

Product datasheet for **RG207801**

CILP (NM_003613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CILP (NM_003613) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CILP
Synonyms:	CILP-1; HsT18872
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207801 representing NM_003613 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGGACCAAGGCCTGGGTGTTCTCCTTCTGGTCTGGAAGTCACATCTGTGTTGGGAGACAGA
CGATGCTACCCAGTCAGTAAGAAGAGTCCAGCCTGGGAAGAAGAACCCAGCATCTTTGCCAAGCCTGC
CGACACCTGGAGAGCCCTGGTGTGAGTGGACAACATGGTTCAACATCGACTACCCAGGCGGAAGGGCGAC
TATGAGCGGTGGACGCCATTTCGTTCTACTATGGGGACCGTGTATGTGCCCGTCCCCTGCGGCTAGAGG
CTCGGACCACTGACTGGACACCTGCGGGCAGCACTGGCCAGGTGGTCCATGGTAGTCCCCGTGAGGGTTT
CTGGTGCCTCAACAGGGAGCAGCGGCCTGGCCAGAAGTCTAATTACACCGTACGCTTCTCTGCCCA
CCAGGATCCCTGCGCCGAGACACAGAGCGCATCTGGAGCCATGGTCTCCCTGGAGCAAGTGCTCAGCTG
CCTGTGGTCCAGACTGGGGTCCAGACTCGCACACGCATTTGCTTGGCAGAGATGGTGTGCTGTGCAGTGA
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GAGGTGCCCCAGCCTCAGGGGTGCTATCTACCTCCTGACCAAGACGCCGAAGTGTGACCCAGACAGA
CAGTGATGGGAGATCCGAATCCCTGGCTTGTGCCCTGATGGCAAAGCATCCTGAAGATCACAAGGTC
AAGTTTGGCCCCATTGTACTACAATGCCAAGACTAGCCTGAAGGCAGCCACCATCAAGGCAGAGTTTG
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ACTTTTGAAGGCCAGAGTGTGCTGGGGCTGTGAAGTCCAAGTTGCCAGCTGATTGTCATAGCATC
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ATCGTGCGGGGCCGTGTCAAGTGTGCTGACAATGGGGAGCCCATGCGCTTTGGCCATGTGTACATGGGGA
ACAGCCGTGTAAGCATGACTGGCTACAAGGGCACTTTCACCTCCATGTCCCCCAGGACACTGAGAGGCT
GGTGCTCACATTTGTGGACAGGCTGCAGAAGTTTGTCAACACCACCAAAGTGCTACCTTTCAACAAGAAG
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CCTGTCTGGAGTTCAAGTGCAGTGGGATGCTCTATGATCAGGACCGTGTGGACCGCACCCCTGGTGAAGGT
CATCCCCCAGGGCAGCTGCCGTGAGCCAGTGTGAACCCATGCTGCATGAGTACCTGGTCAACCACTTG
CCACTTGCAAGTCAACAACGACACCAAGTGTGATACCCATGCTGGCACCCCTTGGACCACTGGGCCACA
ATGGCATCTACACTGTCACTGACCAGGACCCTCGCACGGCCAAGGAGATCGCGCTCGGCCGGTGTGTTGA
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GAGAGGCAAGTAGGCCGCCAGAGTGCCTTCCAGTACCTCAAAGCACCCAGCCAGTCCCCTGCTGCAG
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AGTGGTGGCCTCTGAGATTTCTAGAGTTGCTCAACAGCCCCTGATCAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207801 representing NM_003613
 Red=Cloning site Green=Tags(s)

