

Product datasheet for TP330662

CACNA2D2 (NM_001174051) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human calcium channel, voltage-dependent, alpha 2/delta subunit 2 (CACNA2D2), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC230662 representing NM_001174051 Red =Cloning site Green =Tags(s)

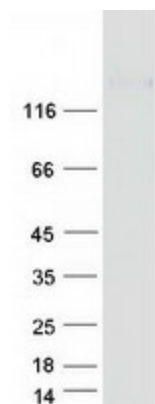
MAVPARTCGASRPGPARTARPWPGCGPHPGGTRRPTSGPPRPLWLLLPLLLAAPGASAYSFPQQHT
M
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A
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PTDIYKGSTVILNELNWTEALENVFMENRRQDPTLLWQVFGSATGVTRYYPATPWRAPKKIDLYDVRRRP
WYIQGASSPKDMVIIVDVSGSVSGLTLKLMKTSVCEMLDTLSDDDYVNVASFNEKAQPVSCFTHLVQANV
RNKKVFKEAVQGMVAKGTTGYKAGFEYAFDQLQNSNITRANCNKMIMMFTDGGEDRVQDVFKEYNWP
NRT
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DALGLGLVVTGTLPVFNLTQDGPGEKKNQLILGVMGIDVALNDIKRLTPNYTLGANGYVFAIDLNGYVLL
HPNLKPQTTFREPVTLDFLDAELEDENKEEIRRS MIDGNKGHKQIRTLVKSLDERYIDEVTRNYTWVPI
RSTNYSLGLVLPYSTFYLQANLSDQILQVKLPISKLKDFEFLPSSFESEGHVFIAPREYCKDLNASDN
NTEFLKNFIELMEKVTPDSKQCNNFLLHNLIDTGITQQLVERVWRDQDLNTYSLLAVFAATDGGITRVF
PNKAAEDWTENPEPFNASFYRRSLDNHGYVFKPPHQDALLRPLELENDTVGILVSTAVELSLGRRTLRA
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WDQ
VGRFFSEVDANLMLALYNNSFYTRKESYDYQAACAPQPPGNLGAAPRGVFPVPTVADFLNLAWWTSAAAW
S
LFQQLLYGLIYHSWFQADPAEAEAGSPETRESSVMKQTQYYFGSVNASYNAIIDCGNCSRLFHAQRLTNT
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GVLVSLQLLLLLLGLPPRPQPQLVHASRRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Tag:	C-Myc/DDK
Predicted MW:	130.3
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:	NULL or Add: Recombinant proteins 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:	NP_001167522
Locus ID:	9254
UniProt ID:	Q9NY47
Cytogenetics:	3p21.31
RefSeq ORF:	3450
Synonyms:	CACNA2D; CASVDD
Summary:	Calcium channels mediate the entry of calcium ions into the cell upon membrane polarization. This gene encodes the alpha-2/delta subunit of the voltage-dependent calcium channel complex. The complex consists of the main channel-forming subunit alpha-1, and auxiliary subunits alpha-2/delta, beta, and gamma. The auxiliary subunits function in the assembly and membrane localization of the complex, and modulate calcium currents and channel activation/inactivation kinetics. The subunit encoded by this gene undergoes post-translational cleavage to yield the extracellular alpha2 peptide and a membrane-anchored delta polypeptide. This subunit is a receptor for the antiepileptic drug, gabapentin. Mutations in this gene are associated with early infantile epileptic encephalopathy. Single nucleotide polymorphisms in this gene are correlated with increased sensitivity to opioid drugs. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]
Protein Families:	Druggable Genome, Ion Channels: Other
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

Product images:

Coomassie blue staining of purified CACNA2D2 protein (Cat# TP330662). The protein was produced from HEK293T cells transfected with CACNA2D2 cDNA clone (Cat# [RC230662]) using MegaTran 2.0 (Cat# [TT210002]).