

Product datasheet for **SC334499**

Casein Kinase 2 beta (CSNK2B) (NM_001282385) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casein Kinase 2 beta (CSNK2B) (NM_001282385) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSNK2B
Synonyms:	CK2B; CK2N; Ckb1; Ckb2; CSK2B; G5A; POBINDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001282385, the custom clone sequence may differ by one or more nucleotides

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ATGAGCAGCTCAGAGGAGGTGTCCTGGATTTCTGGTTCTGTGGGCTCCGTGGCAATGAATTCCTCTGTG
AAGTGGATGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTATCG
ACAAGCTCTAGACATGATCTTGGACCTGGAGCCTGATGAAGAAGTGAAGACAACCCCAACCAGAGTGAC
CTGATTGAGCAGGCAGCCGAGATGCTTTATGGATTGATCCACGCCGCTACATCCTTACCAACCGTGGCA
TCGCCCAGATGTTGGAAAAGTACCAGCAAGGAGACTTTGGTTACTGTCTCGTGTGTACTGTGAGAACCA
GCCAATGCTTCCCATTGACATCCCAGGTGAAGCCATGGTGAAGCTCTACTGCCCAAGTGCATGGATGTG
TACACACCAAGTCATCAAGACACCATCACACGGATGGCGCTACTTCGGCACTGGTTTCCCTCACATGC
TCTTCATGGTGCATCCCGAGTACCGGCCAAGAGACCTGCCAACCAGTTTGTGCCAGGCTCTACGGTTT
CAAGATCCATCCGATGGCCTACCAGCTGCAGCTCCAAGCCGCCAGCAACTCAAGAGCCCAGTCAAGACG
ATTCGCTGA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001282385
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.

RefSeq: [NM_001282385.1](#), [NP_001269314.1](#)

RefSeq Size: 1140 bp

RefSeq ORF: 639 bp

Locus ID: 1460

UniProt ID: [P67870](#)

Cytogenetics: 6p21.33

Protein Families: Druggable Genome

Protein Pathways: Adherens junction, Tight junction, Wnt signaling pathway

Gene Summary: This gene encodes the beta subunit of casein kinase II, a ubiquitous protein kinase which regulates metabolic pathways, signal transduction, transcription, translation, and replication. The enzyme is composed of three subunits, alpha, alpha prime and beta, which form a tetrameric holoenzyme. The alpha and alpha prime subunits are catalytic, while the beta subunit serves regulatory functions. The enzyme localizes to the endoplasmic reticulum and the Golgi apparatus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction in the 3' coding sequence compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.