

Product datasheet for **RR210950**

Cep57 (NM_001108124) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep57 (NM_001108124) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cep57
Synonyms:	3110002I15rik; RGD1309884
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210950 representing NM_001108124
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGCCTCGGTCTCGGCGGCTTCTGATTCTCAGTTTTCGAGCGTCTAGCTGAACCATCAAGGT
 CTAATGGAAATATGGTTCATCATTCTTCATCACCATATGTATTGTATCCACCTGATAAGCCTTTCCTTAA
 CAGCGATCTGAGACGCTCCCAAATAAGCCACGTTTGCCTATCCGAAAAGCAACAGCAGAGCCATATTT
 TCTGCTCTTAAGAATCTTCAAGATAAGATTTCGACGCTGGAAGTGGAAAGAATTCGGGCAGAAGAAAGTG
 TGAACCTTGTCTAGGGAGACAATTGAGTATAAGAAAGTATTGGATGAACAGATACAAGAGAGGGAGAA
 CTCAAAGAATGAAGAATCAAAGCACAATCAAGAAGTGGCATCTCAGTTGGTAGCTGCAGAAAATAAATGT
 AATCTTTAGAAAAACAATTGGAATACATGCGAAATATGATAAAGCATGCAGAAATGGAGAGAACATCTG
 TCTTAGAAAAGCAGGTTTCGCTAGAAAAGAGAACGGCAGCATGATCAAAGCCATGTTTCAGAGCCAGCTGGA
 AAACTGGATCTTCTTGAACAGGAATATAACAGACTCACCGCAATGCAGGCCCTTGCAGAAAAAAAATG
 CAAGAGTTGGAGTCCAACTCCATGAAGAAGAGCAGGAAAGGAAGCGTATGCAGGCTCGGGCAGCGGAGT
 TACAGAGTGGTATAGAAGCGAACAGACTTATATTTGAAGATAGAATACTTCATGTGTTTCAACCAGCAC
 TAGAAAAATAAGAAAAAGAGTCAAAACCACCAGAAAAGAAAGTTTTAGGAACAACCTTGGTGCACAG
 CCACATTACAGATTGTGCTTAGGTGATATGCCTTTTGTGCTGGAACGTCCACCAGTCCCAGCCATGCCG
 TGGTAGCCAATGTTTCAGCACGCTTGCATCTGATGAAGCATCACAGCAGAGCCCTGTGCAATGACCGGGT
 TGTTAACAGTGTGCCCTTGGCAAAGCAAGCTTGTTCACGAGGTAGTAAGAGTAAGAAGTCAGTGGCGCCT
 CCCTCCAGCAGTGTTAACGAAGAAGTTCGATGCTTACAGACGTTACAGGATGAATTTGGGCAATGA
 GCTTTGACCACCAGCAGCTTAACTCATAACAGGAATCACCCAGTGAAGGAGCTGAAGACAACCTGGA
 GTGTGAAGTGGAGGCATTAGTGAGAAGAATGGAAGCGAAGGCCAACCCAGATAACTAAAGTTCGAAAAGTAC
 CAAGCCCAGCTGGAGAAAACAAAGCACAGATAAGCAGAAGGAAGTAAAAGGTAACAAGAAGACTCTTGATG
 AAGAAGGAAAACAGCAGCAGTCGTTTATCTGTAATCACAAGGACCACAAGTAAAGAAGATTTACCAAACA
 GAGACCTGGAGAAAAAGCAGGAAAAATCTTCAGTTACTGAAGGACATGCAAACCTTACAGAATTCATTA
 CAGAGTAGTAATGTGTGTTGGGATTAC

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210950 representing NM_001108124
 Red=Cloning site Green=Tags(s)

MAASVSAASDSQFSSVLAEPSRSNGNMVHSSSPYVLYPPDKPFLNSDLRRSPNKPTFAYPESNSRAIF
 SALKNLQDKIRRELERIRAEESVKTLRETIEYKVLDEQIQERENSKNEESKHNLQELASQLVAAENKC
 NLLLEKQLEYMRNMIKHAEMERTSVLEKQVSLERERQHDQSHVQSLEKLDLLEQYENRLTAMQALAEKMM
 QELESKLHEEEQERKRMQARAELQSGIEANRLIFEDRNTSCVSTSTRKIKKKKSKPPEKKGFRNFGAQ
 PHYRLCLGDMPFVAGTSTSPSHAVVANVQHVLHLMKHHSRALCNDRVVNSVPLAKQACSRGSKSKKSVAP
 PSSSVNEELSDVLQTLQDEFQMSFDHQQLTKLIQE SPSEELKDNLECELEALVRRMEAKANQITKVRKY
 QAQLEKQSTDKQKELKGNKKTLDDEGNSRSSVITRRTT SKKDFTKQRPGEKSRKNLQLLQDMQTLQNSL
 QSSNVCWDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

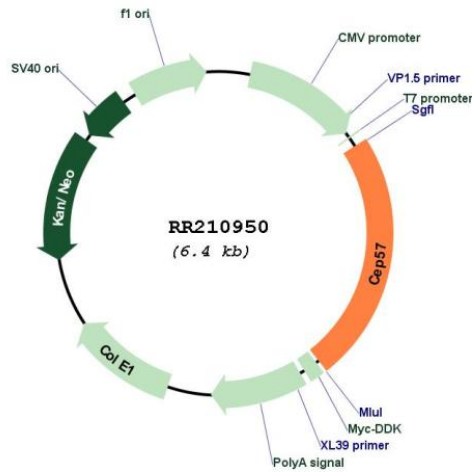
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001108124

ORF Size: 1497 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.

RefSeq: [NM_001108124.3](#), [NP_001101594.2](#)

RefSeq Size: 2519 bp

RefSeq ORF: 1500 bp

Locus ID: 315423

UniProt ID: [B4F7A7](#)

Cytogenetics: 8q12

MW: 57 kDa

Gene Summary: Centrosomal protein which may be required for microtubule attachment to centrosomes. May act by forming ring-like structures around microtubules. Mediates nuclear translocation and mitogenic activity of the internalized growth factor FGF2 (By similarity).[UniProtKB/Swiss-Prot Function]