

Product datasheet for **RG223244**

Placental lactogen (CSH1) (NM_022640) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Placental lactogen (CSH1) (NM_022640) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Placental lactogen
Synonyms:	CSA; CSH2; CSMT; FLJ75407; PL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223244 representing NM_022640 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCAGGCTCCCGACGTCCTGCTCCTGGCTTTTGCCCTGCTCTGCCTGCCCTGGCTTCAAGAGG
CTGGTGCCGTCCAACCGTTCCGTTATCCAGGCTTTTGGACCACGCTATGCTCCAAGCCCATCGCGCGCA
CCAGCTGGCCATTGACACCTACCAGGAGTTTGAAGAACTATATCCCAAAGGACCAGAAGTATTCATTC
CTGCATGACTCCCAGACCTCCTTCTGCTTCTCAGACTCTATTCCGACACCCTCCAACATGGAGGAAACGC
AACAGAAATCCAATCTAGAGCTGCTCCGCATCTCCCTGCTGCTCATCGAGTCGTGGCTGGAGCCCGTGCG
GTTCTCAGGAGTATGTTGCGCAACAACCTGGTGTATGACACCTCGGACAGCGATGACTATCACCTCCTA
AAGGACCTAGAGGAAGGCATCCAACGCTGATGGGGTGAGGGTGGCGCCAGGGGTACCAATCCTGGAA
CCCCACTGGCTTCGAGGGCTGGGGGAGAGAAATACTGCTGCCCTTTTTAGCAGTAAGGCGCTGACCCA
AGAGAACTCACCTTATTCTTCAATTCGCTGGTGAATCCTCCAGGCTTTCTCTACACCCTGAAGGGGAG
GGAGGAAAATGGATAAATGAGAGAGGGAGGGAACAGTGCCCAAGCGCTTGGCCTCTCCTTCTTCTTCTTC
ACTTTGCAGAGGCTGGAAGACGGCAGCCGCCGACTGGGCAGATCCTCAAGCAGACCTACAGCAAGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223244 representing NM_022640
 Red=Cloning site Green=Tags(s)

MAPGSRTSLLAFALLCLPWLQEAGAVQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEETYIPKDQKYSF
 LHDSQTSFCFSDSIPTPSNMEETQQKSNLELLRISLLLIESWLEPVRFRLRSMFANNLVYDTSDDDYHLL
 KDLEEGIQTLMGVVRVAPGVTNPGTPLASRAGGEKYCCPLFSSKALTQENSPYSSFRLVNPPGLSLHPEGE
 GGKWINERGREQCPSAWPLLLFLHFAEAGRRQPPDWADPQADLQQV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022640

ORF Size: 768 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_022640.3](#)

RefSeq Size: 1132 bp

RefSeq ORF: 770 bp

Locus ID: 1442

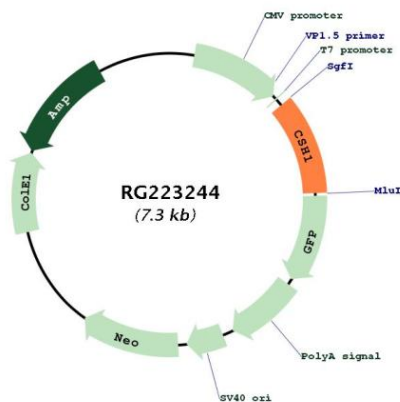
Cytogenetics: 17q23.3

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]

Product images:



Circular map for RG223244