

Product datasheet for **SC112456**

Placental lactogen (CSH1) (NM_022640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Placental lactogen (CSH1) (NM_022640) Human Untagged Clone
Tag:	Tag Free
Symbol:	Placental lactogen
Synonyms:	CSA; CSH2; CSMT; FLJ75407; PL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022640, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCCAGGCTCCCGGACGTCCCTGCTCCTGGCTTTTGCCCTGCTCTGCCTGCCCTGGCTTCAAGAGG
CTGGTGCCGTCCAAACCGTTCCGTTATCCAGGCTTTTTGACCACGCTATGCTCCAAGCCCATCGCGCGCA
CCAGCTGGCCATTGACACCTACCAGGAGTTTGAAGAAACCTATATCCCAAAGGACCAGAAGTATTCATTC
CTGCATGACTCCCAGACCTCCTTCTGCTTCTCAGACTCTATTCCGACACCCTCCAACATGGAGGAAACGC
AACAGAAATCCAATCTAGAGCTGCTCCGCATCTCCCTGCTGCTCATCGAGTCGTGGCTGGAGCCCGTGCG
GTTCTCAGGAGTATGTTCCGCAACAACCTGGTGTATGACACCTCGGACAGCGATGACTATCACCTCCTA
AAGGACCTAGAGGAAGGCATCCAACGCTGATGGGGGTGAGGGTGGCGCCAGGGGTACCAATCCTGGAA
CCCCACTGGCTTCGAGGGCTGGGGGAGAGAAATACTGCTGCCCTCTTTTTAGCAGTAAGGCGCTGACCCA
AGAGAACTCACCTTATTCTTCTTTTCGCCTGGTGAATCCTCCAGGCCCTTCTCTACACCTGAAGGGGAG
GGAGGAAAATGGATAAATGAGAGAGGGAGGGAACAGTGCCCAAGCGCTTGGCCTCTCCTTCTCTTCTTC
ACTTTGCAGAGGCTGGAAGACGGCAGCCGCCGACTGGGCAGATCCTCAAGCAGACCTACAGCAAGTTTG
A
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022640 unedited NNGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGCCCAACT CCCGAACCACTCAGGTCCTGTGGACAGCTCACCTAGTGGCAATGGCTCCAGGCTCCCGGA CGTCCCTGCTCCTGGCTTTTGCCTGCTCTGCCTGCCCTGGCTTCAAGAGGCTGGTGCCG TCCAAACCGTTCCGTTATCCAGGCTTTTGACCACGCTATGCTCCAAGCCCATCGCGCGC ACCAGCTGGCCATTGACACCTACCAGGAGTTGAAGAAACCTATATCCCAAAGGACCAGA AGTATTCATTCTGCATGACTCCCAGACCTCCTTCTGCTTCTCAGACTCTATTCCGACAC CCTCCAACATGGAGGAAACGCAACAGAAATCCAATCTAGAGCTGCTCCGATCTCCCTGC TGCTCATCGAGTCGTGGCTGGAGCCCGTGCAGGTTCTCAGGAGTATGTTGCGCAACAACC TGGTGTATGACACCTCGGACAGCGATGACTATCACCTCCTAAAGGACCTAGAGGAAGGCA TCCAAACGCTGATGGGGGTGAGGGTGGCGCCAGGGGTACCAATCCTGGAACCCCACTGG CTTCGAGGGCTGGGGGAGAGAAATACTGCTGCCCTCTTTTATGACAGTAAGGCGCTGACCC AAGAGAACTCACCTTATTCTTCATTTTCGCTGGTGAATCCTCCAGGCCTTCTCTCCCC CTGAAGGGAGGGAGGAAATGGATAAATGAGAGAGGGAGGNAACAGTGCCCAAGCGCTTG GCCTCTCCTTCTTNTTCACTNTGCANAGGCTGGAAGACGGCAGCCCGGACTGGGC AGATNCCTCAGCAGACCTACAGNNCAGTTGACACANACTCGCACACCATGACGCACTGC TCAAGACTACGGNCTGCTCTACTGCTTNCAGAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_022640
Insert Size:	4700 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_022640.2 , NP_072166.1
RefSeq Size:	1132 bp
RefSeq ORF:	771 bp
Locus ID:	1442
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome
Protein Pathways:	Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary:

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]

Transcript Variant: This variant (2) contains intron D and encodes the longest isoform (2) which diverges from all other CS isoforms in the carboxy-terminus due to a frameshift. Isoform 2 has a putative transmembrane domain, suggesting a non-secreted product.