

# Recombinant Human PROM1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PROM1-1728H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PROM1 MS Standard C13 and N15-labeled recombinant protein (NP_001139319) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 96.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MALVLGSLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFE<br>LVHIFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKIVYYEAGIILCCVLGLLFIILMPLVG<br>YFFCMCRCCNKCGGEMHQRQKENGPFRLRKCF AISLLVICIISIGIFYGFVANHQVRT<br>RIKRSRKLADSNFKDLRTLNETPEQIKYILAQYNTTKDKAFTDLNSINSVLGGGILDR<br>LRPNIPVLDEIKSMATAIKETKEALENMNSTLKS LHQQSTQLSSSLTSVKTSLRSSLN                                                                                                                                                                                                                                                                                                                     |

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DPLCLVHPSSSETCNSIRLSLSQLNSNPQLPPVDAELDNVNNVLRDLDGLVQQG  
 YQSLNDIPDRVQRQT TTTVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNNTESY  
 IHRNLPTLEEYDSYWWLGGGLVICSLTLIVIFYLGLLCGVCYDRHATPTTRGCVSN  
 TGGVFLMVGVLGSLFCWILMIIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNE  
 DWEYYLSGKLFNKSMMKLTFEQVYSDCKKNRGTYGTLHLQNSFNISEHLNINEHTGS  
 ISSELESKVNINIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFA  
 YDLEAKANSLPPGNLRNSLKRDAQTIKTIHQQRVLPQSLSTLYQSVKILQRTGNGL  
 LERVTRILASLDFAQNFITNNTSSVIIETKKYGRTIIGYFEHYLQWIEFSISEKVASCKP  
 VATALDTAVDVFLCSYIIDPLNLFWFGIGKATVFLPALIFAVKLAKYYRRMDSVDYD  
 DVETIPMKNMENGNGYHKDHVYGIHNPVMTSPSQHTRTRPLEQKLISEEDLAANDI  
 LDYKDDDDKV

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

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

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

**Official Symbol** PROM1

**Synonyms** PROM1; prominin 1; macular dystrophy, retinal 2, MCDR2, prominin (mouse) like 1, PROML1, Stargardt disease 4 (autosomal dominant), STGD4; prominin-1; AC133;

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CD133; RP41; hProminin; antigen AC133; prominin-like protein 1; hematopoietic stem cell antigen; MCDR2; STGD4; CORD12; PROML1; MSTP061;

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

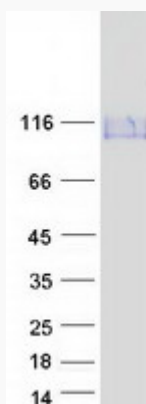
**mRNA Refseq** [NM\\_001145847](#)

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

**MIM** [604365](#)

**UniProt ID** [O43490](#)

**SDS-PAGE**



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