

## Product datasheet for **MG211772**

### Cilp (BC080666) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cilp (BC080666) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cilp
Synonyms:	9830114D16; C130036G17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211772 representing BC080666 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCAATCAAGACTTGGGTATTCTCTTTCTGGTCTTGAGGTACCACCCTGCTGGGGAGACAGA  
CGATGCTTGCCAGTCAGTGAGAAGAGTCCAGCCTGTGAAGAGGACCCCAAGACCCTTGCCAAGCCTGC  
CGACTCCCAGGAGAGTCCCGGAGAGTGGACAACATGGTTAAACATCGACCACCCAGGTGGCAGGGTGAC  
TATGAGCGGCTGGATGCCATTGCTTCTACTATGGGGAGCGTGTGTGCCCGTCCCCTGCGGCTAGAGG  
CCCGGACCACTGACTGGATGCCTGCGGGCAGCACTGGCCAGGTGGTCCACGGCAGTCCCCGTGAGGGCTT  
CTGGTGCCTCAACAGGGAGCAGAGACCAGGCCAGAAGTGTCCAATTATACCGTGCCTTCTCTGCCCA  
CCAGGGTCTTGCAGGAGATGCAGAGCACATCTGGAGTTCCTGGTCTCCCTGGAGCAAGTGCTCAGCTG  
CCTGCGGTCACTGGGGTGCAGACCCGTACCCGCACCTGCTTGGCACAGACAGTGTCACTGTGCAGTGA  
GGCAGCCAGGAGGGCCAGCTCTGCATGAGCCAGGCTGCACAGCTTGTGACCTGACCTGCCCATGGGC  
CAGGTAATGTGACTGTGATGCCTGCATGTGCCAGGACTTCATGCTTACGGGGCCATCTCCCTCCCTG  
GAGGTGGCCAGTCCAGGAGCCGCTGTACTCTGCTGGCCAAGGCACCAAGATGTGACCCGAACAGA  
CAGCAGCGGGAGGTTCCGAGTTCCTGGCTTGTGCTGATGGCAAACCCTCTGAAAATACCAAGACC  
AAGTTTGGCCCAATTATGATCACGATGCCAAGACTAGCCTGAAGTCAGTACCATCAATGCGGAGTTTG  
TGAGGGCAGAGACCCATACATTGTAATGAACCCTGAGATGAAAGCACGTCGGGCTGGGCAGAGTGTGTC  
TCTGTGCTGCAAAGCCACGGGAAACCCAGTCCGGACAAGTACTTCTGGTACCACAACAACACTGCTG  
GATCCCTCCCTCTATAAGCACGAGAGCAAGCTGGTGTGAGGAACCTGCAGCAGGACCAAGCAGGGGAGT  
ACTTCTGTAAGGCTCAGAGTGTGCTGGGGCTGTGAAGTCCAAGGTACCCAGCTCACTGTCAATGCACA  
TGATGAGACTCCTTGCAACCAACCCAGAGAGCTACCTATCCGGCTGCCCATGACTGCTTTCAGAAC  
GCCAGCAATTCTTCTACTACGACGTAGGCCGCTGCCGATCAAGACCTGTGCAGGGCAGCAGGACAATG  
GGATCCGGTCCGAGATGCTGTGGAGAAGTGTGCGGCATTTCCAGAACAGAAGAGAGGGAGATCCAGTG  
CAGTGGGTACACTGCCACCAAGGTGGCTGTGGAGTGCAGTGCCAACGATGCCAGAGACACGGAGC



[View online »](#)

