

Product datasheet for **MG210523**

Cep85 (NM_144527) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep85 (NM_144527) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cep85
Synonyms:	2410030J07Rik; AI173272; AI173504; Ccdc21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG210523 representing NM_144527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGCAAGAAAAATACCCAAATGACAGGTCTCATGCTACTTCACCAGTTCCAATGTGATTCAAA
 AAGGCAGTTCTCTGGAACTGAGTGGCAGACACCAGTTATCTCAGAGACCTTTCGGAGCCGCTTCAGCCG
 CTGCTCAAGCATTGCTGACAGTGGGACACAGCCATTGGGACATCATGCTCAGACATTGCAGAGGATTTT
 TGCAGCTCAAGTGGCAGCCCTTCTCCAGCCAATCAAAAGCCACATAACCATTCCAACAGCCCATGTGA
 TGCCTTCTACTTTGGGGCCTCTCTGCCAAACCAAATTCGCACCTTCGGGCCCTTCTCCGCTAAGCT
 GCCCTTGTGAGGATTGACTGAAGCGTGGGGATGACAAGAAATGGAGACTTCGGAGCTGTGAAGCGCTCT
 CCAGGCCATAGCAAGGGATTTTATGTACCTCCCTAGTGTGCCGGGAGAAATGGGAGTCAGCAGTCTGGT
 TCCAGCAGTGGCCACGAGAGAGAGGGGAGATGAGGAAGTTCGATGTTCTTAGCATGGAGTCTACCTT
 TAACCAGCCAGCCATGCTAGAGACGTTAATCTCAGATCCACATTACCGAGCCATTTCCCAACCCAAGA
 CCTGATACAAATAAGGATGTATACAAAGTATTGCCAGAATCCAAGAAGGCACCGGCCAGTGGTGCAGTAT
 TTGAGAGGAACGGACCACATGCTAGCAGTAGTGGGGTGTCCCTTTGGGACTCCAGCCTGCGCCTGGACT
 TTCCAAGTCACTATCCTCTCAGGTGTGGCAACCAAGTCTGACCTTGGCATCCTGGAGAACAATCCTGT
 GAAGTCACTACTGTGCGACAGCAGTTGGAATTGATCCGTTTACAGATGGAGCAAAATGCAGCTTCAGAACG
 GAGCCATGTGTACCATCCTGCTGCTTTTCGCTCCATTACTGCCACCCTAGAGCCAGCACAGTGGCTCAG
 CATCCTGAACAGTAACGAGCATCTCTGAAGGAGAAGGAGCTCCTCATTGACAAGCAAAGGAAGCATATC
 TCTCAGCTGGAGCAGAAAGTGGCAGAGAGTGAAGTGAAGTCCACAGTGCCTTTTGGCCGCGCTGCC
 CCTTTGGGGATGTCTGCTTATTGAGGCTACAGGAGTTGCAGCGAGAGAACAATTTCTTACGGGCACAGTT
 TGCACAGAAGACAGAAGCCCTGAGCAAGGAGAAGATGGAGCTTGAAGAAGAACTCTCTGCATCTGAAGTT
 GAAATTCAGCTCATTAGGGAGTCTCTAAAAGTGACACTACAGAAGCATTTCGGAGGAGGGGAAGAACAGG
 AGGAAAGGGTCAAAGGTCGTGATAAACATATCAATAATTTGAAAAAGAAATGTCAGAAGGAATCAGAGCA
 GAACCGGGAGAAGCAGCAGCGTATTGAAACCTTGGAGCGCTATCTAGCTGACCTGCCACCCTAGAAGAC
 CATCAGAAACAGACGGAGCAGCTTAAGGACGCTGAATTAAGAACACAGAAGTGAAGAGAGAGTGGCTG
 AGCTGGAGACTTTGCTGGAGGACACCCAGGCAACCTGCAGAGAGAAGGAGGTTTCAGCTGGAAAGTCTGAG
