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Product datasheet for RC223392

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:	Myc-DDK
Symbol:	CSH2
Synonyms:	CS-2; CSB; GHB1; hCS-B; PL
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC223392 representing NM_022645 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGCAGGCTCCCGGACGTCCCTGCTCCTGGCTTTTGCCCTGCTCTGCCTGCCCTGGCTTCAAGAGG CTGGTGCCGTCCAAACCGTTCCGTTATCCAGGCTTTTTGACCACGCTATGCTCCAAGCCCATCGCGCGCA CCAGCTGGCCATTGACACCTACCAGGAGTTTAGGCTGGAAGACGGCAGCCGCCGGACTGGGCAGATCCTC AAGCAGACCTACAGCAAGTTTGACACAAACTCACACAACCATGACGCACTGCTCAAGAACTACGGGCTGC TCTACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCCTGCGCATGGTGCAGTGCCGCTCTGTAGA GGGTAGCTGTGGCTTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC223392 representing NM_022645 Red=Cloning site Green=Tags(s) MAAGSRTSLLLAFALLCLPWLQEAGAVQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFRLEDGSRRTGQIL KQTYSKFDTNSHNHDALLKNYGLLYCFRKDMDKVETFLRMVQCRSVEGSCGF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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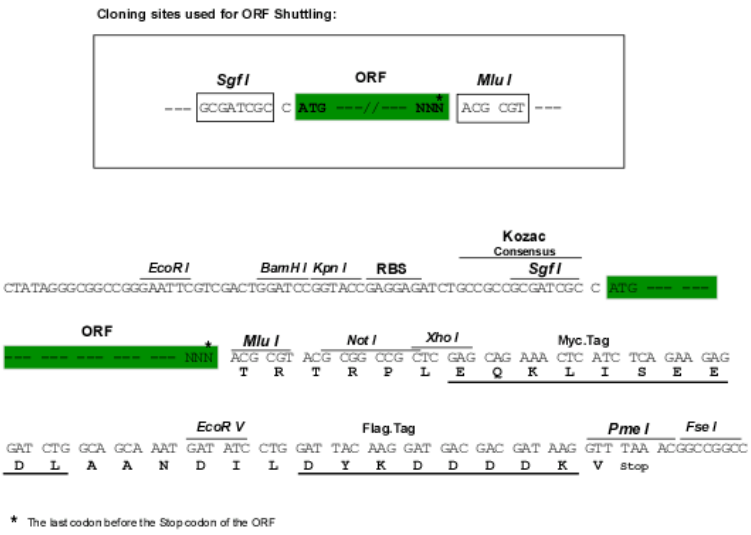
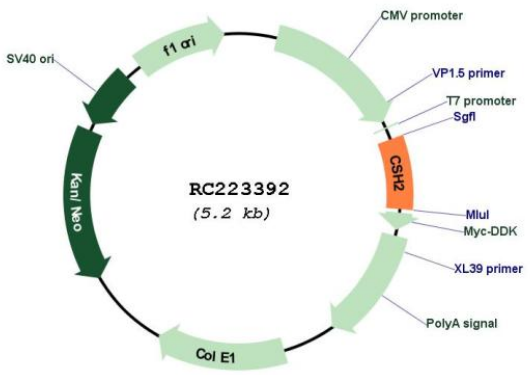
Cloning Scheme:



Plasmid Map:



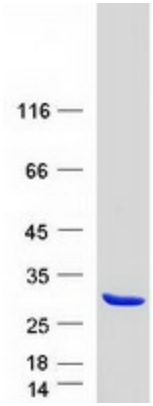
ACCN: NM_022645

ORF Size: 366 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_022645.2, NP_072171.1
RefSeq Size:	598 bp
RefSeq ORF:	369 bp
Locus ID:	1443
Cytogenetics:	17q23.3
Protein Families:	Secreted Protein
MW:	13.7 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. 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]

Product images:



Coomassie blue staining of purified CSH2 protein (Cat# [TP323392]). The protein was produced from HEK293T cells transfected with CSH2 cDNA clone (Cat# RC223392) using MegaTran 2.0 (Cat# [TT210002]).