

## Product datasheet for **SC109124**

### CSHL1 (NM\_022580) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CSHL1 (NM_022580) 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 sequence for NM_022580 edited ATGGAGGAAACGCAGCAGAAAATCCAACCTAGAGCTGCTCCACATCTCCCTGCTGCTCATC GAGTCGCGGCTGGAGCCCGTGCCTCCTCAGGAGTACCTTACCAACAACCTGGTGTAT GACACCTCGGACAGTGATGAATATCACCTCCTAAAGGACCTAGAGGAAGGCATCCAAATG CTGATGGGGAGGCTGGAAGACGGCAGCCACCTGACTGGGCAGACCCTCAAGCAGACCTAC AGCAAGTTTGACACAACTCGCACAAACCATGACGCACTGCTCAAGAACTACGGGCTGCTC CACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCTGCGCATGGTGACAGTGCCGC TCTGTGGAGGGCAGCTGTGGCTTCTAG
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022580 unedited NNNCCAGTTCATTATTGTATACNACTCATATAGCGCGCCGNAATTCGCACCGCGCACC ACTCAGGTCCTGTGGNACAGCTCACCTAGCGGCAATGGCTGCAGACTCTATTCCGACATC CTCCAACATGGAGGAAACGCAGCAGAAAATCCAACCTAGAGCTGCTCCACATCTCCCTGCT GCTCATCGAGTCGCGGCTGGAGCCCGTGCCTCCTCAGGAGTACCTTACCAACAACCT GGTGTATGACACCTCGGACAGTGATGAATATCACCTCCTAAAGGACCTAGAGGAAGGCAT CCAAATGCTGATGGGGAGGCTGGAAGACGGCAGCCACCTGACTGGGCAGACCCTCAAGCA GACCTACAGCAAGTTTGACACAACTCGCACAAACCATGACGCACTGCTCAAGAACTACGG GCTGCTCCACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCTGCGCATGGTGCA GTGCCGCTCTGTGGAGGGCAGCTGTGGCTTCTAGGGGCCCGCTGGCATCCTGTGACCCC TCCCCAGTGCTCTCCTGGCCCTGAAGGTGCCACTCCAGTGCCACCAGCCTTGCTCTAA TAAATTAAGTTGTATTGTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA CGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCATGCC TCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGCTCTAATAAATAAATAA TGCATCATTTTGTCTGACTAGGTGTCCTTCTTATATATGTGGGGGGGGGGGGGGTNTN NTNNGGNNNNGGGGNNNTTNGGGGNNNNNNNTGTGGGGCTGGGGGGTTCCTTGG GGT



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_022580 unedited TTTAAGTTCCTTTAGNACCGCGCCGCATTCTANGATCGGTTTTTTTTTTTTTTTTTTAA ACAATACAACCTTAATTTTATTAGGACAAGGCTGGTGGGCACTGGAGTGGCACCTTCAGGG CCAGGAGAGGCACTGGGGAGGGGTCACAGGATGCCACGCGGGCCCTAGAAGCCACAGCT GCCCTCCACAGAGCGGCACTGCACCATGCGCAGGAATGTCTCGACCTGTCCATGTCCTT CCTGAAGCAGTGGAGCAGCCCGTAGTTCTTGAGCAGTGCATGTTGTGCGAGTTTGT GTCAAACCTTGCTGTAGGCTGCTTGAGGGTCTGCCAGTCAGGTGGCTGCCGCTCCAG CCTCCCCATCAGCATTTGGATGCCTTCTCTAGGTCCTTTAGGAGGTGATATTCATCACT GTCCGAGGTGTCATACACCAGGTTGTTGGTGAAGTACTCCTGAGGAACCGCACGGGCTC CAGCCGCACTCGATGAGCAGCAGGGAGATGTGGAGCAGCTCTAAGTTGGATTTCTGCTG CGTTTCTCCATGTTGGAGGATGTCGGAATAGAGTCTGCAGCCATTGCCGCTAGGTGAGC TGTCCACAGGACCCTGAGTGGTGCCTGGTCCGAATTCGCGGCCGCCCTATAGTGAGTC GTATTACAAAATCTGACGGTTCACTAACGAGCTCTGCTTATATAGACCTCCCACCGTA CACGCCTACCGCCATTTGCGTCAACGGGGCGGGTTATTACGACATTTGGGAAGTCCC GTTGATTTGGTGCCAAAACAACTCCCATTGACGTCAATGGGGTGGAGACCTGGGAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022580
<b>Insert Size:</b>	600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_022580.1</a></u> , <u><a href="#">NP_072102.1</a></u>
<b>RefSeq Size:</b>	588 bp
<b>RefSeq ORF:</b>	420 bp
<b>Locus ID:</b>	1444
<b>UniProt ID:</b>	<u><a href="#">Q14406</a></u>
<b>Cytogenetics:</b>	17q23.3
<b>Domains:</b>	hormone
<b>Protein Families:</b>	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 (4), also known as CS-1-3L-4-5, lacks an in-frame segment of the coding region, compared to variant 1. The resulting isoform (4) has a distinct N-terminus, which does not contain a signal peptide, compared to isoform 1.