

## Product datasheet for **RG211299**

### Casein Kinase 2 beta (CSNK2B) (NM\_001320) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Casein Kinase 2 beta (CSNK2B) (NM_001320) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Casein Kinase 2 beta
Synonyms:	CK2B; CK2N; Ckb1; Ckb2; CSK2B; G5A; POBINDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211299 representing NM_001320 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAGCTCAGAGGAGGTGCTCTGGATTTCTGGTTCTGTGGGCTCCGTGGCAATGAATTCCTCTGTG  
AAGTGGATGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTATCG  
ACAAGCTCTAGACATGATCTTGGACCTGGAGCCTGATGAAGAAGTGAAGACAACCCCAACCAGAGTGAC  
CTGATTGAGCAGGAGCCGAGATGCTTTATGGATTGATCCACGCCGCTACATCCTTACCAACCGTGGCA  
TCGCCAGATGTTGAAAAGTACCAGCAAGGAGACTTTGGTTACTGTCTCGTGTGTACTGTGAGAACCA  
GCCAATGCTTCCATTGGCCTTTTCAGACATCCCAGGTGAAGCCATGGTGAAGCTCTACTGCCCAAGTGC  
ATGGATGTGTACACCCAAGTCATCAAGACACCATCACACGGATGGCGCCTACTTCGGCACTGGTTTCC  
CTCACATGCTCTTCATGGTGCATCCCGAGTACCGGCCAAGAGACCTGCCAACCAGTTTGTGCCAGGCT  
CTACGGTTTCAAGATCCATCCGATGGCCTACCAGCTGCAGCTCCAAGCCGCCAGCAACTCAAGAGCCCA  
GTCAAGACGATTTCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211299 representing NM\_001320  
 Red=Cloning site Green=Tags(s)

MSSSEEVSWISWFCGLRGNEFFCEVDEDEDYIQDKFNL TGLNEQVPHYRQALDMILDLEPDEELEDNPNQSD  
 LIEQAAEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDIPGEAMVKLYCPKC  
 MDVYTPKSSRRHHHTDGAYFGTGFPHMLFMVHPEYRPKRPAHQFVPRLYGFKIHPMAYQLQLQAASNFKSP  
 VKTIR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001320

**ORF Size:** 645 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\\_001320.7](#)

**RefSeq Size:** 1128 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 1460

**UniProt ID:** [P67870](#)

**Cytogenetics:** 6p21.33

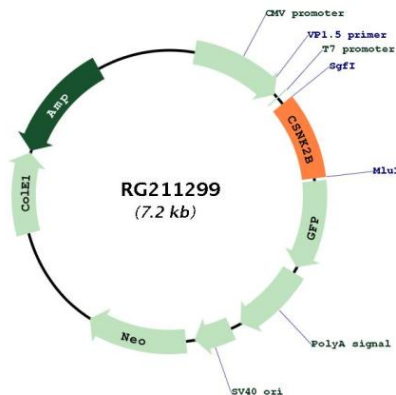
**Domains:** CK\_II\_beta

**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]

### Product images:



Circular map for RG211299