

Product datasheet for **RC219337**

CCDC46 (CEP112) (NM_001037325) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC46 (CEP112) (NM_001037325) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCDC46
Synonyms:	CCDC46; MACOCO; SPGF44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219337 representing NM_001037325 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGCTTCTCTGAGTTTAGACCATCCATCTGCCAAGGAAAACCAAGCCCTGAGACTGATAGAGATGA
GAGAAGAGAATGGTAATGTCCCAAGACAGAGCAGGCAGGAAGTTTGAAGCCTCTGAGGGATACAGGAAA
ATCTAACCTCAAAGAGAAGAAGGCCAACAGCAAGCTGAAGCAGATTGAGAAGGAATACACTCAGAAGCTT
GCCAAATCTTACAGATCATAGCAGAACTTCAGACAACCATTTCTCTCTGAAAGAAGAGAACAGCCAGC
AGCAGCTTGCTGCAGAAAGCGGCTCCAGGATGTTAGACAAAAGTTTGAAGATGAGAAGAAGCAGCTGAT
TAGAGATAATGACCAAGCAATCAAGTTTTACAAGATGAATTAGAAAACGGTTCTAATCAGGTGCGATGT
GCAGAGAAAAAATTACAACACAAAGAATTGGAGTCACAGGAACAGATAACTTACATACGACAAGAATATG
AAACAAAATTGAAAGGATTGATGCCAGCATCCCTAAGACAAGAATTGAAGACACCATTTCTCCCTAAA
ATCACAGGTTAATTTCTGCAAAAGAGAGCTTCCATCCTTACAGGAAGAACTGACTACATATCAAGGCAGA
AGG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219337 representing NM_001037325
Red=Cloning site Green=Tags(s)

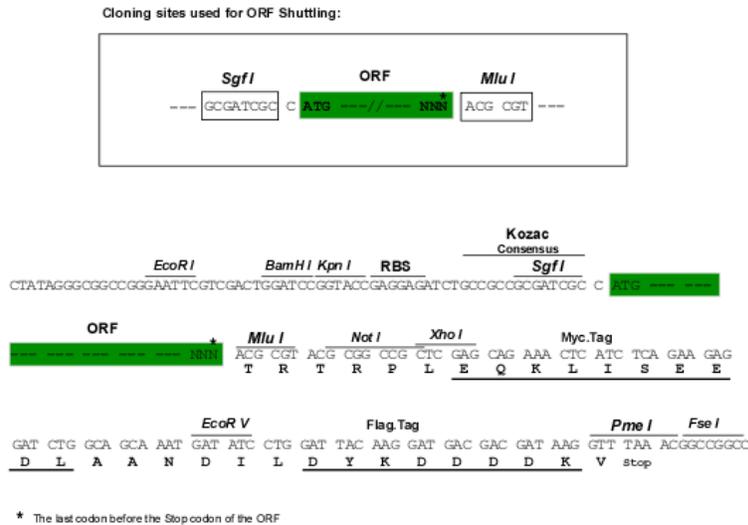
MWASLSLDHPSAKENQALRLIEMREENGVPKTEQAGSLKPLRDTGKSNLKEKKANSKPKQIEKEYTQKL
 AKSSQIIAELQTTISSLKEENSQQQLAERRLDVVRQKFEDEKKQLIRDNDQAIKVLQDELENRSNQVRC
 AEKKLQHKELSESQEQITYIRQEYETKLGKMPASLRQELEDTISSLKSQVNFQKRASILQEELTTYQGR
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1251_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037325

ORF Size: 633 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_001037325.3](#)

RefSeq Size: 1258 bp

RefSeq ORF: 636 bp

Locus ID: 201134

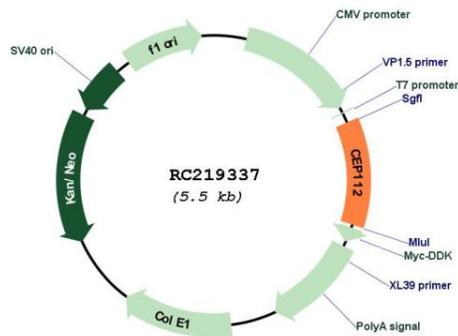
UniProt ID: [Q8N8E3](#)

Cytogenetics: 17q24.1

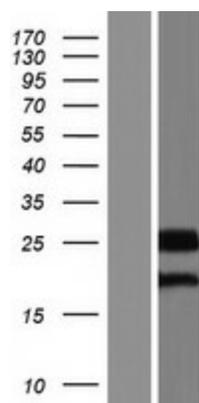
MW: 24.4 kDa

Gene Summary: This gene encodes a coiled-coil domain containing protein that belongs to the cell division control protein 42 effector protein family. In neurons, it localizes to the cytoplasm of dendrites and is also enriched in the nucleus where it interacts with the RNA polymerase III transcriptional repressor Maf1 to regulate gamma-aminobutyric acid A receptor surface expression. In addition, the protein has been identified as a component of the human centrosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

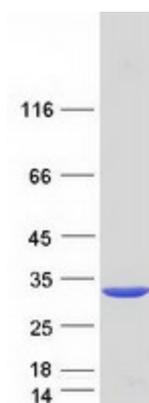
Product images:



Circular map for RC219337



Western blot validation of overexpression lysate (Cat# [LY421947]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219337 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CEP112 protein (Cat# [TP319337]). The protein was produced from HEK293T cells transfected with CEP112 cDNA clone (Cat# RC219337) using MegaTran 2.0 (Cat# [TT210002]).