

Product datasheet for **RG206101**

CCDC93 (NM_019044) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC93 (NM_019044) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCDC93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206101 representing NM_019044
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTTTGGCCAGGGGCGCGAGGGCCAGGGTCTCCCGAGGTGGAACAAGAGAAGATGAAGAACAAA
 ATGTC AAGTTGACTGAAATTCCTGGAGCTCTGGTTGCAGCTGGGCATTTACAGGCAAGAATTAAAGGCTT
 ATCACCCCTTTGACAAGGTAGTAGGAGGAATGACTTGGTGTATCACCACTTGCAACTTTGATGTAGATGTT
 GATTTGCTCTTTCAAGAAAACCTACGATAGGTCAAAAAATAGCTCTGTGAGAAAAATGTCTCGGTCC
 TGCCAAGGATGAAATGCCACACCAGCTGGAGCCCCACCAGATCCAGGGGATGGATTTTATTACATATT
 TCCTGTTGTTCAGTGGCTGGTGAACGAGCTATAGAAACAAAAGAAGAGATGGGTGACTATATCCGCTCC
 TACTCTGTATCCAGTTCAGAAAGCTTACAGTCTCCCTGAGGATGATGACTTCATAAGAGAAAAAGAAA
 AGGCCATCAAGACAGTTGTGGACCTCTCAGAAGGTACAAGCCCCGTCGAAATACAAACGCCACCAGGG
 AGCAGAGGAGCTACTTGATGAAGAATCTCGAATCCATGCTACACTTTTGAATATGGCAGGAGATATGGA
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 GACCAAGATGACCGCTATGGCAATGAGGAGAGCCGTCTACCGCAAGCTCCGTGGGCCAGATTGTGGGA
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 AAACCAAGCAGTTCTTCACTTTATATAATACCCTGGATGATAAAAAGGTTTATTTGGAAGAAAGAGATTAG
 TCTGCTGAACTCAATTCATGAGAACTTCTCACAGGCCATGGCCTCCCTGCTGCCGGGACCAGTTTTTA
 CGTCAGATGGAACAGATTGTGGAAGGAATTAAGCAAAGTAGAATGAAGATGGAAGAAAGAAAGCAAGAGA
 ACAAATGAGAAGAGACAGTTGAACGACCACTTGGAGCTGTAGAAAAGCAGAGGCTATACCTTAA
 GACTGTGAAAGAGTTCAAGGAGGAGGGCGCAAGAACGAGATGCTGCTGTCCAAGGTGAAAGCGAAGGCC
 TCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

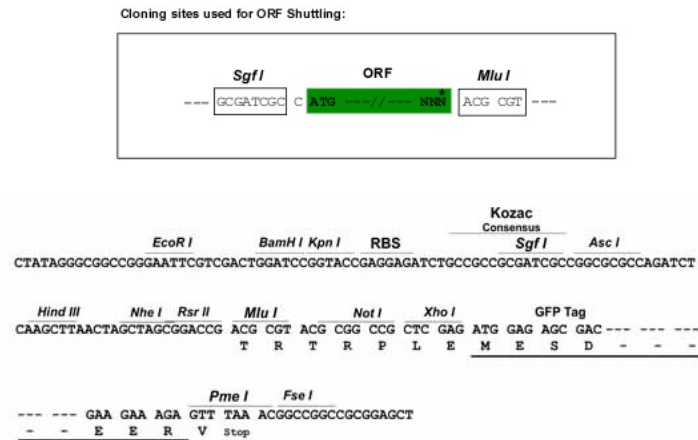
>RG206101 representing NM_019044
 Red=Cloning site Green=Tags(s)

MGLPRGPEGQGLPEVETREDEEQNVKLTEILELLVAAGHFRARIKGLSPFDKVVGGMTWCITTCNFDVDV
 DLLFQENSTIGQKIALSEKIVSVLPRMKCPHQLEPHQIQGMDFIHIFPVVQWLVKRAIETKEEMGDYIRS
 YSVSQFQKTYSLPEDDDFIKRKEKAIKTVVDLSEVYKPRRKYKRHQGAEEELDEESRIHATLLEYGRRYG
 FSCQSKMEKAEDKKTALPAGLSATEKADAHEEDELRAAEEQRIQSLMTKMTAMANEESSLTASSVGQIVG
 LCSAEIKQIVSEYAEKQSELSAEESPEKLGTSQLHRRKVISLKNQIAQKTKHLEELRASHTSLQARYNEA
 KKTLTELKTYSEKLDKEQAALIEKIESKADPSILQNLRALVAMNENLKSQEQEFKAHCREEMTRLQOEIEN
 LKAERAPRGDEKTLSSGEPPGTLTSAMTHDEDLDRRYNMEKEKLYKIRLLQARRNREIAILHRKIDEVPS
 RAELIQYQKRFIELYRQISAVHKETKQFFTLYNTLDDKKVYLEKEISLLNSIHENFSQAMASPAARDQFL
 RQMEQIVEGIKQSRMKMEKKKQENKMRRDQLNDQYLELLEKQRLYFKTVKEFKEEGRKNEMLLSKVKAKA
 S

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019044

ORF Size: 1893 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019044.3](#), [NP_061917.3](#)

RefSeq Size: 6794 bp

RefSeq ORF: 1896 bp

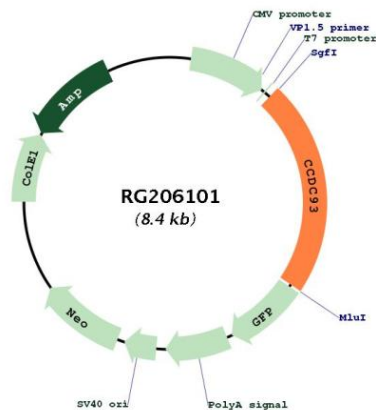
Locus ID: 54520

UniProt ID: [Q567U6](#)

Cytogenetics: 2q14.1

Gene Summary: Component of the CCC complex, which is involved in the regulation of endosomal recycling of surface proteins, including integrins, signaling receptor and channels. The CCC complex associates with SNX17, retriever and WASH complexes to prevent lysosomal degradation and promote cell surface recycling of numerous cargos such as integrins ITGA5:ITGB1 (PubMed:28892079, PubMed:25355947). Involved in copper-dependent ATP7A trafficking between the trans-Golgi network and vesicles in the cell periphery; the function is proposed to depend on its association within the CCC complex and cooperation with the WASH complex on early endosomes and is dependent on its interaction with WASHC2C (PubMed:25355947). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206101