

## Product datasheet for **MR210523**

### Cep85 (NM\_144527) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cep85 (NM_144527) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cep85
Synonyms:	2410030J07Rik; A1173272; A1173504; Ccdc21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR210523 representing NM\_144527  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCATGCAAGAAAAATACCCAAATGACAGGTCTCATGCTACTTCACCAGTTCCAATGTGATTCAAA  
 AAGGCAGTTCTCTGGAACTGAGTGGCAGACACCAGTTATCTCAGAGACCTTTCGGAGCCGCTTCAGCCG  
 CTGCTCAAGCATTGCTGACAGTGGGACACAGCCATTGGGACATCATGCTCAGACATTGCAGAGGATTTT  
 TGCAGCTCAAGTGGCAGCCCTTCTCCAGCCAATCAAAAGCCACATAACCATTCCAACAGCCCATGTGA  
 TGCCTTCTACTTTGGGGCCTCTCTGCCAAACCAAAATTCGCACCTTCGGGGCCTTCTCCGCTAAGCT  
 GCCCTTGTGAGGATTGACTGAAGCGTGGGGATGACAAGAAATGGAGACTTCGGAGCTGTGAAGCGCTCT  
 CCAGGCCATAGCAAGGGATTTTATGTACCTCCCTAGTGTGCCGGGAGAAATGGGAGTCCAGAGTCTGGT  
 TCCAGCAGTGGCCACGAGAGAGAGGGGAGATGAGGAAGTTCGATGTTCTTAGCATGGAGTCTACCTT  
 TAACCAGCCAGCCATGCTAGAGACGTTAATCTCAGATCCACATTACCGAGCCATTTCCCAACCCAAGA  
 CCTGATACAAATAAGGATGTATACAAAGTATTGCCAGAATCCAAGAAGGCACCGGCAGTGGTGCAGTAT  
 TTGAGAGGAACGGACCACATGCTAGCAGTAGTGGGGTGTCCCTTTGGGACTCCAGCCTGCGCCTGGACT  
 TTCCAAGTCACTATCCTCTCAGGTGTGGCAACCAAGTCTGACCTTGGCATCCTGGAGAACAATCCTGT  
 GAAGTCACTACTGTGCGACAGCAGTTGGAATTGATCCGTTTACAGATGGAGCAATGCAGCTTCAGAACG  
 GAGCCATGTGTACCATCCTGCTGCTTTTCGCTCCATTACTGCCACCCTAGAGCCAGCACAGTGGCTCAG  
 CATCCTGAACAGTAACGAGCATCTCTGAAGGAGAAGGAGCTCCTCATTGACAAGCAAAGGAAGCATATC  
 TCTCAGCTGGAGCAGAAAGTGGCAGAGAGTGAAGTGAAGTCCACAGTGCCTTTTGGCCGCGCTGCC  
 CCTTTGGGGATGTCTGCTTATTGAGGCTACAGGAGTTGCAGCAGAGAGAACAATTTCTACGGGCACAGTT  
 TGCACAGAAGACAGAAGCCCTGAGCAAGGAGAAGATGGAGCTTGAAGAAGAACTCTCTGCATCTGAAGTT  
 GAAATTCAGTCTATTAGGGAGTCTCTAAAAGTGAAGTACAGAAAGCATTTCGGAGGAGGGGAAGAACAGG  
 AGGAAAGGGTCAAAGGTCGTGATAAACATATCAATAATTTGAAAAGAAATGTCAGAAGGAATCAGAGCA  
 GAACCGGGAGAAGCAGCAGCGTATTGAAACCTTGGAGCGCTATCTAGCTGACCTGCCACCCTAGAAGAC  
 CATCAGAAACAGACGGAGCAGCTTAAGGACGCTGAATTAAGAACACAGAAGTGAAGAGAGAGTGGCTG  
 AGCTGGAGACTTTGCTGGAGGACACCCAGGCAACCTGCAGAGAGAAGGAGTTTTCAGCTGGAAAGTCTGAG  
 ACAAGAGAAGCAGACCTCTCCTCTGCTAGACATAGCTTTCAAGATAAACAGTCTGTGGAGGAAGCCAAT  
 GGAGAAAACCTCAGAGTGGACATGGAATCCCAGCAGAAGGAATGTGACTCCCTCCGAAAGATGGTGGAGA  
 GGCAACAGCTGAAGATGGAACAGCTGCACTCCCAAGTCCAGAGCCAAAAGCAAGAAGTGGCACAAGAAGA  
 GGGAAATCAACCAGGCACTGAGAGAGGAGGCCAGCGGAGGGAGACGGCCCTGCAGCAGATGCGCACAGCC  
 GTGAAGGAGCTTTTCAAGTCAAAAACAGGACCTGATTGAGAAGAATCTGACGCTGCAAGAGCACTTGGCC  
 AGGCCAGCCAGGGTCTCATCTTACCAGACTCAGCCAGCTGGCCTGTGAGCTGCACCAGGAAGTGGC  
 CAGTTGCCTTCAAGATCTGCAAGCTGTCTGCAGCATTGTGACCCAGAGGGCCAGGGCCACAATCCTAAC  
 CTCTACTACTCTAGGCATTCACTCCACCCAGCACCCAGGGACGCAGCTAGATCTACAAAAGCCAGATG  
 TGATCAGGAGGAAACTAGAAGAGGTTCAACAGCTGCGCCATGACATTGAGGACTTAAGGACCAGCCTGTC  
 AGACAGATATGCCAGGACATGGGAGAAAACCTGTGCCACACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210523 representing NM\_144527  
Red=Cloning site Green=Tags(s)

MAMQEKYPNDRSHATSPGSNVIQKGSSLGTEWQTPVISETFRSRFSRCSIIADSGDTAIGTSCSDIAEDF  
 CSSSGSPSFQPIKSHITIPTAHVMPSTLGASPAKPNSAPSGPSSAKLPLSGLTEGVGMTRNGDFGAVKRS  
 PGLARDFMYLPSAAGENGSSQSWFPAVGHHEREGEMRKFDPVSMESTLNQPAMLETLYSDPHYRAHFNP  
 PDTNKDVYKVLPESSKAPGSGAVFERNGPHASSSGVLPGLQPAPGLSKSLSSQVWQSPDPWHPGEQSC  
 ELSTCRQLELIRLQMEQMLQNGAMCHHPAAFAPLLPTLEPAQWLSILNSNEHLLKEKELLIDKQRKHI  
 SQLEQKVRESELQVHSALLGRPAPFGDVCLLRQLQRENTFLRAQFAQKTEALSKEKMELEKLSASEV  
 EIQLIRESLKVTLQKHSEEGKKQEERVKGRDKHINLKKKCKEKEQNREKQRIETLERYLADLPTLED  
 HQKQTEQLKDAELKNTLQERVAELETLEDTQATCREKEVQLESRLRQREADLSSARHSFQDKQSVEEAN  
 GENLRVDMESQQKECDSLKRMVERQQLKMEQLHSQVQSQKQELAQEEGINQALREEAQRRETALQMQRTA  
 VKELSVQNQDLIEKNLTLQEHLRQAQPGSSSPDSAQLACELHQELASCLQDLQAVCSIVTQRAQGHNP  
 LLLLLGIHSTQHPGTQLDLQKPDVIRKLEEVQQLRHDIEDLRTSLSDRYAQDMGENCATQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9096\\_a09.zip](https://cdn.origene.com/chromatograms/mm9096_a09.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

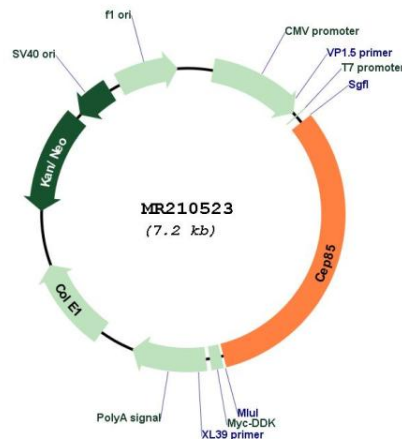
**ACCN:** NM\_144527

**ORF Size:** 2283 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.

<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>	<u>NM_144527.3, NP_653110.3</u>
<b>RefSeq Size:</b>	3878 bp
<b>RefSeq ORF:</b>	2286 bp
<b>Locus ID:</b>	70012
<b>UniProt ID:</b>	<u>Q8BMK0</u>
<b>Cytogenetics:</b>	4 D3
<b>MW:</b>	85.3 kDa
<b>Gene Summary:</b>	Acts as a negative regulator of NEK2 to maintain the centrosome integrity in interphase. Suppresses centrosome disjunction by inhibiting NEK2 kinase activity.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR210523