

Product datasheet for **TP316928**

Laminin gamma 1 (LAMC1) (NM_002293) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human laminin, gamma 1 (formerly LAMB2) (LAMC1), 20 µg
Species:	Human
Expression Host:	HEK293T



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Expression cDNA Clone or AA Sequence: >RC216928 representing NM_002293
Red=Cloning site Green=Tags(s)

MRGSHRAAPALRPRGRLWPVLAVLAAAAAAGCAQAAMDECTDEGGRPQRCMPEFVNAAFNVTVATNT
 CG
 TPPEEYCVQTGVTGVTKSCHLCDAGQPHLQHGAFLTDYNNQADTTWWQSQTMLAGVQYPSSINLTLH
 LG
 KAFDITYVRLKFHTSRPESFAIYKRTREDGPWIPYQYYSGSCENTYSKANRGFIRTGGDEQQALCTDEFS
 DISPLTGGNVAFSTLEGRPSAYNFDNSPVLQEWVWATDIRVTLNRLNTFGDEVFNDPKVLKSYYYAISDF
 AVGGRCKCNGHASECMKNEFDKLVCNCKHNTYGVDCCKLPFFNDRPWRRATAESASECLPCDCNGRS
 QE
 CYFDPPELYRSTGHGGHCTNCQDNTDGAHCERCRENFFRLGNNEACSSSCHCSPVGSLSLSTQCDSYGRCSCK
 P
 GVMGDKCDRCPGFHSLTEAGCRPCSCDPSGSDCECNVETGRCVCKDNVEGFNCERCKPGFFNLESSNP
 R
 GCTPCFCFGHSSVCTNAVGYSVYSISSTFQIDEDGWRAEQRDGSEASLEWSSERQDIAVISDSYFPRYFI
 APAKFLGKQVLSYGNLSFSFRVDRRDRLSAEDLVLEGAGLRVSVPLIAQGNSSYPSETTVKYVFRLEHA
 TDYPWRPALTPFEFQKLLNNLTSIKIRGTYSERSAGYLDVTLASARPGPGVPATWVESCTCPVGYGGQF
 CEMCLSGYRRETPNLGPYSPCVLCACNGHSETCDPETGVCNCRDNTAGPHCEKCSGGYGDSTAGTSSDC
 QPCPCPGGSSCAVVPKTEVVTNCPTGTTGKRCELDDGYFGDPLGRNGPVRLCRLCQCSNIDPNAVG
 NCNRLTGECLKCIYNTAGFYCDRCKDGGFFGNPLAPNPADKCKACNCNPYGMTKQSSCNPVTGQCECLP
 H
 VTGQDCGACDPGFYNLQSGQGCERCDCALGSTNGQCDIRTGQCECQPGITGQHCCERCEVNHFGFGPE
 GC
 KPCDCHPEGSLSLQCKDDGRCECREGFVGNRCDQCEENYFYNRSWPGCQCEPCACYRLVKDKVADHRVKL
 Q
 ELESLIANLGTGDEMVTDAQAFEDRLKKAEREVMDLLREAQDVKDQVQNLMDRLQRVNNTLSSQISRLQN
 I
 RNTIEETGNLAEQARAHVENTERLIEIASRELEKAKVAAANVSVTQPESTGDPNMMTLLAEEARKLAERH
 KQEADDIVRVAKTANDTSTEAYNLLLRTLAGEHQTAFEIEELNRKYEQAKNISQDLEKQAARVHEEAKRA
 GDKAVEIYASVAQLSPLDSETLENEANNIKMEAENLEQLIDQKLKDYEDLREDMRGKELEVKNLLEKGT
 EQQTADQLLARADAAKALAEAAKGRDTLQEANDILNKLKDFDRRVNDNKTAEEALRIPAINQTITE
 ANEKTREAQQALGSAADATEAKNKAHEAERIASAVQKNATSTKAEERTFAEVTDLTLDNEVNNMLKQLQE
 AEKELKRKQDDADQDMMMAGMASQAAQAEINARKAKNSVTSLLSIINDLLEQLGQLDVTDLNKLNEIE
 G
 TLNKADEMKVSDLDRKVSLENEAKKQEAAIMDYNRDIEEIMKDIRNLEDIRKTLPSGCFNTPSIEKP
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

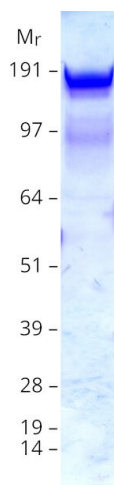
Tag: C-Myc/DDK
Predicted MW: 174.2 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

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.
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_002284
Locus ID:	3915
UniProt ID:	P11047
RefSeq Size:	7923
Cytogenetics:	1q25.3
RefSeq ORF:	4827
Synonyms:	LAMB2
Summary:	<p>Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Laminins, composed of 3 non identical chains: laminin alpha, beta and gamma (formerly A, B1, and B2, respectively), have a cruciform structure consisting of 3 short arms, each formed by a different chain, and a long arm composed of all 3 chains. Each laminin chain is a multidomain protein encoded by a distinct gene. Several isoforms of each chain have been described. Different alpha, beta and gamma chain isomers combine to give rise to different heterotrimeric laminin isoforms which are designated by Arabic numerals in the order of their discovery, i.e. alpha1beta1gamma1 heterotrimer is laminin 1. The biological functions of the different chains and trimer molecules are largely unknown, but some of the chains have been shown to differ with respect to their tissue distribution, presumably reflecting diverse functions in vivo. This gene encodes the gamma chain isoform laminin, gamma 1. The gamma 1 chain, formerly thought to be a beta chain, contains structural domains similar to beta chains, however, lacks the short alpha region separating domains I and II. The structural organization of this gene also suggested that it had diverged considerably from the beta chain genes. Embryos of transgenic mice in which both alleles of the gamma 1 chain gene were inactivated by homologous recombination, lacked basement membranes, indicating that laminin, gamma 1 chain is necessary for laminin heterotrimer assembly. It has been inferred by analogy with the strikingly similar 3' UTR sequence in mouse laminin gamma 1 cDNA, that multiple polyadenylation sites are utilized in human to generate the 2 different sized mRNAs (5.5 and 7.5 kb) seen on Northern analysis. [provided by RefSeq, Aug 2011]</p>

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion, Pathways in cancer, Prion diseases, Small cell lung cancer

Product images:



Coomassie blue staining of purified LAMC1 protein (Cat# TP316928). The protein was produced from HEK293T cells transfected with LAMC1 cDNA clone (Cat# [RC216928]) using MegaTran 2.0 (Cat# [TT210002]).