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Product datasheet for RC211594

CSHL1 (NM_022579) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSHL1 (NM_022579) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSHL1
Synonyms:	CS-5; CSHP1; CSL; GHB4; hCS-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211594 representing NM_022579
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCAGGCTCCCGGACGTCCCTGCTCCTGGCTTTTGCCCTGCTCTGCCTGCCCTGGCTTCAAGAGG
CTGGTGCCGTCCAAACCGTTCCCTTATCCAGGCTTTTTAAAGAGGCTATGCTCCAAGCCCATCGCGCACA
CCAGCTGGCCATTGACACCTACCAGGAGTTTATAAGCTCTTGGGGAATGGAAGCCTATATCACAAAGGAA
CAGAAGTATTCATTCCTGCATGACTCCCAGACCTCCTTCTGCTTCTCAGACTCTATTCCGACATCCTCCA
ACATGGAGGAAACGCAGCAGAAATCCAACTTAGAGCTGCTCCACATCTCCCTGCTGCTCATCGAGTCGCG
GCTGGAGCCCGTGCGGTTCCTCAGGAGTACCTTCACCAACAACCTGGTGTATGACACCTCGGACAGCGAT
GACTATCACCTCCTAAAGGACCTAGAGGAAGGCATCCAAATGCTGATGGGGAGGCTGGAAGACGGCAGCC
ACCTGACTGGGCAGACCCTCAAGCAGACCTACAGCAAGTTTGACACAAACTCGCACAACCATGACGCACT
GCTCAAGAACTACGGGCTGCTCCACTGCTTCAGGAAGGACATGGACAAGGTCGAGACATTCCTGCGCATG
GTGCAGTGCCGCTCTGTGGAGGGCAGCTGTGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

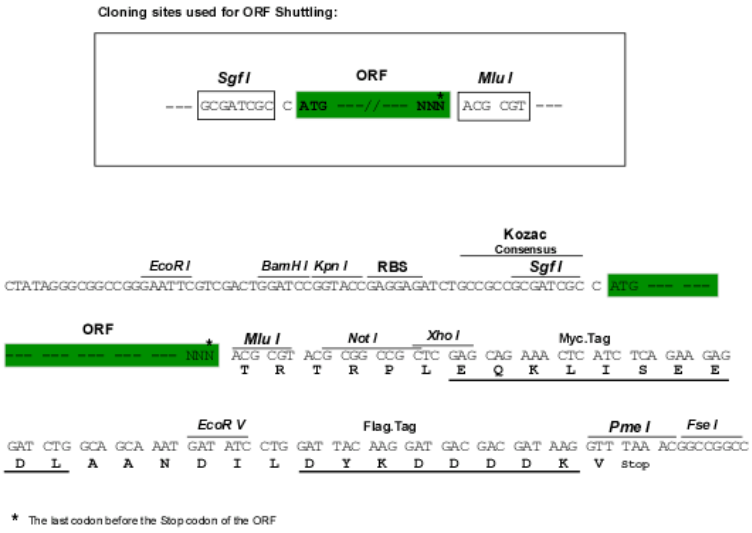
>RC211594 representing NM_022579
Red=Cloning site Green=Tags(s)

MAAGSRTSLLLAFALLCLPWLQEAGAVQTVPLSRLFKEAMLQAHRAHQLAIDTYQEFISSWGMEAYITKE
QKYSFLHDSQTSFCFSDSIPTSSNMEETQQKSNLELLHISLLLIESRLEPVRFLRSTFTNNLVYDTSDSD
DYHLLKDLEEGIQMLMGRLEDGSHLTGQTLKQTYSKFDTNSHNHDALLKNYGLLHCFRKDMDKVETFLRM
VQCRSVEGSCGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022579

ORF Size: 666 bp

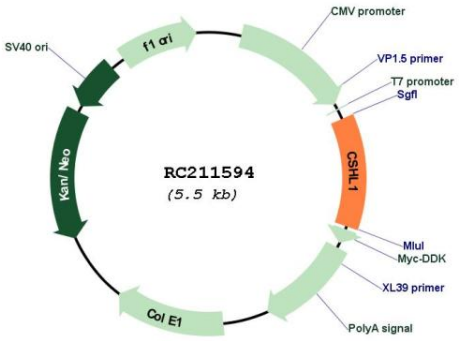
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_022579.3
RefSeq Size:	837 bp
RefSeq ORF:	669 bp
Locus ID:	1444
UniProt ID:	Q14406
Cytogenetics:	17q23.3
Protein Families:	Secreted Protein
MW:	22.7 kDa
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]

Product images:



Circular map for RC211594