 ACAAGAGAAGCAGACCTCTCTCTGCTAGACATAGCTTTCAAGATAAACAGTCTGTGGAGGAAGCCAAT
 GGAGAAAACCTCAGAGTGGACATGGAATCCCAGCAGAAGGAATGTGACTCCCTCCGAAAGATGGTGGAGA
 GGCAACAGCTGAAGATGGAACAGCTGCACTCCCAAGTCCAGAGCCAAAAGCAAGAAGTGGCACAAGAAGA
 GGGAAATCAACCAGGCACTGAGAGAGGAGGCCAGCGGAGGGAGACGGCCCTGCAGCAGATGCGCACAGCC
 GTGAAGGAGCTTTCAGTGCAAAAACAGGACCTGATTGAGAAGAATCTGACGCTGCAAGAGCACTTGCGCC
 AGGCCAGCCAGGGTCTCATCTTACCAGACTCAGCCAGCTGGCCTGTGAGCTGCACCAGGAAGTGGC
 CAGTTGCCTTCAAGATCTGCAAGCTGTCTGCAGCATTGTGACCCAGAGGGCCAGGGCCACAATCCTAAC
 CTCTCACTACTCTAGGCATTCACTCCACCCAGCACCCAGGGACGCAGCTAGATCTACAAAAGCCAGATG
 TGATCAGGAGGAAACTAGAAGAGGTTCAACAGCTGCGCCATGACATTGAGGACTTAAGGACCAGCCTGTC
 AGACAGATATGCCAGGACATGGGAGAAAACCTGTGCCACACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210523 representing NM_144527
Red=Cloning site Green=Tags(s)

```
MAMQEKYPNDRSHATSPGSNVIQKGSSLGTEWQTPVISETFRSRFSRCSIIADSGDTAIGTSCSDIAEDF
CSSSGSPSFQPIKSHITIPTAHVMPSTLGASPAKPNSAPSGPSSAKLPLSGLTEGVGMTRNGDFGAVKRS
PGLARDFMYLPSAAGENGSSQSWFPAVGHHEREGEMRKFDVPSMESTLNQPAMLETLYSDPHYRAHFPNPR
PDTNKDVYKVLPEKKAAPGSGAVFERNGPHASSSGVLPGLQPAPGLSKSLSSQVWQSPDPWHPGEQSC
ELSTCRQQLELIRLQMEQMLQNGAMCHHPAAFAPLLPTLEPAQWLSILNSNEHLLKEKELLIDKQRKHI
SQLEQKVRESELQVHSALLGRPAPFGDVCLLRQLQELQRENTFLRAQFAQKTEALSKEKMELEKKLASEV
EIQLIRESLKVTLQKHSEEGKKQEERVKGRDKHINLKKKCKQKESEQNREKQQRDIETLERYLADLPTLED
HQQQTEQLKDAELKNTLQERVAELETLEDTQATCREKEVQLESRLRQREADLSSARHSFQDKQSVVEAN
GENLRVDMESQQKECDSLKRMVERQQLKMEQLHSQVQSQKQELAQEEGINQALREEAQRRETALQQMRTA
VKELSVQNQDLIEKNLTLQEHLRQAQPGSSSPDSAQLACELHQELASCLQDLQAVCSIVTQRAQGHNP
L S L L L G I H S T Q H P G T Q L D L Q K P D V I R R K L E E V Q Q L R H D I E D L R T S L S D R Y A Q D M G E N C A T Q
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_144527.3](#), [NP_653110.3](#)

RefSeq Size: 3878 bp

RefSeq ORF: 2286 bp

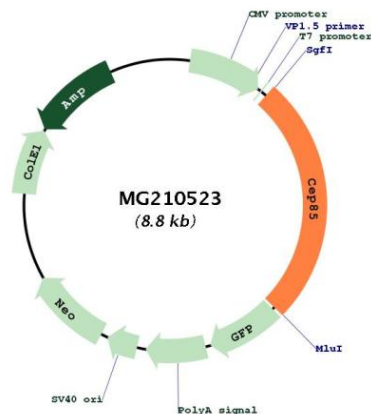
Locus ID: 70012

UniProt ID: [Q8BMK0](#)

Cytogenetics: 4 D3

Gene Summary: 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 MG210523