

Product datasheet for **RR213082**

Ccdc93 (NM_001024997) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc93 (NM_001024997) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ccdc93
Synonyms:	MGC109336
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213082 representing NM_001024997
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTTACCCAAGGGGCCGAGGGCCAGGGGCTCCCGAGGTGAAACGAGAGAAGACGAAGAACAGA
 ATGTCAAGCTGACTGAAATCCTGGAGCTTTGGTTGCGGCTGGCTATTTTCAGAGCAAGAATTAAGGCTT
 GTCTCCTTTTCGACAAGGTAGTAGGAGGAATGACGTGGTGTATCACCACTTGCAGCTTTGATGTGGATGTG
 GATTTGCTCTTTTCAGAAAACCTACAATCGGTGAGAAAATAGCTCTGTCGAAAAGATCGTCTCGGTCC
 TCCAAGGATGAAGTGCCCCACCAGCTGGAGCCCCACCAGATCCAGGGCATGGATTTTATCCACATCTT
 CCCTGTCGTGCAGTGGTGGTGAAGCGAGCTATAGAGACAAAGGAAGAGATGGGCGACTACATCCGCTCC
 TACTCCATCTCCAGTTCAGAAAGCTACAGCCTCCCGAGGATGATGACTTCATAAAGAGAAAAGACA
 AAGCCATCCAGACAGTCTTTGACCTCTCGGATGCTTACAAGCCCCGGCGAAAAGTACAGACGGCAGCAGGG
 AGCAGAGGAGCTACTGGACGAGGAGTCCCGGGTCCACTCCAGCTTCTGGAATATGGCAGGAGACACGGC
 TTTAGTCGTGAGAGCAAGACAGAGAAGGCTGAGGACAAGAAAACAGCGCTTGGCTGCGGGGCTCTCAGCTG
 CAGAGAAAACGGATGCTCACGAGGAAGATGAGCTTCAAGCAGCTGAGGAGCAACGAATTCAGTCACTGAT
 GACCAAGATGACCGCCATGGCAAATGAGGAGAGCCGTCTCACCGCAAGCTCCGTGGGCCAGATCGTGGGT
 CTCTGCTCCGCCGAGATCAAACAGATTGTGTCTGAGTACGAAGGGAAGCAGTCTGAGCTGTCCGCTGAAG
 AAAGTCCAGAGAAATAGGAACCTCCCACTGCATCAGCGGAAGGTCATTTCTTGAATAAACAGATTCT
 GCAGAAGACCAACATCTAGAAGAGCTGCAAGCGAATCATACCAGCCTCCAAGCCAAGTACAGCGACAAG
 AAGAAGACGCTGACAGAGCTGAAGAATCACGGTGAAGAACTAGACCAAGAGCAGGCAGCCCTGGAGAAGT
 TAGAAGCCAAAGCCGACCCGAGCATTCTGCAAGAACCTGAGAGACTCGTCGCCATGAATGAAAGTCTGAA
 AAGCCAGGAACAGGAGTTTAAAGCGCACTGCCGGGAGGAGATGGCTCGGCTCCAACAGGAAATTGAGATC
 CTGAAAGCCGAGAGAGCGCCAGGCGAGAAGACTATCTCCAGCGGAGAGCCGAGGGTGCCTGACCTCCA
 CCATGACTCACAATGAGGACCTGGACAGACGGTACAACATGAAAAAGAGAAGCTGTACAAGATCCGGTT
 ACTACAGGCAAGAAGAAATCGAGAAATAGCGATTTTGCACCGCAAGATTGATGAAGTGCCAGTCGAGCA
 GAGCTGATACAGTATCAGAAGCGATTTATTGAGCTCTACCGTCAAGTTTCCGCGGTGCACAAGGAGACCA
 AGCAGTTCTTCACTTTGTACAATACCCTGGATGACAAAAAGGTTTATCTAGAAAAGGAGATTAGCCTGCT
 AAATCAATTCATGAGAACTTCTACAAGCCATGGCTCCCTGCTGCCGGGACCAGTTTTTAAGGCAG
 ATGGAACAGATCGTGAAGGCATTAACAAAGCAGGATGAAGATGAAAAGAAGAAGCAGGAGAACAAGA
 TGAGAAGGGACCAGTTGAACGATCAGTACTTGGAGCTCCTGAAAAGCAGCGGCTCTACTCAAGACTGT
 AAAAGAGTTCAAAGAGGAGGGCCGAAAAGATGAGCTATTACTGTCTAAGATCAAAGCCAAGGCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213082 representing NM_001024997
 Red=Cloning site Green=Tags(s)

MGLPKGPEQGLPEVETREDEEQNVKLEILELLVAAGYFRARIKGLSPFDKVVGGMTWCITTCFSFDVVD
 DLLFQENSTIGQKIALSEKIVSVLPRMKCPHQLEPHQIQGMDFIHIFPVVQWLVKRAIETKEEMGDYIRS
 YSISQFQKTYSLPEDDDFIKRKDKAIQTVVDLSDAYKPRRKYRRRQGAEEELLDEESRVHSTLLEYGRRHG
 FSRQSKTEKAEDKKTALAAGLSAAEKTDAAHEEDELQAAEEQRIQSLMTKMTAMANEESRLTASSVGQIVG
 LCSAEIKQIVSEYEGKQSEL SAEESPEKLGTSQLHQKVISLNKQILQKTKHLEELQANHTSLQAKYSDK
 KKTLTELKNHGEKLDQEQAALKELEAKADPSILQNLRALVAMNESLKSQEQEFKAHCREEMARLQOEIEI
 LKAERAPGEKTISSGEPQGALSTMTHNEDLDRRYNMEKEKLYKIRLLQARRNREIAILHRKIDEVPSRA
 ELIQYQKRFIELYRQISAVHKEKQFFTLYNTLDDKVVYLEKEISLLNSIHENFSQAMASPAARDQFLRQ
 MEQIVEGKQSRMKMEKKQENKMRDQLNDQYLELLEKQRLYFKTVKEFKEEGRKNELLLSKIKAKAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:	<ol style="list-style-type: none">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_001024997.1 , NP_001020168.1
RefSeq Size:	2403 bp
RefSeq ORF:	1890 bp
Locus ID:	304743
UniProt ID:	Q5BJT7
Cytogenetics:	13q11
MW:	72.6 kDa
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]