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Product datasheet for SC117885

CILP (NM_003613) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CILP (NM_003613) Human Untagged Clone
Tag:	Tag Free
Symbol:	CILP
Synonyms:	CILP-1; HsT18872
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117885 sequence for NM_003613 edited (data generated by NextGen Sequencing)

ATGGTGGGGACCAAGGCCTGGGTGTTCTCCTTCCTGGTCCTGGAAGTCACATCTGTGTTG
GGGAGACAGACGATGCTCACCCAGTCAGTAAGAAGAGTCCAGCCTGGGAAGAAGAACCCC
AGCATCTTTGCCAAGCCTGCCGACACCCTGGAGAGCCCTGGTGAGTGGACAACATGGTTC
AACATCGACTACCCAGGCGGGAAGGGCGACTATGAGCGGCTGGACGCCATTCGCTTCTAC
TATGGGGACCGTGTATGTGCCCGTCCCCTGCGGCTAGAGGCTCGGACCACTGACTGGACA
CCTGCGGGCAGCACTGGCCAGGTGGTCCATGGTAGTCCCCGTGAGGGTTTCTGGTGCCTC
AACAGGGAGCAGCGGCCTGGCCAGAACTGCTCTAATTACACCGTACGCTTCCTCTGCCCA
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TGCTCAGCTGCCTGTGGTCAGACTGGGGTCCAGACTCGCACACGCATTTGCTTGGCAGAG
ATGGTGTCGCTGTGCAGTGAGGCCAGCGAAGAGGGTCAGCACTGCATGGGCCAGGACTGT
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GCAGAGTTTGTGAGGGCAGAGACTCCATACATGGTGATGAACCCTGAGACAAAAGCACGG
AGAGCTGGGCAGAGCGTGTCTCTGTGCTGTAAGGCCACAGGGAAGCCCAGGCCAGACAAG
TATTTTTGGTATCATAATGACACATTGCTGGATCCTTCCCTCTACAAGCATGAGAGCAAG
CTGGTGCTGAGGAAACTGCAGCAGCACCAGGCTGGGGAGTACTTTTGCAAGGCCCAGAGT
GATGCTGGGGCTGTGAAGTCCAAGGTTGCCCAGCTGATTGTCATAGCATCTGATGAGACT
CCTTGCAACCCAGTTCCTGAGAGCTATCTTATCCGGCTGCCCCATGATTGCTTTCAGAAT
GCCACCAACTCCTTCTACTATGACGTGGGACGCTGCCCTGTTAAGACTTGTGCAGGGCAG
CAGGATAATGGGATCAGGTGCCGTGATGCTGTGCAGAACTGCTGTGGCATCTCCAAGACA
GAGGAAAGGGAGATCCAGTGCAGTGGCTACACGCTACCCACCAAGGTGGCCAAGGAGTGC
AGCTGCCAGCGGTGTACGGAAACTCGGAGCATCGTGCGGGGCCGTGTCAGTGCTGCTGAC

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AATGGGGAGCCCATGCGCTTTGGCCATGTGTACATGGGGAACAGCCGTGTAAGCATGACT
GGCTACAAGGGCACTTTCACCCTCCATGTCCCCCAGGACACTGAGAGGCTGGTGCTCACA
TTTGTGGACAGGCTGCAGAAGTTTGTCAACACCACCAAAGTGCTACCTTTCAACAAGAAG
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GATGGCTCCTCCAGAATCATGAAGAGCAATGTGGGAGTAGCCCTCACCTTCAACTGTGTA
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CCTGCTGCAGGCACTGTCCAAGGAAGAGTGCCCTCGAGGAGGCAGCAGCGAGCGAGCAGG
GGTGGCCAGCGCCAGAGTGGAGTGGTGGCCTCTCTGAGATTTCCTAGAGTTGCTCAACAG
CCCCTGATCAACTAA