ATCGTCCGGGGCCGAGTCACTGCTACTGACAACGGGGAGCCCATGCGCTTTGGCCATGTGTACATGGGGA  
 ATAACCGCGTGAGCATGACTGGCTACAAAGGCACCTTCACACTCCACATCCCCCAGGACACGGAGAGGCT  
 GGTGCTCACATTTGTGGACAGGCTGCAGAAGTTTGTCAACACAACCAAAGTGCTGCCCTTCAACAAGAAG  
 GGAAGCGCAGTGTTCACGAGATCAAGATGCTTCGGCAGAAAGAGCCCATCACGTTGGAAGCCATGGAGA  
 CCAACATTATCCCCCTGGGAGAGGTGATTGGTGAAGACCCTGTGGCTGAGCTGGAGATCCATCCAAAAG  
 TTTCTATAGGCAGAACGGGGAGCCCTTCACAGGAAAGGTAAGGGCCAGCGTGACCTTCTCGATCCCTCG  
 AACATCTCGACGGCCACAGCTGCCAAAAGTGACCTCAACTTCATCAATGATGAAGGAGACACTTTTCCCC  
 TTAGAACATATGGTATGTTTTTCAGTGGACTTTAGAGATGAGGCCACTTCGAGTCACTTAATGCTGGCAA  
 GGTGAAGGTCCACCTTGACTCGACCCAGGTCAAATGCCAGAGCATGTGCCAGCCATGAAACTCTGGTCG  
 CTCAACCCAGACACAGGACTGTGGGAAGAGGAAGGGGATTTCAAGTTTAAAAGCCAAAGGAGGAACAAGA  
 GGGAAAGAGAGAACCTTCTAGTGGGCAATATGGAGATCCGGGAGAGAAGGCTCTTTAACCTGGACGTCCC  
 TGAAAGCCGAAGGTGCTTATTAAAGGTGAGGACTTACCGGAGTGAGAGGTTCTGCCAGTGAGCAAATT  
 CAGGGAGTTGTGGTCTCAGTGATCAATCTGGAGCCAGAAGTGGCTTCTCATCTAACCCAGGGCCTGGG  
 GCCGATTTGACAGTGTCATCACAGGGCCCAATGGGGCCTGCCTGCCTGCCTTCTGTGATGATCAGTCCCC  
 CGATGCTTACTCTGTCTATGTCTTGGCAAGCCTTCTGGAGAAGAACTAGAGGCAGTTGAGTCTTCTCCT  
 AAATTC AACCCAAATGCAATCGGTGTCCCTCAGCCTTACCTCAACAAACTTAAATACCGTCGGACAGACC  
 ATGAGGATCCACGGGTTAAAAAGACGGCTTTCAAATCAGTATGGCCAAACCAAGGCCAACTCAGCTGA  
 GGAGAGCAATGGGCTATCTATGCCTTTGAGAACCTTCGGGCGTGTGAGGAGGCACCCCCCAGTGCAGCT  
 CACTTCCGGTTCTATCAGATCGAGGGGGATCGCTATGACTATAACACAGTTCCTTTCAATGAAGATGACC  
 CTATGAGCTGGACTGAAGACTACCTGGCATGGTGGCCCAAGCCAATGGAGTTCAGGGCCTGCTATATCAA  
 GGTTAAGATTGTGGGGCCACTGGAGGTGAATGTACGATCCCGTAACATGGGAGGCACCCACCGGCAGACT  
 GTGGGGAAGCTCTATGGGATCCGGGATGTGAAGAGTACTCGGGACAGAGACCAACCTAATGTCTCATCTG  
 CCTGCCTGGAGTTCAAGTGCAGTGGAAATGCTGTATGACCAAGACCGTGTAGACCGCACATTAGTAAAGGT  
 TATCCCCCAGGGCAGCTGCCATCGAGCTAGTGTTAACTCTATGTTGCACGAGTACCTGGTCAACCCCTT  
 CCCCTGGCAGTCAACAATGACACCAGCGAGTATACTATGCTGGCACCCCTGGACCCTCTGGGCCACAATT  
 ACGGTATCTATACTGTTACTGATCAGGACCCTCGTACAGCTAAGGAGATTGCGCTCGGCCGGTGCTTTGA  
 TGGCACTTCCGATGGCTCCTCCAGAATCATGAAGAGCAATGTGGGAGTTGCCCTGACCTTTAACTGTGCA  
 GAAAGGCAGGTAGGCCGCCAGAGTGCCTTCCAGTACCTCAAAGCACACCGGCCAGGTCCCAGCTACAG  
 GCACTGTCCAAGGAAGAGTACCAGCCATGAGGCAACAACGGGCAAGCAGGGGTGGCCTACGCCGGCGTGG  
 AAGCATGGCCCCCTGAGATTTTCTGGTGTGCTCAACAACCTCTGAGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

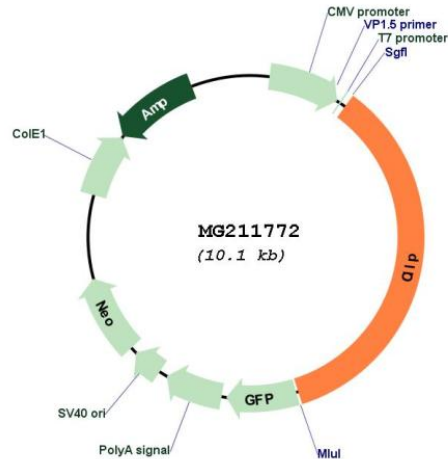
**Protein Sequence:** >MG211772 representing BC080666  
 Red=Cloning site Green=Tags(s)

MAAIKTWVFSFLVLEVTTVLGRQTMLAQSVRRVQPVKRTPKTLAKPADSQESPGEWTTWFNIDHPGGQGD  
 YERLDAIRFYGERVCARPLRLEARTTDWMPAGSTGQVVHGSPEGFWCLNREQRPGQNCSNYTVRFLCP  
 PGSRLRGD AEHIWSSWSPWSKCSAACGHTGVQTRTRTCLAQTVSLCSEATEEGQLCMSQACTACDLTCMPG  
 QVNADCDACMCQDFMLHGAI SLPGGGPAPGAAYVLLAKAPKMLTRTDSSGRFRVPLGCPDGKTI LKITKT  
 KFAPIMITMPKTSLSKATINA E FVRAETPYIVMNP EMKARRAGQSVSLCCKATGKPSDKYFWYHNNTLL  
 DPSLYKHESKLVLRNLQQDQAGEYFCKAQSDAGAVKSKVTQLTVIAHDETPCNTPESYLIRLPHDCFQN  
 ASNSFYDVGRCPIKTCAGQQDNGIRCRDAVENCCGISRTEEREIQCSGYLPTKVAVECSCQRCAETRS  
 IVRGRVATDNGEPMRF GHVYMGNNRVSM TGYKGTFTLHIPQDTERLVLTFVDRLQKFVNTTKVLPFNKK  
 GSAVFHEIKMLRQKEPITLEAMETNI IPLGEVIGEDPVAELEIPSKSFYRQNGEPFTGKVKASVTFLDPR  
 NISTATAAQSDLNF INDEGDTFPLR TYGMFSVDFRDEATSESLNAGKVKVHLDSTQVKMPEHVPAMKLWS  
 LNPDTGLWEEEGDFKFESQRRNKREERTFLVGNMEIRERRLFNLDVPESRRCFIKVRTYR SERFLPSEQI  
 QGVVVSVINLEPRTGFSSNPRAWGRFDSVITGPNGA CLPAFCDDQSPDAYSVYVLA SLSGEELEAVESSP  
 KFNPN AIGVPQPYLNKLYRRTDHE DPRVKKTA FQISMAKPRPN SAEESNGPIYAFENLRACEEAPPSAA  
 HFRFYQIEGDRYDNTVPFNEDDPMSWTE DYLA WWPKPM EFRACYIKVKI VGPL EVNVR SRNMGGTHRQT  
 VGKLYGIRDVKSTRDRDQPNVSSACLEFKCSGMLYDQDRVDR TLVKVIPQGSCHRASVNSMLHEYL VNHLL  
 PLAVNNDTSEYTMLAPLDPLGHNYGIYTVTDQDPRTAKEIALGRCFDGTSDGSSRIMKSNVGVALTFNCA  
 ERQVGRQSAFYLQSTPARSPATGTVQGRVPAMRQQRASRGGLRRRGSMAPLRFSGVAQQPLSN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** BC080666

**ORF Size:** 3554 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:** [BC080666](#), [AAH80666](#)

**RefSeq Size:** 4164 bp

**RefSeq ORF:** 3554 bp

**Locus ID:** 214425

**Cytogenetics:** 9 C

**Gene Summary:**

Probably plays a role in cartilage scaffolding. May act by antagonizing TGF-beta1 (TGFB1) and IGF1 functions. Has the ability to suppress IGF1-induced proliferation and sulfated proteoglycan synthesis, and inhibits ligand-induced IGF1R autophosphorylation. May inhibit TGFB1-mediated induction of cartilage matrix genes via its interaction with TGFB1. Overexpression may lead to impair chondrocyte growth and matrix repair and indirectly promote inorganic pyrophosphate (PPi) supersaturation in aging and osteoarthritis cartilage (By similarity).[UniProtKB/Swiss-Prot Function]