

Recombinant Full Length Human PROM1 Protein

Cat. No. PROM1-399HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PROM1 was expressed in wheat germ with proprietary liposome technology.
Species	Human
Source	In Vitro Cell Free System
Protein Length	865 amino acids
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.
Form	Liquid
Molecular Mass	96.3 kDa
AA Sequence	MALVLGSLLL LGLCGNSFSG GQPSSTDAPK AWNYELPATN YETQDSHKAG PIGILFELVH IFLYVVQPRD FPEDTLRKFL QKAYESKIDY DKIVYYEAGI ILCCVLGLLF IILMPLVGYF FCMCRCCNKC GGEMHQRQKE NGPFLRKCF A

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ISLLVICIII SIGIFYGFVA NHQVRTRIKR SRKLADSNFK DLRTLLNETP EQIKYILAQY
 NTTKDKAFTD LNSINSVLGG GILDRLRPNI IPVLDDEIKSM ATAIKETKEA
 LENMNSTLKS LHQQSTQLSS SLTSVKTSLR SSLNDPLCLV HPSSETCNSI
 RLSLSQLNSN PELRQLPPVD AELDNVNNVL RTDL DGLVQQ GYQSLNDIPD
 RVQRQTTTVV AGIKRVLNSI GSDIDNVTQR LPIQDILSAF SVYVNNTESY
 IHRNLPTLEE YDSYWVLGGL VICSLTLIV IFYYLGLLCG VCGYDRHATP
 TTRGCVSNTG GVFLMVG VGL SFLFCWILMI IVVLTFFVFGA NVEKLICEPY
 TSKELFRVLD TPYLLNEDWE YYLSGKLFNK SKMKLTFEQV YSDCKKNRGT
 YGTLHLQNSF NISEHLNINE HTGSISSELE SLKVNLNIFL LGAAGRKNLQ
 DFAACGIDRM NYDSYLAQTG KSPAGVNNLS FAYDLEAKAN SLPPGNLRNS
 LKRDAQTIKT IHQQRVLPPIE QSLSTLYQSV KILQRTGNGL LERVTRILAS
 LDFAQNFITN NTSSVIIIEET KKYGRTIIGY FEHYLQWIEF SISEKVASCK
 PVATALDTAV DVFLCSYIID PLNLFWFGIG KATVFLPAL IFAVKLAKYY
 RRMDSDEVYD DVETIPMKNM ENGNNGYHKD HVYGIHNPVM TSPSQH

Purity	Proprietary Purification
Applications	Antibody Production; Functional Study; Compound Screening
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name	PROM1 prominin 1 [Homo sapiens]
Official Symbol	PROM1
Synonyms	prominin 1; prominin (mouse)-like 1; AC133; Stargardt disease 4 (autosomal dominant); CD133; OTTHUMP00000217744; RP41; OTTHUMP00000217745;

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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_006017

Protein Refseq NP_006008

MIM 604365

UniProt ID O43490

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