

## Product datasheet for **SC109123**

### CSHL1 (NM\_001318) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CSHL1 (NM_001318) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSHL1
Synonyms:	CS-5; CSHP1; CSL; GHB4; hCS-L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109123 sequence for NM_001318 edited (data generated by NextGen Sequencing)

```
ATGGAGGAAACGCAGCAGAAATCCAACCTTAGAGCTGCTCCACATCTCCCTGCTGCTCATC
GAGTCGCGGCTGGAGCCCGTTCCTCAGGAGTACCTTACCAACAACCTGGTGTAT
GACACCTCGGACAGCGATGACTATCACCTCTAAAGGACCTAGAGGAAGGCATCCAAATG
CTGATGGGGAGGCTGGAAGACGGCAGCCACCTGACTGGGCAGACCCTCAAGCAGACCTAC
AGCAAGTTTGACACAACTCGCACAAACCATGACGCACTGCTCAAGAACTACGGGCTGCTC
CACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCTGCGCATGGTGCAGTGCCGC
TCTGTGGAGGGCAGCTGTGGCTTCTAG
```

Clone variation with respect to NM\_001318.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001318 unedited  
 NNTTGTGCGAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACCAGCACCCCTC  
 GGGTCCTGTGGACAGCTCACCTAGCGGCAATGGCTGCAGGCTCCCGGACGTCCCTGCTCC  
 TGGCTTTTGCCTGCTCTGCCTGCCCTGGCTTCAAGAGGCTGACTCTATCCGACATCCT  
 CCAACATGGAGGAAACGCAGCAGAAATCCAACCTAGAGCTGCTCCACATCCTCCCTGCTGC  
 TCATCGAGTCGCGGCTGGAGCCCGTGCAGGTTCCCTCAGGAGTACCTTCACCAACAACCTGG  
 TGATGACACCTCGGACAGCGATGACTATCACCTCCTAAAGGACCTAGAGGAAGGCATCC  
 AAATGCTGATGGGAGGCTGGAAGACGGCAGCCACCTGACTGGGAGACCCTCAAGCAGA  
 CCTACAGCAAGTTTGACACAAACTCGCACAAACCATGACGCACTGCTCAAGAACTACGGGC  
 TGCTCCACTGCTTCAAGGACATGGACAAGGTCGAGACATTCTGCGCATGGTGCAGT  
 GCCGCTGTGGAGGGCAGCTGTGGCTTCTAGGGGCCCGCTGGCATCCTGTGACCCCTC  
 CCCAGTGCCTCTCTGGCCCTGAAGGTGCCACTCCAGTGCCACCAGCCTTGCTTAATA  
 AAATTAAGTTGTATTGTTTCATCTGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCG  
 GCCGGTTCATAGCTGTTTCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCA  
 TGCTCTCTGGCCCTGNAAGTGCCACTCCAGTCCCACCAGCCTTGCTTAATAAAN  
 TAAGTTGCATCATTTGTCTGACTANGTGCCTTCTATATATATGGGTGAGNGGGGGGG  
 GTTTGGACCAAGGGNCAGTTGGAANNACACCTGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001318 unedited  
 TTTAGAGAACTTACAACCTATTTTATAAAACAAGGCTGGTGGGCACTGGAGTGGCACCT  
 TCAGGGCCAGGAGAGGCACTGGGAGGGGTACAGGATGCCACGCGGGCCCTAGAAGCC  
 ACAGCTGCCCTCCACAGAGCGGCACTGCACCATGCGCAGGAATGTCTCGACCTTGCCAT  
 GTCCTTCTGAAGCAGTGGAGCAGCCCGTAGTTCTTGAGCAGTGGTGCATGGTTGTGCGA  
 GTTTGTGTCAAACTTGCTGTAGGTCTGCTTGAGGGTCTGCCAGTCAGGTGGCTGCCGTC  
 TTCCAGCCTCCCATCAGCATTGGATGCCTTCTCTAGGTCTTTAGGAGGTGATAGTC  
 ATCGCTGTCCGAGGTGTACATACACCAGGTTGTTGGTGAAGGTAATCCTGAGGAACCGCAC  
 GGGCTCCAGCCGCGACTCGATGAGCAGCAGGGAGATGTGGAGCAGCTCTAAGTTGGATTT  
 CTGCTGCGTTTCTCCATGTTGGAGGATGTGGAATAGAGTCAGCCTCTTGAAGCCAGGG  
 CAGGCAGAGCAGGGCAAAGCCAGGAGCAGGGACGTCCGGGAGCCTGCAGCCATTGCCG  
 TAGGTGAGCTGTCCACAGGACCTGAGTGGTGCCTGGTCCGAATTCGCGGCCGCCCTAT  
 AGTGAGTCGTATTACAAAATTCTGACGGTCACTAAACGAGCTCTGCTTATATAGACCTG  
 CCACCGTACACGCCTACCGCCATTTGCGTCAACGGGGCCGGGTTATTACGACATTTTG  
 GAAATC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001318

**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\\_001318.2](#), [NP\\_001309.3](#)

**RefSeq Size:** 661 bp

**RefSeq ORF:** 387 bp

**Locus ID:** 1444

**Cytogenetics:** 17q23.3

**Domains:** hormone

**Protein Families:** Secreted Protein

**Gene Summary:** The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed 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. This particular family member is expressed in placental villi, although it was originally thought to be a pseudogene. In fact, alternative splicing suggests that the majority of the transcripts would be unable to express a secreted protein. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3), also known as CS-1-3N-4-5, has multiple differences in the coding region, but maintains the reading frame, compared to variant 1. The predicted isoform 3 has a shorter N-terminus and lacks a signal sequence, compared to isoform 1. This variant is the predominant transcript.