

Product datasheet for **RG234321**

CCDC61 (NM_001267723) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC61 (NM_001267723) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCDC61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234321 representing NM_001267723
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGACCAGCCGGCTGGCCTGCAGGTGGACTACGTCTTCCGGGGTGTGGAGCATGCCGTGCGGGTGATGG
 TTTCTGGGCAGGTGCTGGAGCTGGAGGTGGAGGACCGGATGACGGCTGACCAAGTGGCGGGGCGAGTTCGA
 TGCTGGCTTCATTGAAGATTGACTCACAAGACAGGGAACCTCAAACAGTTCAACATCTTCTGTATATG
 CTGGAGTCAGCCCTCACTCAGAGTAGTGAGTCAGTCACCTGGACCTGCTGACCTACACAGACCTGGAGT
 CCCTGCGGAACCGCAAGATGGGGGGCGCCAGGCTCCTTGCCCCCAGGTGCGCCAGCTCAACTCCAA
 GCGCTACCTGATCCTCATCTACTCCGTGGAGTTTGACAGGATCACTACCCGCTGCCCCCTCCGTACCA
 GGCAAGCCAGACCCCGTGGTTCTGCAGGGCATCATCCGGTCACTGAAGGAGGAAGTGGGCCGCTGCAAG
 GGCTGGATGGCCAGAACACTCGGGACACCCGGGAGAATGAGATCTGGCATCTGCGGGAGCAGGTGTGCG
 CCTGGCGTCCGAGAAGCGGGAGCTGGAGGCGCAGCTGGGCCGATCGCGCAGGAGGCGCTGGCCGGGCGC
 GCGGCACGCCAGGAGGCCGAGGCGCTGCGCGGGCTGGTGCAGCGGGCTGGAGCTGGAGCTGCGGCAGGAGC
 GCGGCCTCGGGCACAGGGTGGCCGGCCGTGCGCGCCAGGACTGCCGCGCTCTGGCCAAGGAGCTCGAGGA
 GGCAAGGCATCGGAGCGGAGCCTGCGCGCCCGGCTGAAGACGCTGACCAGCGAGCTGGCATTGTACAAG
 AGGGGGAGGCGGACTCCGCCGTGCAGCCGCCCGGACGCGGGAGGACCGGGCTCATCGTCCCGGGAGC
 GCTCCGCGTGCAGAGGCCGCGCGCCGCGCGCTCCTCATCCCGGAGAGCGGCCGCGGGAGCCGGGTGCG
 GGGCGCCCTGCGCGCCCTCGCCCTCGCCACAGGTGGTGCAGCGCTCCGCTTCGACCCACGCGCTTT
 GTGAAAGCCAAGGAAAGGAAGCAGAGAGATCCAGATGAAGCAGCAGCAGCGGAACCGCTTAGGCAGTG
 GGGGAAGCGGGGACGGTCCGTCCGTCTCCTGGTCTCGCCAGACCCAGCCCTGCTGCCTGACTGGCCG
 AGGGGACGCCCCCTAACCGCTCCCGAAACCGCAGCTCCTCAGTGGACAGTTTCCGACGCCGCTGCTGCTCT
 GCCAGCTCCTGCAGCAGTTTGGAGGATTCTCTGAGTCGCTCTCCAGAGGGGGTACCGCGCCGCTGGGA
 AGCCTCCAGCCCAACGCCCTGGAGTGGGTCCAATATGAAGTCTCCCCCGTGAACGCAGCCACCATCA
 GAAATCTCTGGCCAACTCCGGGGCTGGGTCCCCATCAAAGAGTACAGCTCGGAGCACCAGGCGGCTGAC
 ATGGCCGAAATAGACGCACGCTGAAGGCTTGCAGGAGTACATGAACCGACTGGACATGCGGTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234321 representing NM_001267723
 Red=Cloning site Green=Tags(s)

MDQPAGLVQVYVFRGVEHAVRVMVSGQVLELEVEDRMTADQWRGEFDAGFIEDLTHKTGNFKQFNIFCHM
 LESALTQSSSVTLDLLTYTDLESRLNRKMGGRPGSLAPRSAQLNSKRYLILIIYSVEFDRIHYPLPLPYQ
 GKPDPPVVLQGIIRSLKEELGRLQGLDQNTDRENEIWHLREQVSRASEKRELEAQLGRSREEALAGR
 AARQEAELRGLVRGLELELRQERGLGHRVAGRRGQDCRRLAKELEEAKASERSLRARLKTLSLALYK
 RGRRTPPVQPPPTREDRASSRERSASRGRGAARSSSRESGRGSRGRPARPSPPTGGRALRFDPTAF
 VKAKERKQREIQMKQQQRNRLGSGSGDGPVSVSRQTQPPAALTGRGDAPNRSRNRSSSVDSFRSRCSS
 ASSCSDLEDFSESLSRGGHRRRGKPPSPTPWSGSNMKSPVVERSHHQSLANSGGWVPIKEYSSEHQAAD
 MAEIDARLKALQEYMNRLDMRS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001267723

ORF Size: 1536 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_001267723.2](#)

RefSeq Size: 1840 bp

RefSeq ORF: 1539 bp

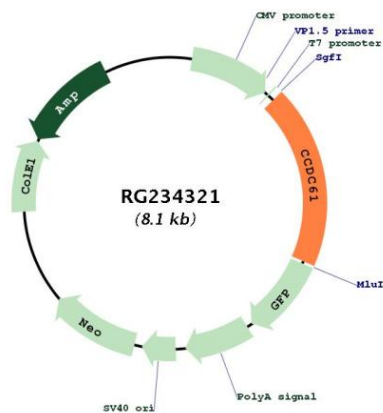
Locus ID: 729440

UniProt ID: [Q9Y6R9](#)

Cytogenetics: 19q13.32

Gene Summary:

Microtubule-binding centrosomal protein required for centriole cohesion, independently of the centrosome-associated protein/CEP250 and rootletin/CROCC linker (PubMed:31789463). In interphase, required for anchoring microtubule at the mother centriole subdistal appendages and for centrosome positioning (PubMed:31789463). During mitosis, may be involved in spindle assembly and chromatin alignment by regulating the organization of spindle microtubules into a symmetrical structure (PubMed:30354798). Has been proposed to play a role in CEP170 recruitment to centrosomes (PubMed:30354798). However, this function could not be confirmed (PubMed:31789463). Plays a non-essential role in ciliogenesis (PubMed:31789463, PubMed:32375023).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG234321