACAACCA
CATTATAGATTATGCTTGGGTGATATGCCATTTGTAGCTGGGAAGTCCACAAGCCCTAGC
CATGCCGTGGTAGCCAATGTTCCAGCTTGTCTTGCATCTAATGAAGCAACACAGTAAAGCT
TTGTGCAATGATCGAGTCATCAACAGTATTCCTTTGGCAAAGCAAGTATCTTCCAGAGGT
GGTAAAAGTAAGAAGTTGTCAGTAAACACCTCCCTCCTCCAACGGTATTAATGAGGAGTTG
TCAGAAGTCTTACAGACTTACAGGATGAATTTGGGCAATGAGCTTTGATCACCAGCAG
CTTGCAAACTTATCCAGGAGTCGCCAACCGTTGAACTGAAAGACAAGTTGGAGTGTGAA
TTGGAGCATTAGTGGGAAGGATGGAAGCAAAAGCCAACCAATAACTAAAGTTGCAAAA
TACCAAGCCCAGCTGGAGAAACAGAAGTTAGAGAAGCAGAAAGAAGGAATTAAGCTTACC
AAAAAGACTCTTGATGAAGAAAGAAACAGCAGCAGCCGTTCTGGAATCACAGGGACCACA
AATAAGAAAGATTTTATGAACTGAGACCTGGAGAAAAAAGGAGAAAAAATCTTCAGTTA
TTGAAGGACATGCAAAGCATAACAGAATTCATTACAAAGCAGTAGTTTGTGTTGGGATTAC
TGA
    
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Clone variation with respect to NM\_014679.4

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_014679 unedited
NGTTGGATTTGTATACGACTCCTATAGGGCGGCCGCGATTCCGGCAGGAGCTGAGGGGGT
GTGTTGCAGGGGTTTCCAAGCCCAGCACCAGCACCCCTTGCCTTTTCTCAGGGGTTTCAG
CCTAGGGTCCCCTGCTGGTGGGCGGCTCCCGAGTCTTGGAGAAGAGCAGAGAACCTAGAC
CGCCCCGAAGTGCAGGAGACCCCTGGGCGGCTGAAAGATGGCGGCGGCGTCTGTCTCT
CGGCTTCTGGTTCTCACTTGTGCAACAGCTTTGCTGAGCCATCAAGGTCTAATGGAAGC
ATGGTTCCGCAATTCTTCATCTCCATATGTAGTATCCTTCCGGATAAGCCTTTCTTAAT
AGTGATCTACGACGCTCCCAAGTAAGCCTACACTTGCCTATCCAGAAAGCAACAGCAGA
GCCATATTTCTGCTCTTAAGAATCTTCAAGATAAGATTCCAGCCTTGGAACTTGAAGG
ATTCAGGCAGAAAGTGTGAAAACCTTGTCTAGAGAAACAATTGAATAAAGAAAGTA
CTGGATGAACAGATACAAGAAAGGAGAATTCAAAGAATGAGGAATCAAAGCACAATCAA
GAACTGACATCTCAGTTGTTAGCTGCAGAAATAAATGCAATCTATTAGAAAAACAATTG
GAATACATGCCAAATATGANTAAGCATGCCGAAATGGAGAGGACATCTGTCTTAGAGAAA
CAAGNTTCCCTTAGAAGAGAAACGACACATGATCAAACACATGTTCCAGAGCCAACCTGAA
AAATTGGATCTTCTGAACAGNAGTATAACAAACTTACCACATGCAGGCCCTTGCAGAA
AAAAAATGCAAGAATGGGAGCAAAAACCTTGAAGAAGCAGGGAAGGAACGCCTGGCA
GCTAGGCAGCA
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014679 unedited CAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTTAAAAGGTGCTTTATTGACTTTAAATTT ATAAAAAGGTTAACATGCTTGATCTAGTTGAAATTATGATTTATATCAACATGATAATTA TGTGTACAGTTTATATCCACTCATACTGTACACCAGTAAAAGCAAATATTCAAAGGGTT CTCTAAGTTTCAAGATTAATAATCCATAATGCCTTGACTGAATATCATGATTACAAAACAG GTATTAAGAAGTGTGAAGGTATATGCTCACAACATATCCCTTCTCCCATTCTCACTTTAT TCCAAAATCTCATTATTTTCACTGACAATTTGTTTATACTTTCAAAAATCCTTTTATAAT TTTTATAGATATAACTCAAAATGACTGCTTGGGTCTTTAAAAAATTAACAGATTA AAAAG CAATACAAGTGCCTTAACTACTGATCAAAGTCTGAAATGCCAAAAAGCAAATAAAAATC CTCTGAAATATATATGATTTTTTAAATATAGAAAACTCCACCAATAGTAGAAACAAAAGT ATGTTTAAATGGTTGCTTTGGAAAGGGGAAGTGGGCACCTCATGCCAGGGAGATTTAAAAA TGAGACTTTTCAAAGCAGCACTGCCTATAGCATAGTCTCATATTTTAAAAATTTAAACCT AATTTTATTATAATAAAGAAGTATTTTAAAAATCCACCCACAGTAAAACTGGTATCTGT TACAAATGCAGCGTCAGACAGCAACTCTCTCAACAAAGATATGTGTGGGTCTTGGGCTTA AACTCCCTGGNTNCATTTAATGCTTACATGAGCATCTGCTACTGAAAGCTGGTATGAGCC TGGCCCTTACACTGTTTTATTATNCACCTAGTGAGTTGAACCTGGAGNAATGGCTTATCG ATGAGAAGACAGATTTTCAATAAATTTGACCGTATGAGAGTATCCACCAACACGTTGAAG AAATGAGCTTGCCTTAAACGAAATTTTTCTTTCCAGCTAGTCAAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014679
<b>Insert Size:</b>	3100 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014679.3</a> , <a href="#">NP_055494.2</a>
<b>RefSeq Size:</b>	3158 bp
<b>RefSeq ORF:</b>	1503 bp
<b>Locus ID:</b>	9702
<b>UniProt ID:</b>	<a href="#">Q86XR8</a>
<b>Cytogenetics:</b>	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).