

## Product datasheet for **RC203492**

### CCN1 (CYR61) (NM\_001554) Human Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | CCN1                                                              |
| Synonyms:                 | CYR61; GIG1; IGFBP10                                              |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >RC203492 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTCCCGCATCGCCAGGGCGCTCGCCTTAGTCGTACCCTTCTCCACTTGACCAGGCTGGCGCTCT  
 CCACCTGCCCCGCTGCCTGCCACTGCCCCCTGGAGGCGCCCAAGTGC GCGCCGGGAGTCGGGCTGGTCCG  
 GGACGGCTGCGGCTGCTGTAAGGTCTGCGCCAAGCAGCTCAACGAGGACTGCAGCAAAACGCAGCCCTGC  
 GACCACACCAAGGGGCTGGAATGCAACTTCGGCGCCAGCTCCACCGCTCTGAAGGGGATCTGCAGAGCTC  
 AGTCAGAGGGCAGACCCTGTGAATATAACTCCAGAATCTACCAAAACGGGAAAGTTTCCAGCCCAACTG  
 TAAACATCAGTGACATGTATTGATGGCGCCGTGGGCTGCATTCTCTGTGTCCCAAGAACTATCTCTC  
 CCCAACTTGGGCTGTCCAACCCCTCGGCTGGTCAAAGTTACCGGGCAGTGCTGCGAGGAGTGGGTCTGTG  
 ACGAGGATAGTATCAAGGACCCCATGGAGGACCAGGACGGCCTCCTTGGCAAGGAGCTGGGATTTCGATGC  
 CTCCGAGGTGGAGTTGACGAGAAACAATGAATTGATTGCAGTTGGAAAAGGCAGCTCACTGAAGCGGCTC  
 CCTGTTTTTGAATGGAGCCTCGCATCCTATAACCCCTTACAAGGCCAGAAATGTATTGTTCAAACAA  
 CTTTCATGGTCCCAGTGCTCAAAGACCTGTGGAAGTGGTATCTCCACACGAGTTACCAATGACAACCTGA  
 GTGCCGCCTTGTGAAAGAAACCCGATTTGTGAGGTGCGGCCTTGTGGACAGCCAGTGTACAGCAGCCTG  
 AAAAAGGGCAAGAAATGCAGCAAGACCAAGAAATCCCCGAACCAAGTCAGGTTTACTTACGCTGGATGTT  
 TGAGTGTGAAGAAATACCGGCCCAAGTACTGCGGTTTCTGCGTGGACGGCCGATGCTGCACGCCCAAGCT  
 GACCAGGACTGTGAAGATGCGGTTCCGCTGCGAAGATGGGGAGACATTTTCCAAGAACGTCATGATGATC  
 CAGTCCTGCAAAATGCAACTACAAGTCCCGCATGCCAATGAAGCAGCGTTTCCCTTCTACAGGCTGTTCA  
 ATGACATTACAAATTTAGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC203492 protein sequence  
 Red=Cloning site Green=Tags(s)

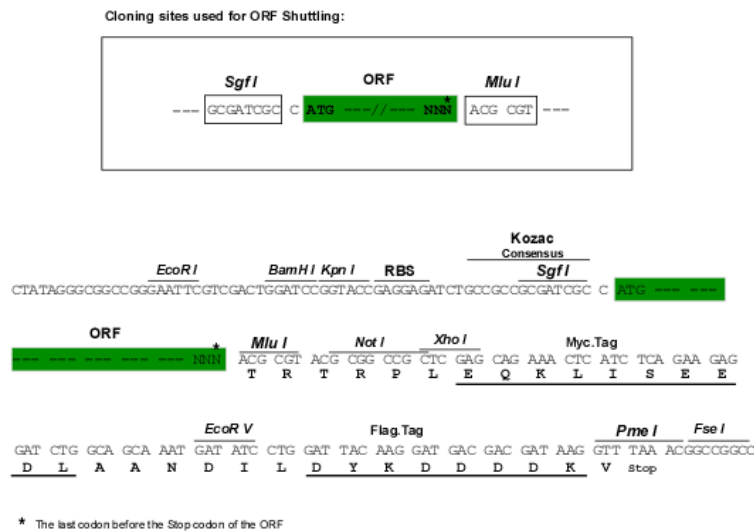
MSSRIARALALVVTLLHLTRLALSTCPAACHCPLEAPKCAPGVLVRDGGCGCKVCAKQLNEDCSKTQPC  
 DHTKGLECNFGASSTALKGICRAQSEGRPCEYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCPQELSL  
 PNLGCPNPRLVKVTGQCCEEWVCEDESIKDPMEDQDGLLGKELGFDASEVELTRNNELIavgkssslkrl  
 PVFGMEPRILYNPLQGQKCIvQTTSWSQCSKTCGTGISTRVTNDNPECRLVKETRICEVRPCGQPVYSSL  
 KKGKKCSKTKKSPEPVRFtyagclsvkkyrpkycgscvdgrcctpqltrtvkmrfrCEDGETFSKNVMMI  
 QSCKCNYNCPHANEAAFPFYRLFNDIHKFRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6270\\_b05.zip](https://cdn.origene.com/chromatograms/mk6270_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001554

**ORF Size:** 1143 bp

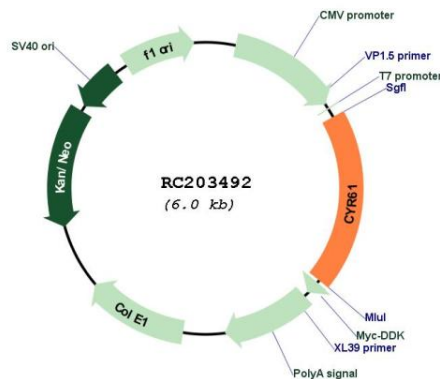
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

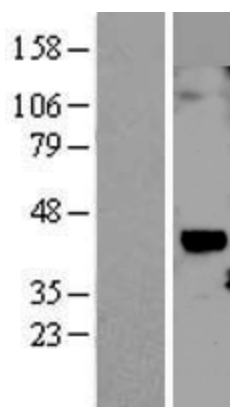
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_001554.5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq Size:</b>           | 2295 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1146 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 3491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID:</b>            | <u>O00622</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 1p22.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | IB, tsp_1, VWC, CT, Cys_knot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Families:</b>      | Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MW:</b>                    | 42 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Summary:</b>          | The secreted protein encoded by this gene is growth factor-inducible and promotes the adhesion of endothelial cells. The encoded protein interacts with several integrins and with heparan sulfate proteoglycan. This protein also plays a role in cell proliferation, differentiation, angiogenesis, apoptosis, and extracellular matrix formation. [provided by RefSeq, Sep 2011]                                                                                                                                     |

## Product images:



Circular map for RC203492



Western blot validation of overexpression lysate (Cat# [LY419863]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).