

## Product datasheet for **TP322057M**

### **Plexin A1 (PLXNA1) (NM\_032242) Human Recombinant Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human plexin A1 (PLXNA1), 100 µg
Species:	Human
Expression Host:	HEK293T



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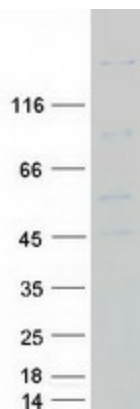
**Expression cDNA Clone or AA Sequence:** >RC222057 representing NM\_032242  
Red=Cloning site Green=Tags(s)

MPLPPRSLQVLLLLLLLLLLLLPGMWAEAGLPRAGGGSQPPFRTFSASDWGLTHLVVHEQTGEVYVGAVNR  
 IYKLSGNLTLLRAHVTGPVEDNEKCYPPPSVQSCPHGLGSTDNVNKLDDYANRLLACGSASQGICQF  
 LRLDDLFLGEPHHRKEHYLSSVQEAGSMAGVLIAGPPGQGQAKLFGVTPIDGKSEYFPTLSSRRLMANE  
 EDADMFGFVYQDEFVSSQLKIPSDTLKFPFADIIYVYSFRSEQFVYYLTLQLDTQLTSPDAAGEHFFTS  
 KIVRLCVDDPKFYSYVEFPIGCEQAGVEYRLVQDAYLSRGRALAHQLGLAEDEDVLFVFAQQGQKNRVK  
 PPKESALCLFTRLRAIKEKIKERIQSCYRGEGLSLPWLNLKELGCINSPLQIDDDFCGQDFNQPLGGTVT  
 IEGTPLFVDKDDGLTAVAAAYDYRGRTVVFAGTRSGRIRKILVDLSNPGGRPALAYESVAQEGSPILRDL  
 VLSPNHQYLYAMTEKQVTRVPVESCQYTSCELCGSRDPHCGWCVLHSICSRRDACERADEPQRFAADL  
 LQCVQLTVQPRNVSVTMSQVPLVLQAWNVPDLSAGVNCSEFEDFTESESVLEDGRIHCRSPSAREVAPITR  
 GQGDQRVVKLYLKSKEGKFFASVDFVFNCSVHQSCSLSCVNGSFPCHWCKYRHVCTHNVADCAFLEGRV  
 NVSEDCPQILPSTQIYVPVGVVKPITLAARNLPQPQSGQRGYECLFHIPGSPARVTALRFNSSLQCQNS  
 SYSYEGNDVSDLPVNLSVWVWNGNFVIDNPQNIQAHLKYKCPALRESCGLCKADPRFECGWCAERRCSLR  
 HHCAADTPASWMHARHGSSRCTDPKILKLPETGPRQGGTRLTITGENLGLRFEDVRLGVRVGVKVLCSPV  
 ESEYISAEQIVCEIGDASSVRAHDALVEVCVRDCSPHYRALSPKRFTFVTPFYRVSPSRGPLSGGTWIG  
 IEGSHLNAGSDVAVSVGGRPCSFSWRNSREIRCLTPPGQSPGSAPIIIININRAQLTNPEVKYNYTEDPTI  
 LRIDPEWSINSGGTLTGTNLATVREPRIRAKYGGIERENGCLVYNDTMMVCRAPSVANPVRSPPELG  
 ERPDELGFVMDNVRSLVLNLSFLYYPDPVLEPLSPTGELLEKPSPLIKGRNLLPPAPGNSRLNYTV  
 LIGSTPCTLTVSETQLLCEAPNLTGQHKVTVRAGGFEFSPGTLQVYSDSLLTLPVIGIGGGGGGLLLVI  
 VAVLIAYKRKSRDADRTLKRLQLQMDNLESRVALECKEAFELQTDIHELTDLDGAGIPFLDYRXYAMR  
 VLFPGIEDHPVLKEMEVQANVEKSLTFLGQLLTKKHFLTFFIRTLEAQRSFSMRDRGNVASLIMTALQGE  
 MEYATGVLKQLLSDLIEKNLESKNHPKLLLRRTESVAEKMLTNWFTFLLYKFLKECAGEPLFMYCAIKQ  
 QMEKGPIDAITGEARYSLEDKLRQQIDYKTLTLNCVNPENENAEVVPVKGLDCDVTQAKEKLLDAAY  
 KGVPPYSQRPKAADMLEWRQGRMARIILQDEDVTTKIDNDWKRLNTLAHYQVTDGSSVALVPKQTSAYNI  
 SNSSTFTKLSRYESMLRTASSPDSLRSRTPMITPDLESGLKWLHLVKNHDLHDQREGDRGSKMVSEIYL  
 TRLLATKGTLLQKFVDDLFTIFSTAHRGSALPLAIKYMDFLDEQADKHQIHADAVRHTWKSNCPLRFW  
 VNVIKNPQVFVDIHKNSITDACLSVAQTFMDSCTSEHKLKGDSPSNKLLYAKDIPNYKSWVERYADI  
 AKMPAISDQDMSAYLAEQSRLHLSQFNSMSALHEIYSYITKYKDEILAALAEKDEQARRQLRSKLEQVVD  
 TMLSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK  
**Predicted MW:** 210.9 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.

<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_115618</a>
<b>Locus ID:</b>	5361
<b>UniProt ID:</b>	<a href="#">Q9UIW2</a>
<b>RefSeq Size:</b>	9071
<b>Cytogenetics:</b>	3q21.3
<b>RefSeq ORF:</b>	5688
<b>Synonyms:</b>	NOV; NOVp; PLEXIN-A1; PLXN1
<b>Summary:</b>	Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm (By similarity).[UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Axon guidance

**Product images:**

Coomassie blue staining of purified PLXNA1 protein (Cat# [TP322057]). The protein was produced from HEK293T cells transfected with PLXNA1 cDNA clone (Cat# [RC222057]) using MegaTran 2.0 (Cat# [TT210002]).