

# Recombinant Full Length Human PPP2R2B Protein, GST-tagged

**Cat. No.** PPP2R2B-6847HF    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Human PPP2R2B full-length ORF ( AAH31790, 1 a.a. - 443 a.a.) recombinant protein with GST-tag at N-terminal was expressed in wheat germ.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

443 amino acids

### Description

The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a beta isoform of the regulatory subunit B55 subfamily. Defects in this gene cause autosomal dominant spinocerebellar ataxia 12 (SCA12), a disease caused by degeneration of the cerebellum, sometimes involving the brainstem and spinal cord, and in resulting in poor coordination of speech and body movements. Multiple alternatively spliced variants, which encode different isoforms, have been identified for this gene. The 5' UTR of some of these variants includes a CAG trinucleotide repeat sequence (7-28 copies) that can be expanded to 66-78 copies in cases of SCA12.

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<b>Molecular Mass</b>	74.25 kDa
<b>AA Sequence</b>	<p>MEEDIDTRKINNSFLRDHSYATEADIISTVEFNHTGELLATGDKGGRVVIFQREQESK  NQVHRRGEYNVYSTFQSHEPEFDYLSLEIEEKINKIRWLPQQNAAYFLLSTNDKTV  KLWKVSEDRKRPEGYNLKDEEGRLRDPATITTLRVPVLRPMDLMVEATPRRVFANA  HTYHINSISVNSDYETYMSADDLRINLWNFEITNQSFNIVDIKPANMEELTEVITAAEF  HPHHCNTFVYSSSKGTIRLCDMRASALCDRHTKFFEEPEDPSNRSFFSEIISISDVK  FSHSGRYIMTRDYLTVKVWDLNMENRPIETYQVHDYLRSLKCSLYENDCIFDKFECV  WNGSDSVIMTGSYNNFFRMFDRNTKRDVTLEASRENSKPRAILKPRKVCVGGKRRK  DEISVDSLDFSKKILHTAWHPSENIIA VAATNNLYIFQDKVN</p>
<b>Applications</b>	<p>Enzyme-linked Immunoabsorbent Assay  Western Blot (Recombinant protein)  Antibody Production  Protein Array</p>
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	PPP2R2B protein phosphatase 2 regulatory subunit Bbeta [ Homo sapiens (human) ]
<b>Official Symbol</b>	PPP2R2B
<b>Synonyms</b>	<p>PPP2R2B; protein phosphatase 2 regulatory subunit Bbeta; PR52B; SCA12;  B55BETA; PR55BETA; PP2ABBETA; PP2APR55B; PR2ABBETA; PR55-BETA;  PP2AB55BETA; PR2AB55BETA; PP2APR55BETA; PR2APR55BETA;  serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform;  PP2A subunit B isoform B55-beta; PP2A subunit B isoform PR55-beta; PP2A subunit</p>



B isoform R2-beta; PP2A, subunit B, B-beta isoform; protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), beta isoform; protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform; protein phosphatase 2, regulatory subunit B, beta; serine/threonine protein phosphatase 2A, 55 kDa regulatory subunit B, beta isoform; serine/threonine protein phosphatase 2A, neuronal isoform; EC 3.1.3.16

**Gene ID** [5521](#)

**mRNA Refseq** [NM\\_181674](#)

**Protein Refseq** [NP\\_858060](#)

**MIM** [604325](#)

**UniProt ID** [Q00005](#)

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