

Product datasheet for MC224053

Cilp (NM_173385) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cilp (NM_173385) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cilp
Synonyms: 9830114D16; C130036G17Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224053 representing NM_173385
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCAATCAAGACTTGGGTATTCTTTCTGGTCCTTGAGGTACCACCGTGTGGGGAGACAGA
 CGATGCTTGGCCAGTCAGTGAGAAGAGTCCAGCCTGTGAAGAGGACCCCCAAGACCCTTGCCAAGCCTGC
 CGACTCCCAGGAGAGTCCCGGAGAGTGGACAACATGGTTAACATCGACCACCCAGGTGGCAGGGTGAC
 TATGAGCGGCTGGATGCCATTCCGTTCTACTATGGGGAGCGTGTGTGCCCCGTCCCCTGCGGCTAGAGG
 CCCGGACCACTGACTGGATGCCTGCGGGCAGCACTGGCCAGGTGGTCCACGGCAGTCCCCGTGAGGGCTT
 CTGGTGCCTCAACAGGGAGCAGAGACCAGGCCAGAAGTGTCCAATTATACCGTGCCTTCTCTGCCCA
 CCAGGGTCTTGGCAGGAGATGCAGAGCACATCTGGAGTTCCTGGTCTCCCTGGAGCAAGTGCTCAGCTG
 CCTGCGGTCACTGGGGTGCAGACCCGTACCCGACCTGCTGGCACAGACAGTGTCACTGTGCAGTGA
 GGCGACCGAGGAGGGCCAGCTCTGCATGAGCCAGGCTGCACAGCTTGTGACCTGACCTGCCCCATGGGC
 CAGGTAATGCTGACTGTGATGCCTGCATGTGCCAGGACTTCATGCTTACGGGGCCATCTCCCTCCCTG
 GAGGTGGCCAGCTCCAGGAGCCGCTGTACTACCTGCTGGCCAAGGCACCAAGATGCTACCCGCAACAGA
 CAGCAGCGGGAGGTTCCGAGTTCCTGGCTTGTGCTGATGGCAAACCATCCTGAAAATCACCAAGACC
 AAGTTTGGCCCAATTATGATCACGATGCCCAAGACTAGCCTGAAGTCAGTACCATCAATGCGGAGTTTG
 TGAGGGCAGAGACCCATACATTGTAATGAACCCTGAGATGAAAGCACGTCGGGCTGGGCAGAGTGTGTC
 TCTGTGCTGCAAAGCCACGGGAAACCCAGTCCGGACAAGTACTTCTGGTACCACAACAACACTGCTG
 GATCCCTCCCTATAAGCACGAGAGCAAGCTGGTGTGAGGAACCTGCAGCAGGACCAAGCAGGGGAGT
 ACTTCTGAAGGCTCAGAGTGTGCTGGGGCTGTGAAGTCCAAGGTCACCCAGCTCACTGTCAATGCACA
 TGATGAGACTCCTTGCAACCAACCCAGAGAGTACCTTATCCGGCTGCCCCATGACTGCTTTCAGAAC
 GCCAGCAATTCCTTCTACTACGACGTAGGCCGCTGCCCGATCAAGACCTGTGCAGGGCAGCAGGACAATG
 GGATCCGGTGGCAGATGCTGTGGAGAAGTGTGCGGCATTTCCAGAACAGAAGAGAGGGAGATCCAGTG
 CAGTGGGTACACTGCCACCAAGGTGGCTGTGGAGTGCAGCTGCCAACGATGCGCAGAGACCGGAGC
 ATCGTCCGGGGCCGAGTCACTGCTGCTGACAACGGGGAGCCCATGCGCTTGGCCATGTGTACATGGGGA



