

## Product datasheet for **TP317910**

### **CACNB1 (NM\_199247) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human calcium channel, voltage-dependent, beta 1 subunit (CACNB1), transcript variant 2, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC217910 representing NM_199247 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MVQKTSMSRGPYPSPQEIPMEVFDPSPOGKYSKRKGRFKRSDGSTSSDTSNSFVRQGSAESYTSRPSDS  
DVSLEEDREALRKEAERQALALEKAKTKPVAFVRTNVGYNPSPGDEVVQGVAITFEPKDFLHIKEY  
NNDWWIGRLVKEGCEVGFIPSPVKLDSLRLLEQKLRQNLGSSKSGDNSSSSLGDVVTGTRRPTPPASG  
NEMTNLAFELDPLELEEEEAELGEQSGSAKTSVSSVTPPPHKGKRIPIFFKTEHVPPYDVVPSMRPIILV  
GPSLKGVEVTDMMQKALFDLKHFRFDGRISITRVADISLAKRSVLNPNPSKHIIERSNTRSSLAEVQSE  
IERIFELARTLQLVALDADTINHPAQLSKTSLAPIIVYIKITSPKVLQRLIKSRGKSQSKHLNVQIAASE  
KLAQCPPEMFDIILDENQLEDACEHLAEYLEAYWKATHPPSSTPPNPLLNRMTATAALAASPAPVSNLQV  
QVLTSLRRNLGFWGGLESSQRGSVVPQEHEHAM

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	57.7 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_954855</a>
<b>Locus ID:</b>	782
<b>UniProt ID:</b>	<a href="#">Q02641</a> , <a href="#">Q02641-2</a>
<b>RefSeq Size:</b>	1847
<b>Cytogenetics:</b>	17q12
<b>RefSeq ORF:</b>	1569
<b>Synonyms:</b>	CAB1; CACNLB1; CCHLB1
<b>Summary:</b>	The protein encoded by this gene belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

**Product images:**


Coomassie blue staining of purified CACNB1 protein (Cat# TP317910). The protein was produced from HEK293T cells transfected with CACNB1 cDNA clone (Cat# [RC217910]) using MegaTran 2.0 (Cat# [TT210002]).