

## Product datasheet for **RG223392**

### Placental lactogen (CSH2) (NM\_022645) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Placental lactogen (CSH2) (NM\_022645) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CSH2  
**Synonyms:** CS-2; CSB; GHB1; hCS-B; PL  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG223392 representing NM\_022645  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGGCTGCAGGCTCCCGGACGTCCTGCTCCTGGCTTTTGCCCTGCTCTGCCTGCCCTGGCTTCAAGAGG**  
**CTGGTGCCGTCAAACCGTTCCGTTATCCAGGCTTTTGGACCACGCTATGCTCCAAGCCCATCGCGCGCA**  
**CCAGCTGGCCATTGACACCTACCAGGAGTTTAGGCTGGAAGACGGCAGCCGCGGACTGGGCAGATCCTC**  
**AAGCAGACCTACAGCAAGTTTGACACAACTCACACAACCATGACGCACTGCTCAAGAACTACGGGCTGC**  
**TCTACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCTGCGCATGGTGCAGTGCCGCTCTGTAGA**  
**GGTAGCTGTGGCTTC**

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG223392 representing NM\_022645  
**Red**=Cloning site **Green**=Tags(s)  
  
MAAGSRTSLLAFALLCLPWLQEAGAVQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFRLEDGSRRTGQIL  
KQTYSKFDTNSHNHDALLKNYGLLYCFRKDMKVETFLRMVQCRSVEGSCGF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_022645.2</a></u> , <u><a href="#">NP_072171.1</a></u>
<b>RefSeq Size:</b>	598 bp
<b>RefSeq ORF:</b>	369 bp
<b>Locus ID:</b>	1443
<b>Cytogenetics:</b>	17q23.3
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<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. 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, while the ratio of 1 to 2 increases by term. Structural and expression differences provide avenues for developmental regulation and tissue specificity. [provided by RefSeq, Jul 2008]</p>