

## Product datasheet for **TP311256L**

### **CAMK2N2 (NM\_033259) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human calcium/calmodulin-dependent protein kinase II inhibitor 2 (CAMK2N2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC211256 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MSEILPYSEDKMGFRFGADPEGSDLSFSCRLQDTNSFFAGNQAQRPPKLGQIGRAKRVVIEDDRIDDLVKG MGEKPPSGV
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	8.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_150284</a>
Locus ID:	94032
UniProt ID:	<a href="#">Q96S95</a>
RefSeq Size:	1360



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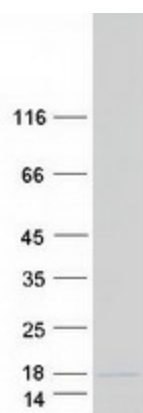
Cytogenetics: 3q27.1

RefSeq ORF: 237

Synonyms: CAM-KIIN; CAMKIIN

**Summary:** This gene encodes a protein that is highly similar to the rat CaM-KII inhibitory protein, an inhibitor of calcium/calmodulin-dependent protein kinase II (CAMKII). CAMKII regulates numerous physiological functions, including neuronal synaptic plasticity through the phosphorylation of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid-type glutamate (AMPA) receptors. Studies of the similar protein in rat suggest that this protein may function as a negative regulator of CaM-KII and may act to inhibit the phosphorylation of AMPA receptors. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified CAMK2N2 protein (Cat# [TP311256]). The protein was produced from HEK293T cells transfected with CAMK2N2 cDNA clone (Cat# [RC211256]) using MegaTran 2.0 (Cat# [TT210002]).