

Product datasheet for **MG216434**

Ccdc93 (NM_029955) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc93 (NM_029955) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccdc93
Synonyms:	4633402D15Rik; 9230102M16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216434 representing NM_029955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGTTACCCAAGGGGCCAGAGGGCCAGGGACTCCCGAGGTGGAGACGAGAGAAGACGAAGAACAGA
 ATGTCAAGCTGACTGAAATCCTGGAGCTTTGGTCGCAGCTGGCTATTTTCAGAGCAAGAATTAAGGCTT
 GTCTCCTTTTCGACAAGGTAGTAGGAGGAATGACGTGGTGTATCACCACATGCAGCTTTGATGTGGACGTG
 GATTTGCTCTTTCAAGAAAACCTACAATCGGTGAGAAAATTGCTCTATCGGAAAAGATTGTCTCCGTCC
 TCCAAGGATGAAGTGTCCCACCAGCTGGAGCCCACCAGATCCAGGGCATGGATTTTATCCACATATT
 CCCTGTCGTGCAGTGGCTGGTGAACGAGCTATCGAAACAAGGAAGAGATGGGAGACTACATCCGCTCC
 TACTCCATCTCTCAGTTCAGAAGACCTACAGCCTCCCGAGGATGATGACTTCATAAAGAGAAAAGACA
 AGGCCGTCAAGACGGTCTTTGGCTCTCGGATGCTTACAAGCCCCGGCGAAAAGTACCGACGGCAGCGGGG
 AGCAGAGGAGCTGCCAGACGAAGAGTCCCGAGTCCACTCCACACTTCTGGAATATGGCAGGAGATACGGA
 TTTAGTCGCCAGAGCAAAACAGAGAAGGCTGAGGACAAGAAAACAGCACTTGGCTGCAGGGCTGTCAGCTG
 CAGAGAAAAGTGGATGCTCACGAGGAAGATGAGCTTCAGGCAGCCGAAGAGCAGCGTATTCAGTCACTGAT
 GACCAAGATGACCGCCATGGCAAACGAGGAGAGCCGTCTCACCGCAAGCTCCGTGGGCCAGATCGTGGGT
 CTCTGCTCTGAGGAGATCAAGCAGATTGTGTCTGAGTACGCAGGGAAGCAGTCTGAGCTGTCCGCTGAAG
 AAAGTCCAGAGAAGTTAGGAACCTCCAGCTGCATCAGCGGAAAGTCATTTCTTGAATAAGCAGATTCT
 GCAGAAGACAAACATCTGGAAGAGTGAAGGATCATGGTGAAGAACTAGACAAGAGCAGGCAGCCCTGGAGAA
 AAGAAGACACTGACAGAGTTGAAGGATCATGGTGAAGAACTAGACAAGAGCAGGCAGCCCTGGAGAA
 TAGAAGCCAAAGCCGACCAAGCATGCTGCAAACTGAGAGCACTTGTAGCCATGAATGAAAGCTGAA
 AAGCCAGGAGCAGGAGTTTAAGGCACACTGCCGGGAGGAGATGGCTCGGCTACAACAGGAAATTGAGACC
 CTGAAAGCTGAGAGAGCACAGGTGAGAAGATCATCTCTGGTGGAGAGCCGAGGGTGCCCTGACCTCCA
 CCATGACTCACAATGAGGACCTGGACAGACGGTACAACATGAAAAAGAGAAGCTGTACAAGATCCGGTT
 ACTACAGGCACGAAGAAATCGAGAAATAGCAATTTTGCATCGCAAGATTGACGAAGTGCCAGTCGAGCA
 GAGCTGATACAGTATCAGAAGCGATTTATTGAACTCTACCGTCAAGTTCCGCAGTGCACAAGGAAACCA
 AGCAGTTCTTCACTTTGTACAATACCCTGGATGACAAAAAGGTTTACCTGGAGAAGGAGATTAGCCTGCT
 GAACTCTATTACGAGAACTTCTACAAGCCATGGCTCCCTGCTGCCGGGACCAGTTTTTAAGGCAG
 ATGGAACAGATCGTGAAGGCATTAACAAAGCAGGATGAAGATGAAAAAGAAGAAGCAGGAGAACAAGA
 TGAGGAGGGACCAGTTGAACGATCAGTACTTGGAGCTCCTGAAAAAGCAGAGGCTCTACTCAAGACTGT
 GAAAGAGTTCAAAGAGGAGGGCCGAAAGAAATGAGCTATTACTATCTAAGATCAAAGCCAAGGCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216434 representing NM_029955
 Red=Cloning site Green=Tags(s)

MGLPKGPEGQGLPEVETREDEEQNVKLEILELLVAAGYFRARIKGLSPFDKVVGGMTWCITTCFSDVDV
 DLLFQENSTIGQKIALSEKIVSVLPRMKCPHQLEPHQIQGMDFIHIFPVVQWLKRAIETKEEMGDYIRS
 YSISQFQKTYSLPEDDDFIKRKDKAVKTVVGLSDAYKPRRKYRRQRGAELPDEESRVHSTLLEYGRRYG
 FSRQSKTEKAEDKKTALAAGLSAAEKVDAHEEDELQAAEEQRIQSLMTKMTAMANEESSLTASSVGQIVG
 LCSEEEKQIVSEYAGKQSEL SAEESPEKLGTSQLHQRKVISLNKQILQSKHLEELQANHTSLKAKYSDR
 KKTLELKDHEKLDKEQAALKELEAKADPSMLQNLRALVAMNESLKSQEQEFKAHCREEMARLQQELET
 LKAERAPGEKIIISGGEPQALTSTMTNHEDLDRRYNMEKEKLYKIRLLQARRNREIAILHRKIDVPSRA
 ELIQYQKRFIELYRQISAVHKETKQFFTLYNTLDDKVVYLEKEISLLNSIHENFSQAMASPAARDQFLRQ
 MEQIVEGKIQSRMKMEKKKQENKMRDQLNDQYLELLEKQRLYFKTVKEFKEEGRKNELLLSKIKAKAS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_029955

ORF Size: 1884 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_029955.3](#), [NP_084231.2](#)

RefSeq Size: 7269 bp

RefSeq ORF: 1887 bp

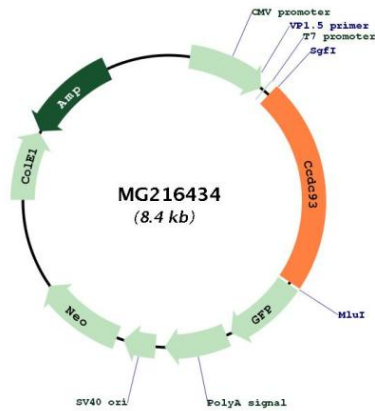
Locus ID: 70829

Cytogenetics: 1 E2.3

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. 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216434