Clone variation with respect to NM_003613.3
2936 a=>g;3496 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003613 unedited
GGTCAGGATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCAGCTGAGG
AGTCCTGCTCAAAACACGGTCACTGGATCTGAGAACTTCCCAGGGGACCGCATTCCAGAG
TCAGTGACTCTGTGAAGCACCCACATCTACCTCTTGCCACGTTCCCACGGGCTTGGGGGA
AAGATGGTGGGGACCAAGGCCTGGGTGTTCTCCTTCCTGGTCCTGGAAGTCACATCTGTG
TTGGGGAGACAGACGATGCTCACCCAGTCAGTAAGAAGAGTCCAGCCTGGGAAGAAGAAC
CCCAGCATCTTTGCCAAGCCTGCCGACACCCTGGAGAGCCCTGGTGAGTGGACAACATGG
TTCAACATCGACTACCCAGGCGGGAAGGGCGACTATGAGCGGCTGGACGCCATTCGCTTC
TACTATGGGGACCGTGTATGTGCCCGTCCCCTGCGGCTAGAGGCTCGGACCACTGACTGG
ACACCTGCGGGCAGCACTGGCCAGGTGGTCCATGGTAGTCCCCGTGAGGGTTTCTGGTGC
CTCAACAGGGAGCAGCGGCCTGGCCAGAACTGCTCTAATTACACCGTACGCTTCCTCTGC
CCACCAGGATCCCTGCGCCGAGACACAGAGCGCATCTGGAGCCCATGGTCTCCCTGGAGC
AAGTGCTCAGCTGCCTGTGGTCAGACTGGGGTCCAGACTCGCACACGCATTTGCTTGGCA
GAGATGGTGTCGCTGTGCAGTGAGGCCAGCGAAGAGGGTCAGCACTGCATGGGCCAGGAC
TGTACAGCCTGTGACCTGACCTGCCCAATGGGCCANGTGAATGCTGACTGTGATGCCTGC
ATGTGCCANGACTTCATGCTTCATGGGGCTGTCTCCTTTNCCGNAGTGCCCCAGCTCAGG
GGCTGCTATCTACTCCTGACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003613 unedited
GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTACAGAGTATGCATTT
ATTGACATCTGCCCTGGGCTACACTGGGTTTCTAGCAAGAACAAAAGCGAATGCAAAGGG
AAATGTACAAATACAGTTAGCAACCTGGTGTAATTGGGGATACCAGGAGATGTTCTTTCC
AGACTTGGTAGAGGAACTATGATCACCCTATATTTAATAGCTTAACTTTGAATGTGCACT
AAAATTCCAAATTTAGCAAAGAAATAAATAAGTTATTTACATTTCAAGTAAAAGTATTGG
GTTTTATTTCTTTATTTCACCACCATTTATATGTATGAACTATGATCAAGGCTTGCCTAT
GTCCTGTGGAGCAAGGCCAAGAAATATGCTTTATATTGGTTATTTGATCTTCAGCATCAG
ATTATCACTATTGCAGAGGTGGGCAAAACCATGCAAAAAGAAGAGGAAGTATATTTGCAT
TAATGGCATTAAATGAAGTACAGTTGAAGCTGCAGAGTTTTACCAGTGGCCAATTTCTTG
TGTTTCATTAAAAGAACATGTTCACAAAGGGGCCTTATTGTGCCATTGTGGGGGGCACGT
GCCATTCTTTGCCTGGGACAAAGTAAGTAAAGGCTCGAACAACCATCAGTCATATCCCGA
AAACAAAATGCCTAAATAAACCAAGGGACAGTTGGCCTTACTTTCACAAGGGTTGTTATG
GAATGAGGGGCGACAAGGCGCATTACCCCACACCTATTGCTCACGCGCGGCTGGTCACTT
TAGGAATTCTATAAGGGCACCTTNCCTCTGGCCCGTGCACCCCCGCTCCTACACTCCGCT
TTCAACACGGCTTCCCCCTCATCTCTCTCCTAAACGGCCGCCGCGAGCGCCTTCCTGTTC
TTAACGACTCTCTCGCCCACTCCTCTCCCCTTTTGGACTAGGCCTCCTCTCACTCTCTCC
ATTTCCTGCCTACCCGTG

Restriction Sites: NotI-NotI

ACCN: NM_003613

Insert Size: 4760 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_003613.2, NP_003604.2
RefSeq Size:	4436 bp
RefSeq ORF:	3555 bp
Locus ID:	8483
UniProt ID:	O75339
Cytogenetics:	15q22.31
Domains:	tsp_1, ig, IGc2, IG
Protein Families:	Druggable Genome, Phosphatase, Secreted Protein
Gene Summary:	Major alterations in the composition of the cartilage extracellular matrix occur in joint disease, such as osteoarthrosis. This gene encodes the cartilage intermediate layer protein (CILP), which increases in early osteoarthrosis cartilage. The encoded protein was thought to encode a protein precursor for two different proteins; an N-terminal CILP and a C-terminal homolog of NTPPHase, however, later studies identified no nucleotide pyrophosphatase phosphodiesterase (NPP) activity. The full-length and the N-terminal domain of this protein was shown to function as an IGF-1 antagonist. An allelic variant of this gene has been associated with lumbar disc disease. [provided by RefSeq, Sep 2010]