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
ProteinLength	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 NGPFLRKCFA

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	ISLLVICIII SIGIFYGFVA NHQVRTRIKR SRKLADSNFK DLRTLLNETP EQIKYILAQY NTTKDKAFTD LNSINSVLGG GILDRLRPNI IPVLDEIKSM ATAIKETKEA LENMNSTLKS LHQQSTQLSS SLTSVKTSLR SSLNDPLCLV HPSSETCNSI RLSLSQLNSN PELRQLPPVD AELDNVNNVL RTDLDGLVQQ GYQSLNDIPD RVQRQTTTVV AGIKRVLNSI GSDIDNVTQR LPIQDILSAF SVYVNNTESY IHRNLPTLEE YDSYWWLGGL VICSLLTLIV IFYYLGLLCG VCGYDRHATP TTRGCVSNTG GVFLMVGVGL SFLFCWILMI IVVLTFVFGA NVEKLICEPY TSKELFRVLD TPYLLNEDWE YYLSGKLFNK SKMKLTFEQV YSDCKKNRGT YGTLHLQNSF NISEHLNINE HTGSISSELE SLKVNLNIFL LGAAGRKNLQ DFAACGIDRM NYDSYLAQTG KSPAGVNLLS FAYDLEAKAN SLPPGNLRNS LKRDAQTIKT IHQQRVLPIE QSLSTLYQSV KILQRTGNGL LERVTRILAS LDFAQNFITN NTSSVIIEET KKYGRTIIGY FEHYLQWIEF SISEKVASCK PVATALDTAV DVFLCSYIID PLNLFWFGIG KATVFLLPAL IFAVKLAKYY RRMDSEDVYD 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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