

## Product datasheet for **MG221828**

### Cyr61 (NM\_010516) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyr61 (NM_010516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyr61
Synonyms:	AI325051; CCN1; Igfbp10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221828 representing NM_010516 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTCCAGCACCTTCAGGACGCTCGTGTGCGCGTCACCCTTCTCCACTTGACCAGACTGGCGCTCT  
CCACCTGCCCCGCGCCTGCCACTGCCCTCTGGAGGCACCAAGTGCGCCCGGGAGTCGGGTTGGTCCG  
GGACGGCTGCGGCTGCTGAAGGTCTGCGCTAAACAACCAACGAGGACTGCAGCAAACTCAGCCCTGC  
GACCACACCAAGGGTTGAATGCAATTCGGCGCCAGCTCCACCCTCTGAAAGGGATCTGCAGAGCTC  
AGTCAGAAAGCAGACCCTGTGAATATAACTCCAGAATCTACAAAACGGGAAAGCTTCCAGCCAACTG  
TAAACACCAGTGACATGTATTGATGGCGCCGTGGGCTGCATTCTCTGTGTCCCAAGAACTGTCTCTC  
CCCAATCTGGGCTGTCCCAACCCCGGCTGGTGAAGTACGCGGGCAGTGTGTGAAGAGTGGGTTTGTG  
ATGAAGACAGCATTAAAGGACTCCCTGGACGACCAGGATGACCTCCTCGGACTCGATGCCTCGGAGGTGGA  
GTTAACGAGAAACAATGAGTTAATCGCAATTGGAAAAGGCAGCTCACTGAAGAGGCTTCTGTCTTTGGC  
ACCGAACCAGGAGTTCTTTTCAACCCTCTGCACGCCATGGCCAGAAATGCATCGTTTCCAGCCAGTCTT  
GGTCCCAGTGCTCCAAGAGCTGCGGAACGGCATCTCCACACGAGTTACCAATGACAACCCAGAGTGCCG  
CCTGGTGAAGAGACCCGGATCTGTGAAGTGCCTCCTTGTGGACAACAGTGTACAGCAGCCTAAAAAAG  
GGCAAGAAATGCAGCAAGACCAAGAAATCCCAGAACAGTCAAGTTTACTTATGCAGGATGCTCCAGTG  
TCAAGAAATACCGGCCAAATACTGCGGCTCCTGCGTAGATGGCCGGTGTGCACACCTCTGCAGACCAG  
AACTGTGAAGATGCGGTTCCGATGCGAAGATGGAGAGATGTTTTCCAAGAAATGTCATGATGATCCAGTCC  
TGCAAATGTAACATAACTGCCGCATCCCAACGAGGCATCGTTCCGACTGTACAGCCTATTCAATGACA  
TCCACAAGTTCAGGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221828 representing NM\_010516  
Red=Cloning site Green=Tags(s)

MSSSTFRTLAVAVTLLHLTRLALSTCPAACHCPLEAPKCAPGVLVRDGGCGCKVCAKQLNEDCSKTQPC  
 DHTKGLECNFGASSTALKGICRAQSEGRPCEYNSRIYQNGESFQPNCKHQCTCIDGAVGC IPLCPQELSL  
 PNLGCPNPRLVKVSGQCCEEWVCDSDSIKDSLDDQDDLGLDASEVELTRNNELIAIGKSSLRPLPVFG  
 TEPRVLFNPLHAHGQKCI VQTTSWSQCSKSCGTGISTRVTNDNPECR L VKETRICEVPCGQPVYSSLKK  
 GKKCSKTKKSPEPVRF TYAGCSSVKKYRPKYCGSCVDGRCTPLQTRTVKMRFRCE DGEMFSKNVMMIQS  
 CKCNYNCPHPNEASFRLYSLFNDIHKFRD

TRTRPLE - GFP Tag - V

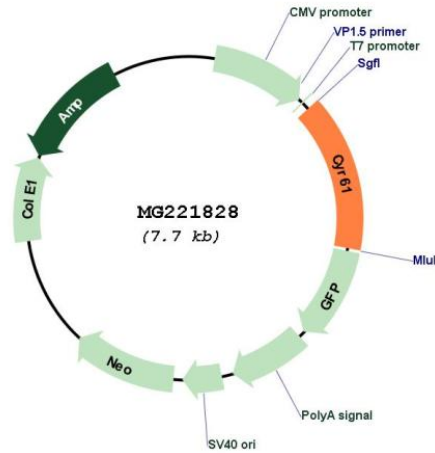
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_010516

<b>ORF Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_010516.2</a> , <a href="#">NP_034646.1</a>
<b>RefSeq Size:</b>	2028 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	16007
<b>UniProt ID:</b>	<a href="#">P18406</a>
<b>Cytogenetics:</b>	3 70.18 cM
<b>Gene Summary:</b>	Promotes cell proliferation, chemotaxis, angiogenesis and cell adhesion. Appears to play a role in wound healing by up-regulating, in skin fibroblasts, the expression of a number of genes involved in angiogenesis, inflammation and matrix remodeling including VEGF-A, VEGF-C, MMP1, MMP3, TIMP1, uPA, PAI-1 and integrins alpha-3 and alpha-5 (By similarity). CCN1-mediated gene regulation is dependent on heparin-binding (By similarity). Down-regulates the expression of alpha-1 and alpha-2 subunits of collagen type-1 (By similarity). Promotes cell adhesion and adhesive signaling through integrin alpha-6/beta-1, cell migration through integrin alpha-1/beta-5 and cell proliferation through integrin alpha-v/beta-3 (By similarity). [UniProtKB/Swiss-Prot Function]