

Product datasheet for **SC119301**

Placental lactogen (CSH1) (NM_001317) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Placental lactogen (CSH1) (NM_001317) Human Untagged Clone
Tag:	Tag Free
Symbol:	Placental lactogen
Synonyms:	CS-1; CSA; CSMT; GHB3; hCS-1; hCS-A; PL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119301 sequence for NM_001317 edited (data generated by NextGen Sequencing)

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ATGGCTCCAGGCTCCCGACGTCCTGCTCCTGGCTTTTGCCTGCTCTGCCTGCCCTGG  
CTTCAAGAGGCTGGTGCCGTCCAAACCGTTCCGTTATCCAGGCTTTTGGACCACGTATG  
CTCCAAGCCCATCGCGCGCACCAAGCTGGCCATTGACACCTACCAGGAGTTTGAAGAAACC  
TATATCCCAAAGGACCAGAAGTATTCACTTCTGCATGACTCCCAGACCTCCTTCTGCTTC  
TCAGACTCTATTCCGACACCCCTCCAACATGGAGGAAACGCAACAGAAATCCAATCTAGAG  
CTGCTCCGCATCTCCCTGCTGCTCATCGAGTCGTGGCTGGAGCCCGTGCGGTTCCCTCAGG  
AGTATGTTCCGAACAACCTGGTGTATGACACCTCGGACAGCGATGACTATCACCTCCTA  
AAGGACCTAGAGGAAGGCATCCAACCGTGATGGGGAGGCTGGAAGACGGCAGCCGCCGG  
ACTGGGCAGATCCTCAAGCAGACCTACAGCAAGTTTGACACAACTCGCACAAACCATGAC  
GCACTGCTCAAGAACTACGGGCTGCTCTACTGCTTCAGGAAGGACATGGACAAGGTCGAG  
ACATTCCTGCGCATGGTGCAGTGCCGCTCTGTGGAGGGCAGCTGTGGCTTCTAG
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Clone variation with respect to NM_001317.5
93 c=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001317 unedited
 GGGGGTTTCANGGCATTTTGTNAATACGNACTTCACTATAGGGNCGCCGCGCAATTNN
 CGGCACCAGCCCGAACCACTCAGGGTCTGTGGACAGCTCACCTAGTGGCAATGGCTCCA
 GGCTCCCGGACGTCCCTGCTCCTGGCTTTTGCCTGCTCTGCCTGCCCTGGCTTCAAGAG
 GCTGGTCCCGTCCAAACCGTTCGGTTATCCAGGCTTTTGACCACGCTATGCTCCAAGCC
 CATCGCGCCAGCAGCTGGCCATTGACACCTACCAGGAGTTTGAAGAAACCTATATCCCA
 AAGGACCAGAAGTATTCATTCTGCATGACTCCAGACCTCCTTCTGCTTCTCAGACTCT
 ATTCGACACCCCTCCAACATGGAGGAAACGCAACAGAAATCCAATCTAGAGCTGCTCCGC
 ATCTCCCTGCTGCTCATCGAGTCGTGGTGGAGCCCGTGCGGTTCCTCAGGAGTATGTTT
 GCCAACAACTGGTGTATGACACCTCGGACAGCGATGACTATCACCTCCTAAAGGACCTA
 GAGGAAGGCATCCAACGCTGATGGGGAGGCTGGAAGACGGCAGCCGCCGACTGGGCGAG
 ATCCTCAAGCAGACCTACAGCAAGTTTGACACANACTCGCACAACCATGACGCACTGCTC
 AAGAACTACGGGCTGCTCTACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCCTG
 CGCATGGTGCAGTCCGCTCTGTGGAGGGCAGCTGTGGCTTCTANGTGCCCGAGTAGCAT
 CCTGTGACCCCTCCAGTGCCTCTCCTGGCCCTGAAGTGCCACTCCAGTGCCACCAG
 CCTGTGCTAATAAAATTAAGTTGATCATTTNNNAAAAAANNAANNAAAAAAAAAAAAAA
 AACCGCCGAAGTATTCCTTTAGATTGCGGCCGCGGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001317 unedited
 GGACAACTATGGTNCGTGTCACCCCTTTAGAGTACTAGTCTAGCGTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTAAATGATACAACCTAATTTTATTAGGACAAGGCTGGTGG
 GCACTGGAGTGGACCTCAGGGCCAGGAGGCACTGGGGAGGGGTACAGGATGCTAC
 TCGGGCACCTAGAAGCCACAGCTGCCCTCCACAGAGCGGCACTGCACCATGCGCAGGAAT
 GTCTCGACCTTGCCATGTCTTCTGAAGCAGTAAAGCAGCCCGTAGTCTTGAGCAGT
 GCGTCATGGTTGTGCGAGTTTGTGTCAAACCTTGCTGTAGGTCTGCTTGAGGATCTGCCCA
 GTCCGGCGGCTGCCGTCTCCAGCCTCCCATCAGCGTTTGGATGCCTTCTCTAGGTCC
 TTTAGGAGGTGATAGTATCGCTGTCCGAGGTGTATACACCAGGTTGTTGGCGAACATA
 CTCCTGAGGAACCGCACGGGCTCCAGCCAGCACTCGATGAGCAGCAGGGAGATGCGGAGC
 AGCTCTAGATTGGATTTCTGTTGCGTTTCTCCATGTTGGAGGGTGTGCGAATAGAGTCT
 GAGAAGCANAAGGAGGTCTGGGAGTCAATGCAGGAATGAATACTTCTGGTCTTTGGGATA
 TAGGTTTTCTTCAAACCTCTGGTAAGTGTCAATGGCCANCTGGTGCAGCGATGGGCTTGG
 AGCATANCGTGGTCAAAAAGCCTGGATAACGGAACGTTTTGGACGGCACCAAGCCTTTGA
 AGCCAGGGCAGCANAGCAGGGCAAAACAGGAGCAGGGACGTCCGGGAGCCTGNAGCCAT
 TGCCACTAGGTGAGCTGTCCACAGGACCCTGATGGGTCCGGGCTGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_001317

Insert Size:

900 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:	<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:	NM_001317.3 , NP_001308.1
RefSeq Size:	879 bp
RefSeq ORF:	654 bp
Locus ID:	1442
UniProt ID:	P01243
Cytogenetics:	17q23.3
Domains:	hormone
Protein Families:	Druggable Genome
Protein Pathways:	Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones and plays an important role in growth control. The gene is located at the growth hormone locus on chromosome 17 along with four other related genes in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. Although the five genes share a remarkably high degree of sequence identity, they are expressed selectively in different tissues. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed mainly in the placenta and utilizes multiple transcription initiation sites. Expression of the identical mature proteins for chorionic somatomammotropin hormones 1 and 2 is upregulated during development, although the ratio of 1 to 2 increases by term. Mutations in this gene result in placental lactogen deficiency and Silver-Russell syndrome. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) utilizes all five exons, resulting in the most abundant full-length isoform (1).</p>