

#### OriGene Technologies, Inc.

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# Product datasheet for RC223777

### beta Casein (CSN2) (NM\_001891) Human Tagged ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	beta Casein (CSN2) (NM_001891) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	beta Casein
Synonyms:	CASB; PDC213
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC223777 representing NM_001891. Blue=ORF Red=Cloning site Green=Tag(s)</pre>
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGCGCGCC ATGAAGGTCCTCATCCTTGCCTGCCGGCGCGCCTTTGCTCTGCAAGGGAGACCATAGAAAGCCTTTCA AGCAGTGAGGAATCTATTACAGAATACAAGCAGAAAGTTGAGAAGGTTAAACATGAGGACCAGCAGCAA GGAGAGGATGAACACCAGGATAAAATCTACCCCTCTTTCCAGCCACAGCCTCTGATCTATCCATTCGTT GAACCTATCCCCTATGGTTTTCTTCCACAAAACATTCTGCCTCTTGCTCAGCCTGCTGGGGGCGCGCCT GTCCCTCAGCCTGAAATAATGGAAGTCCCTAAAGCTAAAGACACTGTCTACACTAAGGGCAGAGTGATG CCTGTCCTTAAATCTCCAACGATACCCTTTTTTGACCCTCAAATCCCAAAACCTGTCTACACTAAGGGCAGAGTGATG CCTGCCTCAGCCTGGCTCTGCTCCAGCCCTTGATGCAGCAGGTCCCTCAGCCTATTCCTCAGACAAT CTGCATCTTCCTCTGCCCCGGCCTTGATGCAGCAGGTCCCTCAGCCTATTCCTCAGACATCTT GCACTTCCCCCCAGGCCCTGTGGTCTGTTCCTCAGCCCAAAGTCCTGCCTATCCCCCAGCAAGTGGTG CCCTACCCTCAGAGAGCTGTGCCTGTTCAAGCCCTTCTGCTCAACCAAGAACTTCTACTTAACCCCACC CACCAGATCTACCCTGTGACTCAGCCACTTGCCCCAGTCATAACCCCATTAGTGTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGACAATAAGGTTTAAACGGCCGGC



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**DRIGENE** beta Casein (CSN2) (NM\_001891) Human Tagged ORF Clone – RC223777

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq Size:	1078 bp
RefSeq ORF:	681 bp
Locus ID:	1447
UniProt ID:	<u>P05814</u>
Cytogenetics:	4q13.3
Protein Families:	Secreted Protein
MW:	25.4 kDa
Gene Summary:	This gene is a member of the beta casein family. There are two types of casein protein, beta (encoded by this gene) and kappa, both of which are secreted in human milk. Beta casein is the principal protein in human milk and the primary source of essential amino acids for a suckling infant. Beta and kappa casein proteins acting together form spherical micelles which bind within them important dietary minerals, such as calcium and phosphorous. In addition, the C-terminal 14 aa of the protein has antimicrobial activity, especially in preterm milk, displaying antibacterial activity against S. aureus and Y. enterocolitica. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2020]

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### **Product images:**



Circular map for RC223777









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