

## Product datasheet for **RG220081**

### CCDC46 (CEP112) (NM\_145036) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC46 (CEP112) (NM_145036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCDC46
Synonyms:	CCDC46; MACOCO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG220081 representing NM\_145036  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGTGGGAAGTGAAGAAGAAAAATGGGAGAAGCTGGATGCAGAATTTGATCACTTTGTGGTTGATA  
 TGAAGCCCTTTGTTCTAAAATTACCTCATAGGACAGAACGGCAGAGGTGTGCTCTTTGGATTAGAAAGCT  
 GTGCGAACCTTCAGGAACAGGTGCGAATAATGGGGAGGAAGAATCGGAACCTGTATGCAAAATTTGTTA  
 TTGCATATGCTTAAACGAGGTGCGCTTGAAGGCCCTTTTACACACCGACCTGAACCCGGGACACTAAAAA  
 TTCTACCTTCATACATGTCCATCTATTTTGGATGAACCAATCCAGCAGGACAAAAGTTCAAGCCGAGA  
 GGGATTACCAGCCTGGTACTGGGTGAGCTGGAGACAAGTGAACACAAAATTAATGAATCATGGAAACTC  
 TCTTCTGGAGAAGATAACACTTTAGTACAGTCCCACTGATGTCTACAGCAGGGAACAGTACACTGGGA  
 AGCTCCGAGTGAGATCACACTCCTTGAGTCCAACCTCACAGAGAAGATGGACAAAAATTACCCCAAAGAT  
 TTGTGAAGTTTATTCGAAAAATCTCCTGTTTCTTTGGATGATAGTGACATTGAAGCTCGCCTTAATAGT  
 TGGAACTTTGGGATAGAAAAATCCTCGATACCTGAGACAGAAGCCTATCCAGTTTCTCTGATGACACCGA  
 AATTCAGCCTGAGAAAAATCCAGCAGTTTCCATGATGATCAATTTCTCTCTCGAATACGTGAGAAAGAGCT  
 GGACATGAAAAACAAAATGATGGAAGCTAAATTTTCATGAAGAAAAGCTTAAACTGCAACGAAAAATGAT  
 GCTGATGTTTCCAGAAATTTAGAAAAGAAAGAAATGAATAGAAAGAACTGAAAACCTTTATACAGGAGTA  
 AACACATGAAACTGAAGAGACTATTAGAAAGCTTGAAGAAAGTTTCCAGACTGATACGTGACTGTCA  
 AGTTATCAGAGAGACTAAAGAAGACCAGATTGCAGAGCTGAAAAAGATATGTGAACAAAGTACGGAATCT  
 CTAATAATGACTGGGAAAAAAGCTTCAAAATGCTGTAGCAGAAATGGAACAGGAAAAGTTTGTCTTC  
 AAAAGCAACACTGAAAAACATCAAGAATTGCTTGGAGTACAAAATGTGCGTCTGAATAAAATGAGAG  
 TGAATACATGGCGCAACACAGTCCACAACCACATGATCAAAGAACTGGAGGCCCGTGTCCAGCAGCTG  
 ACTGGAGAAGCAGAGAACAGTAATTTACAGAGGCAGAAATTAATTCAGAAAAAGCAGAACTTGAAAGAT  
 GTTACCAGATAACGTGTAGTGAATTACAAGAAGTAAAGGCAAGGCGTAACACACTGCATAAAGAGAAGGA  
 CCATCTTGTAATGATTATGAGCAAAACATGAACTGTTACAACCAAATATGATGCTGATATAAACCTT  
 CTAACAAGAACATGCTCTTTCAGCTTCAAGGCATCTAGTATGATTGAAGAATTAGAGCAGAATGTCT  
 GTCAATTAACACAGCAGTTACAGGAATCAGAACTTCAAAGAAAGCAACAACTAAGGGATCAAGAAAAATA  
 GTTTCAGATGGAGAAAAGTCATTTAAACACATCTATGAAAAAAGGCTCATGACTTGCAGAGTGAACCT  
 GATAAAGGAAAAGAGATACTCAAAGAAAATTCATAAATTTGAGGAAGCTTTGAAGGAAAAGAGGAGC  
 AGCTAACTCGTGTGACTGAAGTTTCAAGAGTTGAGGCCCAGCAGGAGATGCCGCTCTGGAAGAGTTTAA  
 GCGGCAGGTGAACTGAACTCAGAGAAAGTCTATGCTGAAATGAAAGAGCAGATGAAAAAGTGGAGGCA  
 GATCTAACTAGATCCAAATCTCTTCGTGAGAAACAATCAAAGGAGTTTTTATGGCAACTGGAGGACATCA  
