

Product datasheet for **RC234205**

CEP57 (NM_001243777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP57 (NM_001243777) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEP57
Synonyms:	MVA2; PIG8; TSP57
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234205 representing NM_001243777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCGTCTGTCTCTGCGGCTTCTGGTTCTCACTTGTGCGAACAGCTTTGCTGAGCCATCAAGGT
 CTAATGGAAGCATGGTTTCGGCATTCTTCATCTCCATATGTAGTATATCCTTCGGATAAGCCTTTCCTTAA
 TAGTGATCTACGACGCTCCCAAGTAAGCTACACTTGCCTATCCAGAAAGCAACAGCAGAGCCATATTT
 TCTGCTCTTAAGAATCTTCAAGATAAGATTTCGACGCTTGAACCTGAGAGGATTCAGGCAGAAGAAAGTG
 TGAAAACCTTGTCTAGAGAAACAATTGAATATAAGAAAGTACTGGATGAACAGATACAAGAAAGGGAGAA
 TTCAAAGAATGAGGAATCAAAGCACAATCAAGAACTGACATCTCAGTTGTTAGCTGCAGAAAAATAATGC
 AATCTATTAGAAAAACAATTGGAATACATGCGAAATATGATAAAGCATGCCGAAATGGAGAGGACATCTG
 TCTTAGAGAAACAAGTTTCCCTAGAAAGAGAACGACAACATGATCAAACACATGTTTCAGAGCCAACCTGA
 AAAATTGGATCTTCTTGAACAGGAGTATAACAACTTACCACAATGCAGGCCCTTGCAGAAAAAAAATG
 CAAGAGTTGGAAGCAAACTCCATGAAGAAGAACAGGAAAGGAAACGCATGCAAGCTAAGGCAGCTGAGT
 TGCAGACTGGTCTAGAAACAAATAGACTTATCTTTGAAGATAAGGCAACTCCGTGTGTTCCCAATGCAAG
 AAGAATTAAGAAAAAGAGTCAAAACCACAGAAAAAGTCCACAAGCCCTAGCCATGCCGTGGTAGCCAAT
 GTTCAGCTTGTCTTGCATCTAATGAAGCAACACAGTAAAGCTTTGTGCAATGATCGAGTCATCAACAGTA
 TTCCTTTGGCAAAGCAAGTATCTTCACGAGGTGGTAAAGTAAGAAGTTGTCAGTAACACCTCCCTCCTC
 CAACGGTATTAATGAGGAGTTGTGAGAAGTCTTACAGACTTTACAGGATGAATTTGGGCAATGAGCTTT
 GATCACCAGCAGCTTGCAAACTTATCCAGGAGTCGCCAACCGTTGAACTGAAAGACAAGTTGGAGTGTG
 AATTGGAGGCATTAGTGGGAAGGATGGAAGCAAAAGCCAACCAATAACTAAAGTTGAAAAATACCAAGC
 CCAGCTGGAGAAACAGAAGTTAGAGAAGCAGAAGAAGGAATTAAGAGTACCAAAAAGACTCTTGATGAA
 GAAAGAAACAGCAGCAGCGTTCTGGAATCACAGGGACCACAAATAAGAAAGATTTTATGAACTGAGAC
 CTGGAGAAAAAGGAGAAAAATCTTCAGTTATTGAAGGACATGCAAGCATACAGAATTCATTACAAAG
 CAGTAGTTGTGTTGGGATTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234205 representing NM_001243777
 Red=Cloning site Green=Tags(s)

MAAASVSAASGSHLSNSFAEPSRSNGSMVRHSSSPYVVYPSDKPFLNSDLRRSPSKPTLAYPESNSRAIF
 SALKNLQDKIRRELERIQAEESVKTLRETIEYKKVLDEQIQERENSKNEESKHNQELTSQLLAENKC
 NLLEKQLEYMRNMIKHAEMERTSVLEKQVSLERERQHDQTHVQSLEKLDLLEQYENKLTMMQALAEKMM
 QELEAKLHEEEQERKRMQAKAAELQTGLETNRLIFEDKATPCVPNARRIKKKSKPPEKSTSPSHAVVAN
 VQLVLHLMKQHSKALCNDRVINSIPLAKQVSSRGKSKKLSVTPPSSNGINEELSEVLQTLQDEFQMSF
 DHQQLAKLIQESPTVELKDKLECELEALVGRMEAKANQITKVRKYQAQLEKQKLEKQKLEKATKKTLD
 ERNSSSRSGITGTTNKKDFMKLRPGEKRRKNLQLLKDMQSIQNSLQSSSLCWDY

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001243777

ORF Size: 1422 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001243777.1](#), [NP_001230706.1](#)

RefSeq Size: 3114 bp

RefSeq ORF: 1425 bp

Locus ID: 9702

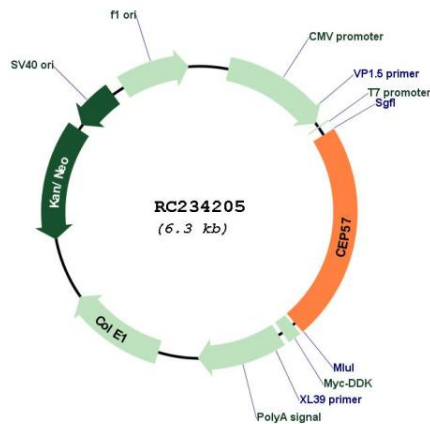
UniProt ID: [Q86XR8](#)

Cytogenetics: 11q21

MW: 54.6 kDa

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]

Product images:



Circular map for RC234205