

Product datasheet for RC223721

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Casein (CSN1S1) (NM_001890) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Casein (CSN1S1) (NM_001890) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Casein

Synonyms: CASA; CSN1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC223721 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223721 protein sequence

Red=Cloning site Green=Tags(s)

 ${\tt MRLLILTCLVAVALARPKLPLRYPERLQNPSESSEPIPLESREEYMNGMNRQRNILREKQTDEIKDTRNESTQNCVVAEPEKMESSISSSSEEMSLSKCAEQFCRLNEYNQLQLQAAHAQEQIRRMNENSHVQVPFQQLN}$

QLAAYPYAVWYYPQIMQYVPFPPFSDISNPTAHENYEKNNVMLQW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6440 c09.zip





Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf1 ORF Miu I

--- GCGATGGG C ATG --- NRN ACG CGT ---



		EcoR V							Flag.Tag							F	me l	Fse I
GAT	CTG	GCA	GCA	AAT	GAT	ATC	CTG	GAT	TAC	AAG	GAT	GAC	GAC	GAT	AAG	GTT	TAA	ACGGCCGGCC
D	L	A	A	N	D	I	L	D	Y	K	D	D	D	D	K	v	Stop	

^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001890

ORF Size: 555 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: <u>NM 001890.2</u>

 RefSeq Size:
 981 bp

 RefSeq ORF:
 558 bp

 Locus ID:
 1446

 UniProt ID:
 P47710



Cytogenetics: 4q13.3

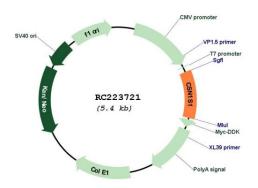
Protein Families: Secreted Protein

MW: 21.7 kDa

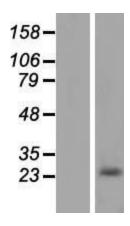
Gene Summary: Important role in the capacity of milk to transport calcium phosphate.[UniProtKB/Swiss-Prot

Function]

Product images:

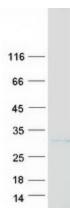


Circular map for RC223721



Western blot validation of overexpression lysate (Cat# [LY419687]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223721 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified CSN1S1 protein (Cat# [TP323721]). The protein was produced from HEK293T cells transfected with CSN1S1 cDNA clone (Cat# RC223721) using MegaTran 2.0 (Cat# [TT210002]).