

## Product datasheet for **TP321611M**

### CD133 (PROM1) (NM\_006017) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human prominin 1 (PROM1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC221611 representing NM_006017 Red=Cloning site Green=Tags(s)

MALVLGSLLLLGLCGNSFSGGQPSSTDAPKAWNYELPATNYETQDSHKAGPIGILFELVHIFLYVWQPRD  
FPEDTLRKFLQKAYESKIDYDKPETVILGLKIVVYEAGIILCCVLGLLFIILMPLVGYFFCMCRCCNKCG  
GEMHQRQKENGPFRLKCF AISLLVICIIISIGIFYGFVANHQVRTRIKRSRKLADSNFKDLRTLLNETPE  
QIKYILAQYNTTKDKAFTDLNSINSVLGGGILDRLRPNIIPVLDEIKSMATAIKETKEALENMNSTLKSL  
HQQSTQLSSSLTSVKTSLRSSLNDPLCLVHPSSETCNSIRLSLSQLNSNPELRQLPPVDAELDNVNNVLR  
TDLDGLVQQGYQSLNDIPDRVQRQT TTVVAGIKRVLNSIGSDIDNVTQRLPIQDILSAFSVYVNNNTESYI  
HRNLP TLEEYDSYWWLGGLVICSLTLIVIFYLGLLCGVCGYDRHATPTTRGCVSNTGGVFLMVGVGLS  
FLFCWILMIIVLTFVFGANVEKLICEPYTSKELFRVLDTPYLLNEDWEYYSGLFNKSKMMLTFEQVY  
SDCKKNRGTYGTLHLQNSFNISEHLNINEHTGSISSELESKVNLNIFLLGAAGRKNLQDFAACGIDRMN  
YDSYLAQTGKSPAGVNLFSFAYDLEAKANSLPPGNLRNSLKRDAQTIKTIHQQRVLP IEQSLSTLYQSVK  
ILQRTGNGLLERVTRILASLDFAQN FITNNTSSVIIIEETKKYGR TIIGYFEHYLQWIEFSISEKVASCKP  
VATALDTAVDVFLCSYIIDPLNLFWFGIGKATVFLLPALIFAVKLA KYRRM DSEDVYDDVETIPMKNME  
NGNNGYHKDHVYGIHNPVMTSPSQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	97 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_006008](#)

**Locus ID:** 8842

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

**RefSeq Size:** 3794

**Cytogenetics:** 4p15.32

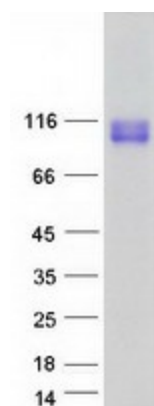
**RefSeq ORF:** 2595

**Synonyms:** AC133; CD133; CORD12; MCDR2; MSTP061; PROM1; RP41; STGD4

**Summary:** 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. [provided by RefSeq, Mar 2009]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

### Product images:



Coomassie blue staining of purified PROM1 protein (Cat# [TP321611]). The protein was produced from HEK293T cells transfected with PROM1 cDNA clone (Cat# [RC221611]) using MegaTran 2.0 (Cat# [TT210002]).