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Product datasheet for RC215860

Placental lactogen (CSH1) (NM_001317) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Placental lactogen (CSH1) (NM_001317) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Placental lactogen
Synonyms:	CS-1; CSA; CSMT; GHB3; hCS-1; hCS-A; PL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC215860 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCAGGCTCCCGGACGTCCCTGCTCCTGGCTTTTGCCCTGCTCTGCCTGCCCTGGCTTCAAGAGG
CTGGTGCCGTCCAAACCGTTCCGTTATCCAGGCTTTTTGACCACGCTATGCTCCAAGCCCATCGCGCGCA
CCAGCTGGCCATTGACACCTACCAGGAGTTTGAAGAAACCTATATCCCAAAGGACCAGAAGTATTCATTC
CTGCATGACTCCCAGACCTCCTTCTGCTTCTCAGACTCTATTCCGACACCCTCCAACATGGAGGAAACGC
AACAGAAATCCAATCTAGAGCTGCTCCGCATCTCCCTGCTGCTCATCGAGTCGTGGCTGGAGCCCGTGCG
GTTCCTCAGGAGTATGTTCGCCAACAACCTGGTGTATGACACCTCGGACAGCGATGACTATCACCTCCTA
AAGGACCTAGAGGAAGGCATCCAAACGCTGATGGGGAGGCTGGAAGACGGCAGCCGCCGGACTGGGCAGA
TCCTCAAGCAGACCTACAGCAAGTTTGACACAAACTCGCACAACCATGACGCACTGCTCAAGAACTACGG
GCTGCTCTACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCCTGCGCATGGTGCAGTGCCGCTCT
GTGGAGGGCAGCTGTGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

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>RC215860 protein sequence
Red=Cloning site Green=Tags(s)

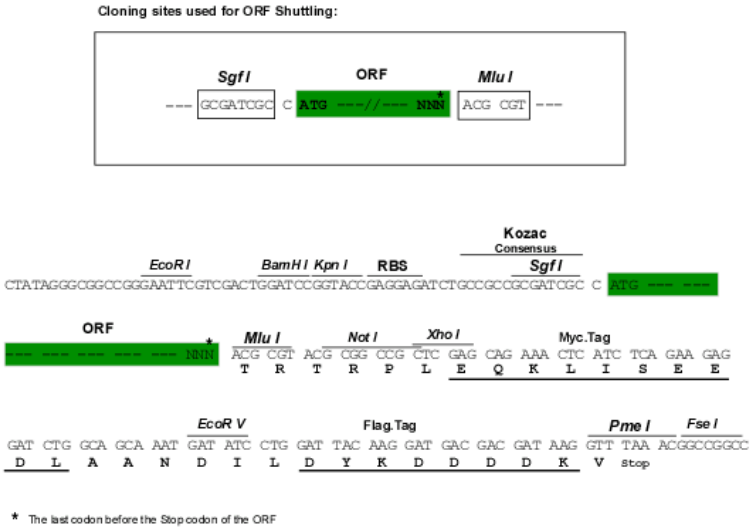
MAPGSRTSLLLAFALLCLPWLQEAGAVQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEETYIPKDQKYSF
LHDSQTSFCFSDSIPTPSNMEETQQKSNLELLRISLLLIESWLEPVRFLRSMFANNLVYDTSDSDDYHLL
KDLEEGIQTLMGRLEDGSRRTGQILKQTYSKFDTNSHNHDALLKNYGLLYCFRKDMDKVETFLRMVQCRS
VEGSCGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms: https://cdn.origene.com/chromatograms/mk6549_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001317

ORF Size: 651 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).

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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001317.4
RefSeq Size:	934 bp
RefSeq ORF:	654 bp
Locus ID:	1442
UniProt ID:	P01243
Cytogenetics:	17q23.3
Domains:	hormone
Protein Families:	Druggable Genome
Protein Pathways:	Jak-STAT signaling pathway, Neuroactive ligand-receptor interaction
MW:	25 kDa
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]

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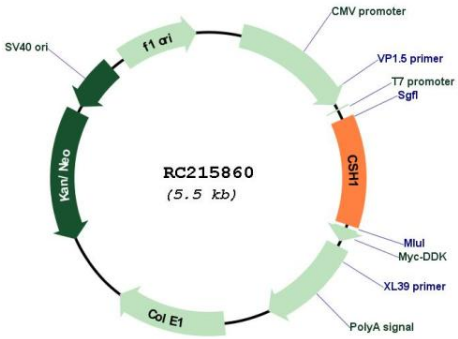
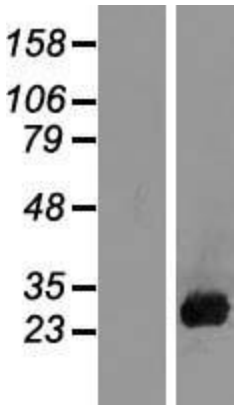
Product images:



Circular map for RC215860



Western blot validation of overexpression lysate (Cat# [LY420012]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215860 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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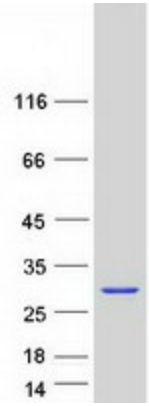

Coomassie blue staining of purified CSH1 protein (Cat# [TP315860]). The protein was produced from HEK293T cells transfected with CSH1 cDNA clone (Cat# RC215860) using MegaTran 2.0 (Cat# [TT210002]).

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