

## Product datasheet for TP508650

### Camkk2 (NM\_145358) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse calcium/calmodulin-dependent protein kinase kinase 2, beta (Camkk2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208650 protein sequence Red=Cloning site Green=Tags(s)

MSSCVSSQPTSDRVAPQDELGSGGGSREGQKPCEALRGLSSLSIHLGMESFIWVTECEPGRGVDLNLARD  
QPPEADGQELPLEASDPESRSPLSGRKMSLQEPSQGGPASSNSLDMNGRCICPSLSYSPASSPQSSPRM  
PRRPTVESHHSITGLQDCVQLNQYTLKDEIGKGSYGWVKLAYNENDNTYYAMKVLKSKKLIRQAGFPRR  
PPPRGARAPGGCIQPRGPIEQVYQEIAILKLDHPNVVKLVEVLDDPNEDHLYMVFELVNQGPVMEVPT  
LKPLSEDQARFYFQDLIKGIEYLHYQKIIHRDIKPSNLLVGEDGHIKIADFGVSNEFKGSDALLSNTVGT  
PAFMAPESLSETRKIFSGKALDVWAMGVTLYCFVFGQCPFMDERIMCLHSKIKSQALEFPDQPDIAEDLK  
DLITRMLDKNPESRIVVPEIKLHPWVTRHGAEPLPSEDENCTLVEVTEEEVENSVKHIPSLATVILVKTM  
IRKRSFGNPFEGSRREERSLSAPGNLLTKQGSSEDSRGPPEPAPVGEVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	59.6 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
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 after receiving vials.
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:	<u><a href="#">NP_663333</a></u>



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Locus ID: 207565

UniProt ID: [Q8C078](#)

RefSeq Size: 4860

Cytogenetics: 5 F

RefSeq ORF: 1626

Synonyms: 6330570N16Rik; AW061083; mKIAA0787

**Summary:** Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK4 and CAMK1D (By similarity). Efficiently phosphorylates 5'-AMP-activated protein kinase (AMPK) trimer, including that consisting of PRKAA1, PRKAB1 and PRKAG1. This phosphorylation is stimulated in response to Ca(2+) signals (By similarity). May play a role in neurite growth. Isoform 2 may promote neurite elongation, while isoform 1 may promote neurite branching (By similarity). May be involved in hippocampal activation of CREB1.[UniProtKB/Swiss-Prot Function]