MVGTKAWVFSFLVLEVTSVLGRQTMLTQSVRRVQPGKKNPSIFAKPADTLESPGEWTTWFNIDYPPGGKD
 YERLDAIRFYGDRVCARPLRLEARTTDWTPAGSTGQVVHGSREGFWCLNREQRPGQNCNRYTVRFLCP
 PGSRRDTERIWSWPSPWSKCSAACGQGTGVQTRTRICLAEMVSLCSEASEEGQHCMDQCTACDLTCMPG
 QVNADCDACMCQDFMLHGAVSLPGGAPASGAAYLLTKTPKLLTQTDSDGRFRIPGLCPDGKSILKITKV
 KFAPIVLTPKTSLSKAATIKAEFVRAETPYMVMNPETKARRAGQSVSLCCKATGKPRPKYFWYHNDTLL
 DPSLYKHESKLVLRKLQQHQAGEYFCKAQSDAGAVKSKVAQLIVIASDETPCNPVPEYSLIRLPHDCFQN
 ATNSFYDVGRCVPKTCAGQQDNGIRCRDAVQNCISKEEEREIQCSGYLPTKVAKECSCQRCTETRS
 IVRGRVSAADNGEPMRFHGVYMGNSRVSMGTGKGTFTLHVPQDTERLVLTFVDRLQKQVNTTKVLPFNK
 GSAVFHEIKMLRRKEPITLEAMETNIIPLGEVGEDPMAELEIPSRSFYRQNGEPIYIKVKASVTFDPR
 NISTATAAQTDLNFINDEGDTFPLRITYGMFSVDFRDEVTSEPLNAGKVKVHLDSTQVKMPEHISTVKLWS
 LNPDTGLWEEEGDFKFENQRRNKREDRTFLVGNLEIRERRLFNLDVPESRRCFVKVRAYSERFLPSEIQI
 QGVVISVINLEPRTGFLSNPRAWGRFDSVITGPNACVPAFCDDQSPDAYSAVYVLAASLAGEELQAVESSP
 KFNPNIAIGVPQPYLNKLNRYRRTDHEPRVKKTAQIISMAKPRPNSAESNGPIYAFENLRACEEAPPSAA
 HFRFYQIEGDRYDNTVPFNEDDPMSWTEYDLAWWPKPMEFRACYIKVKIYVPLEVNVRSRNMGGTHRRT
 VGKLYGIRDVSTRDRDQPNVSAACLEFKCSGMLYDQDRVDRTLVKVIPQGCRRASVNPMLHEYLVNHL
 PLAVNNDTSEYTMLAPLDPLGHNYGIYVTDQDPRTAKEIALGRCFDGTSDGSSRIMKSNVGVALTFNCV
 ERQVGRQSAFYLQSTPAQSPAAGTVQGRVPSRRQQRASRGGQRQSGVVASLRFPRVAQQPLIN

TRTRPLE - GFP Tag - V

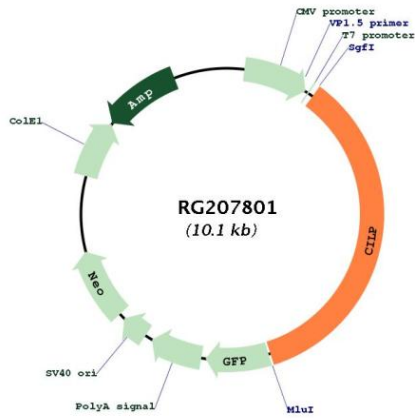
Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: NM_003613
 ORF Size: 3552 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_003613.2, NP_003604.2</p>
RefSeq Size:	<p>4436 bp</p>
RefSeq ORF:	<p>3555 bp</p>
Locus ID:	<p>8483</p>
UniProt ID:	<p>O75339</p>
Cytogenetics:	<p>15q22.31</p>
Domains:	<p>tsp_1, ig, IGc2, IG</p>
Protein Families:	<p>Druggable Genome, Phosphatase, Secreted Protein</p>
Gene Summary:	<p>Major alterations in the composition of the cartilage extracellular matrix occur in joint disease, such as osteoarthritis. This gene encodes the cartilage intermediate layer protein (CILP), which increases in early osteoarthritis 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]</p>

Product images:



Circular map for RG207801