

# Recombinant Full Length Human CACNB1 Protein, GST-tagged

**Cat. No.** CACNB1-2961HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CACNB1 full-length ORF (NP_000714.3, 1 a.a. - 598 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 598 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</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>Molecular Mass</b>   | 92.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MVQKTSMSRGPYPSPSQEIPMEVFDPSPPQGKYSKRKGRFKRSDGSTSSDTTNSNFV<br>RQGSAESYTSRPSDSDVSLEEDREALRKEAERQALAQLEKAKTKPVAFAVRTNVGY<br>NPSPGDEVVPVQGVAITFEPKDFLHIKEKYNNDDWWIGRLVKEGCEVGFIPSPVKLDSL<br>RLLQEQLRQNRLLGSSKSGDNSSSSSLGDVVTGTRRPTPPASAKQKQKSTEHVPPY<br>DVVPSMRPIILVGPSLKGYEVTDMMQKALFDLKHFRDGRISITRVTDISLAKRSVLN<br>NPSKHIIERSNTRSSLAEVQSEIERIFELARTLQLVALDADTINHPAQLSKTSLAPIIVYI                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KITSPKVLQRLIKSRGKSQSKHLNVQIAASEKLAQCPPEMFDIILDENQLEDACEHLAE  
 YLEAYWKATHPPSSSTPPNPLLNRMTATAALAASPAPVSNLQGPYLASGDQPLERAT  
 GEHASMHEYPGELGQPPGLYPSSHPPGRAGTLRALSQRQDTFDADTPGSRNSAYTE  
 LGDSCVDMETDPSEGPGGLGDPAGGGTPPARQGSWEDEEEDYEEELTDNRNRGRN  
 KARYCAEGGGPVLGRNKNELEGWGRGVYIR

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

CACNB1 calcium channel, voltage-dependent, beta 1 subunit [ Homo sapiens ]

**Official Symbol**

CACNB1

**Synonyms**

CACNB1; calcium channel, voltage-dependent, beta 1 subunit; CACNLB1; voltage-dependent L-type calcium channel subunit beta-1; calcium channel, L type, beta 1 polypeptide; calcium channel voltage-dependent subunit beta 1; dihydropyridine-sensitive L-type, calcium channel beta-1 subunit; CAB1; CCHLB1; MGC41896;

**Gene ID**

782

**mRNA Refseq**

NM\_000723

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |           |
|----------------|-----------|
| Protein Refseq | NP_000714 |
| MIM            | 114207    |
| UniProt ID     | Q02641    |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA