

## Recombinant Full Length Human PROM1 Protein, Isoform 2, Flag tagged

Cat. No. PROM1-46H Lot. No. (See product label)

### SPECIFICATION

**Product Overview**

Recombinant Human PROM1, transcript variant 2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.

**Species**

Human

**Source**

HEK293

**ProteinLength**

1-856 a.a.

**Description**

This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene.

**Molecular Mass**

96.1 kDa

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Concentration**

>50 ug/mL as determined by microplate BCA method

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**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [PROM1 prominin 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** PROM1

**Synonyms** prominin 1; prominin (mouse)-like 1; AC133; Stargardt disease 4 (autosomal dominant); CD133; OTTHUMP00000217744; RP41; OTTHUMP00000217745; PROML1; OTTHUMP00000217746; Antigen AC133; hProminin; Prominin-like protein 1; hematopoietic stem cell antigen; CORD12; prominin-1; MCDR2; prominin-like 1; STGD4; CD133 antigen; macular dystrophy, retinal 2; MSTP061; PROM1

**Gene ID** [8842](#)

**mRNA Refseq** [NM\\_001145847](#)

**Protein Refseq** [NP\\_001139319](#)

**MIM** [604365](#)

**UniProt ID** O43490

**Chromosome Location** 4p15.32

**Function** actinin binding; cadherin binding; protein binding

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