ATAACCGCTGAGCATGACTGGCTACAAAGGCACCTTCACACTCCACATCCCCAGGACACGGAGAGGCT
 GGTGCTCACATTTGTGGACAGGCTGCAGAAGTTTGTCAACACAACCAAAGTGCTGCCCTTCAACAAGAAG
 GGAAGCGCAGTGTTCACGAGATCAAGATGCTTCGGCAGAAAGAGCCCATCACGTTGGAAGCCATGGAGA
 CCAACATTATCCCCCTGGGAGAGGTGATTGGTGAAGACCTGTGGCTGAGCTGGAGATCCCATCCAAAAG
 TTTCTATAGGCAGAACGGGGAGCCCTTCACAGGAAAGGTAAGGGCCAGCGTGACCTTCTGGATCCTCGG
 AACATCTCGACGGCCACAGCTGCCAAAAGTGACCTCAACTCATCAATGATGAAGGAGACACTTTTCCCC
 TTAGAACATATGGTATGTTTTTCAGTGGACTTTAGAGATGAGGCCACTTCGGAGTCACTTAATGCTGGCAA
 GGTGAAGGTCCACCTTGACTCGACCCAGGTCAAATGCCAGAGCATGTGCCAGCCATGAAACTCTGGTCG
 CTAACCCAGACACAGGACTGTGGGAAGAGGAAGGGGATTTCAAGTTTGAAGCCAAAGGAGGAACAAGA
 GGGGAAGAGAGAACCTTCTAGTGGGCAATATGGAGATCCGGGAGAGAAGGCTCTTTAACCTGGACGTCCT
 TGAAAGCCGAAGGTGCTTCATTAAGGTGAGGACTTACCGGAGTGAGAGGTTCTGCCAGTGAGCAAATT
 CAGGGAGTTGTGGTCTCAGTGATCAATCTGGAGCCAGAAGTGGCTTCTCATCTAACCCAGGGCCTGGG
 GCCGATTTGACAGTGTCATCACAGGGCCCAATGGGGCCTGCCTGCCTGCCTTCTGTGATGATCAGTCCCC
 CGATGCTTACTCTGTCTATGTCTTGGCAAGCCTTCTGGAGAAGAACTAGAGGCAGTTGAGTCTTCTCT
 AAATTCACCCAAATGCAATCGGTGTCCCTCAGCCTTACCTCAACAAACTTAAATACCGTCGGACAGACC
 ATGAGGATCCACGGGTTAAAAAGACGGCTTCCAAATCAGTATGGCCAAACCAAGGCCAACTCAGCTGA
 GGAGAGCAATGGGCCTATCTATGCCTTTGAGAACCCTTCGGGCGTGTGAGGAGGCACCCCCAGTGACGCT
 CACTTCCGGTTCTATCAGATCGAGGGGGATCGCTATGACTATAACACAGTTCTTTCAATGAAGATGACC
 CTATGAGCTGGACTGAAGACTACCTGGCATGGTGGCCCAAGCCAAATGGAGTTCAGGGCCTGCTATATCAA
 GGTTAAGATTGTGGGGCCACTGGAGGTGAATGTACGATCCCGTAACATGGGAGGCACCCACCGGCAGACT
 GTGGGGAAGCTCTATGGGATCCGGGATGTGAAGAGTACTCGGGACAGAGACCAACCTAATGTCTCATCTG
 CCTGCCCTGGAGTCAAGTGCAGTGAATGCTGTATGACCAAGACCGTGTAGACCGCACATTAGTAAAGGT
 TATCCCCAGGGCAGCTGCCATCGAGTAGTGTTAACTCTATGTTGCACGAGTACCTGGTCAACCACCTT
 CCCTGGCAGTCAACAATGACACCAGCGAGTATACTATGCTGGCACCCCTGGACCCTCTGGGCCACAATT
 ACGGTATCTATACTGTTACTGATCAGGACCCTCGTACAGCTAAGGAGATTGCGCTCGGCCGTGCTTTGA
 TGGCACTTCCGATGGCTCCTCCAGAATCATGAAGAGCAATGTGGGAGTTGCCCTGACCTTTAACTGTGCA
 GAAAGGCAGGTAGGCCGCCAGAGTGCCTTCCAGTACCTCAAAGCACACCCGGCCAGGTCCCAGCTACAG
 GCACTGTCCAAGGAAGAGTACCAGCCATGAGGCAACAACGGGCAAGCAGGGGTGGCTACGCCGGCTGG
 AAGCATGGGCCCTCTGAGATTTTCTGGTGTGCTCAACAACCTCTGAGCAACTAAGTCTGTGGTTCTT
 AGTCTTTCTGTCCATCTCATGTGACAGCTGTCGTGAGACTGATGCACAGACTGCACTTGTAAATTTAA
 ACATATCTGGTTTGGTGCAGTTTGTCTTTGTGCCTTTACTTACTGTCTCTGCCTCATGATGCTGATTG
 CCACAGGGCCCCACGATGACAAAACAAGATTCTCTCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_173385

Insert Size:

3753 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_173385.2](#), [NP_775561.1](#)

RefSeq Size: 4153 bp

RefSeq ORF: 3753 bp

Locus ID: 214425

UniProt ID: [Q66K08](#)

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]