

## Product datasheet for **TP762298**

### CACNA2D1 (NM\_000722) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human calcium channel, voltage-dependent, alpha 2/delta subunit 1 (CACNA2D1), Asp253-Leu430, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(Asp253-Leu430) of CACNA2D1
Tag:	N-His
Predicted MW:	20.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
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:	<a href="#">NP_000713</a>
Locus ID:	781
UniProt ID:	<a href="#">P54289</a>
RefSeq Size:	3822
Cytogenetics:	7q21.11
RefSeq ORF:	3273
Synonyms:	CACNA2; CACNL2A; CCHL2A; LINC01112; lncRNA-N3



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**Summary:**

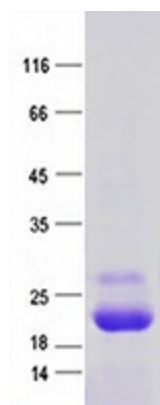
The preproprotein encoded by this gene is cleaved into multiple chains that comprise the alpha-2 and delta subunits of the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. Mutations in this gene can cause cardiac deficiencies, including Brugada syndrome and short QT syndrome. Alternate splicing results in multiple transcript variants, some of which may lack the delta subunit portion. [provided by RefSeq, Nov 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:**

Purified recombinant protein CACNA2D1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.