

## Recombinant Human Prominin 1, GST-tagged

**Cat. No.** CD133-90H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PROM1 (1 a.a. - 856 a.a.) fused with GST-tag at N-terminal, was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<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>	122.7 kDa
<b>Sequence</b>	MALVLGSLLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFE LVHIFLYVVQPRDFPEDTLRKFLQKAYESKIDYDKIVYYEAGIILCCVLGLLFIILMPLVG YFFCMCRCCNKCGGEMHQRQKENGPFLLKCF AISLLVICIIISIGIFYGFVANHQVRT RIKRSRKLADSNFKDLRLLNETPEQIKYILAQYNTTKDKAFTDLNSINSVLGGGILDR LRPNIIPLVDEIKSMATAIKETKEALENMNSTLKSLHQQSTQLSSSLTSVKTSLRSSLN DPLCLVHPSSSETCNSIRLSLSQLNSNPELRQLPPVDAELDNVNNVLRDLDGLVQQG

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YQSLNDIPDRVQRQTTTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNTESY  
 IHRNLPTLEEYDSYWWLGGGLVICSLTLIVIFYLGLLCGVCYDRHATPTTRGCVSN  
 TGGVFLMVGVLGSLFCWILMIIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNE  
 DWEYYLSGKLFNKSKMKLTFEQVYSDCKKNRGTGTLHLQNSFNISEHLNINEHTGS  
 ISSELESLKVNLNIFLLGAAGRKNLQDFAACGIDRMNYDSYLAQTGKSPAGVNLLSFA  
 YDLEAKANSLPPGNLRNSLKRDAQTIKTIHQQRVLPPIEQSLSTLYQSVKILQRTGNGL  
 LERVTRILASLDFANFITNNTSSVIIIEETKKYGRTIIGYFEHYLQWIEFSISEKVASCKP  
 VATALDTAVDVFLCSYIIDPLNLFWFGIGKATVFLLPALIFAVKLAKYYRRMDESDVYD  
 DVETIPMKNMENGNGYHKDHVYGIHNPVMTSPSQH

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

**Applications** ELISA; WB

**Storage** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**OfficialSymbol** PROM1

## GENE INFORMATION

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

**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

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

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

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<b>Protein Refseq</b>	NP_001139319
<b>MIM</b>	604365
<b>UniProt ID</b>	O43490
<b>Chromosome Location</b>	4p15.32
<b>Function</b>	actinin binding; cadherin binding; protein binding

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