 GACAGCGGTATGAACAACAGATAGTAGAGCTGAAGCTGGAGCATGAACAGGAGAAGAGCGCACCTATTACA  
 GCAGCATAACGCAGAGAAGGATAGCCTAGTCCGAGACCATGAACGGGAAATTTGAAAACCTGGAAAAACAG  
 CTTCCGCTGCCAATATGGAGCACGAAAATCAAATTCAGGAGTTCAAGAAACGAGATGCACAGGTTATTG  
 CCGACATGGAGGCCAGGTTCAAAAGTTGAGAGAAGAAATGATCAATGTGAACTCACAGCGGAAACAGCA  
 GCTGGTAGAGCTTGGTCTTCTTCGTGAAGAGGAAAAGCAAAGGGCTACAAGGGAACATGAGATTGTGCT  
 AAATAAACTGAAGGCTGAATCAGAAAAGATGAAAAATAGAGCTGAAAAAGACTCATGCTGCTGAGACAGAGA  
 TGACACTGGAAAAGGCCAACAGCAAGCTGAAGCAGATTGAGAAGGAATCACTCAGAAGCTTGCCAAATC  
 TTCACAGATCATAGCAGAACTTCAGACAACCTTTCTCTCTGAAAGAAGAGAACAGCCAGCAGCAGCTT  
 GCTGCAGAAAGCGGCTCCAGGATGTTAGACAAAAGTTTGAAGATGAGAAGAAGCAGCTGATTAGAGATA  
 ATGACCAAGCAATCAAGGTTTTACAAGATGAATTAGAAAACCGTTCTAATCAGGTGCGATGTGCAGAGAA  
 AAAATTACAACACAAAAGAAATGGAGTACAGGAACAGATAACTTACATACGACAAGAATATGAAACAAAA  
 TTGAAAGGATTGATGCCAGCATCCCTAAGACAAGAACTTGAAGACACCATTTCTCCCTAAAATCACAGG  
 TTAATTTTCTGAAAAGAGAGCTTCCATCTTCAGGAAGAACTGACTACATATCAAGGCAGAAGG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG220081 representing NM\_145036  
 Red=Cloning site Green=Tags(s)

```
MEVGSEEEKWEKLD AEFDFVVDMPFVLKLPHRTERQRCALWIRKLCPEPSGTGAGIMGRKNRNL YAKLL
LHMLKRGALEGPFTHRPEPGLKILPSYMSIYFDEPNPARAKGSSPEGLPAWVLGELETSEHKLNESWKL
SSGEDNTLVQSPTDVYSREQYTGKLRVRSLSLSPHREDGQNI TPKICEVYSKSPVSLDDSDIEARLNS
WNLGIENPRYL RQKPIPVSLMTPKFSLRKSSSFHDDHFLSRIREKELDMKTKMMEAKFHEEKLLKQQKHD
ADVQKILERKNNEIEELKTL YRSKQHEETEETIRKLEKKVQTLIRDCQVIRETKEDQIAELKKICEQSTES
LNNDWEKLLHNAVAEME QEKFDLQKQHTENIQELLEDTNVRLNKMSEYMAQTQSTNHMIKELEARVQQL
TGEAENSNLQRQKLIQEKAELERCYQITCSELQEVKARRNTLHKEKDHLVNDYEQNMKLLQTKYDADINL
LKQEHALSASKASSMIEELEQNVCQKQQLQESELQRKQQLRDQENKFQMEKSHLKHIEKKAHDLQSEL
DKGKEDTQKKIHKFEEALKEKEEQQLTRVTEVQRLQAQQADAAL EEFKQVELNSEKVYAEMKEQMEKVEA
DLTRSKSLREKQSKEFLWQLEDIRQRYEQQIVELKLEHEQEKT HLLQQHNAEKDSLVRDHEREIENLEKQ
LRAANMEHENIQEFKKRDAQVIADMEAQVHKLREELINVNSQRKQQLVELGLLREEEKQ RAREHEIVV
NKLKAESEKMKIELKTHAAETEMTLEKANSK LKQIEKEYTQKLAKSSQIIAELQTTISSLKEENSQQQL
AAERRLQDVRQKFEDEKKQLIRDNDQAIKVLQDELENRSNQVRCAEKKLQHKELESQEQITYIRQEYETK
LKLGLMPASLRQELEDTISLKSQVNF LQKRASILQEELTTYQGRR
```

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

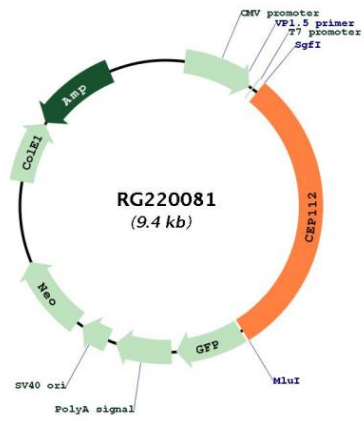


**ACCN:** NM\_145036

**ORF Size:** 2865 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_145036.3</a>
<b>RefSeq Size:</b>	3511 bp
<b>RefSeq ORF:</b>	2868 bp
<b>Locus ID:</b>	201134
<b>Cytogenetics:</b>	17q24.1
<b>Gene Summary:</b>	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 RG220081