

## Product datasheet for **TP317480L**

### Laminin beta 2 (LAMB2) (NM\_002292) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human laminin, beta 2 (laminin S) (LAMB2), 1 mg
Species:	Human
Expression Host:	HEK293T



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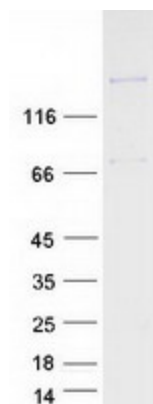
**Expression cDNA** >RC217480 representing NM\_002292  
**Clone or AA** **Red**=Cloning site **Green**=Tags(s)  
**Sequence:**

MELTSRERGRGQPLPWELRLGLLLSVLAATLAQAPAPDVPGCSRGCYPATGDLLVGRADRLTASSTCGL  
 NGPQPYCIVSHLQDEKKCFLCDSRRPFSARDNPHSHRIQNVVTSFAPQRRAAWWQSENGIPAVTIQLDLE  
 AEFHFTHLIMTFKTRPAAMLVERSADFGRTWHVYRYFSYDCGADFPVPLAPPRHWDDVWCESRYSEIE  
 PSTEGEVYRVLDPAIPIPDYSSRIQNLKITNLRVNLTRLHTLGDNLLDPRREIREKYYYALYELVVR  
 GNCFCYGHASECAPAGAPAHAEGMVHGACICKHNTRGLNCEQCQDFYRDLWPWRPAEDGHSACRKCECH  
 GHTHSCHFDMAVYLASGNVSGGVCDCGQHNTAGRHCCELCPFFYRDPTKDLRDPVAVCRSCDCDPMGSQDG  
 GRCDSHDDPALGLVSGQCRCKEHVWGTRCQQCRDGGFFGLSISDRLGCRRQCNCARGTVPGSTPCDPNSGS  
 CYCKRLVTGRGCDRCLPGHWGLSHDLLGCRPCDCVGGALDPQCDEGTGQCHCRQHVMVGRRCQVQPGYF  
 RPFLDHLIWEAEDTRGQVLDVVERLVTPGETPSWTGSGFVRLQEGQTLFLVASVPKAMDYDLLLRLEPQ  
 VPEQWAELELIVQRPGVPAHSLCGHLVPKDDRIQGTLPHARYLIFPNPVCLEPGISYKHLHLKLVRTGG  
 SAQPETPYSGPGLLIDSLVLLPRVLVLEMFSGGDAALERQATFERYQCHEEGLVPSKTSPEACAPLLI  
 SLSTLIYNGALPCQCNPQGSLSSECNPHGGQCLCKPGVGRRCDLAPGYYGFGPTGCQACQCSHEGALS  
 SLCEKTSQQLCRTGAFGLRCDRCQRGQWGFPSRPCVCNGHADECNHTTGACLGCRDHTGGEHCERCIA  
 GFHGDPRLPYGGQCRPCPCPEPGSQRHFATSCHQDEYSQQIVCHCRAGYTGLRCEACAPGHFGDPSRPG  
 GRCQLCECSGNIDPMDPDACDPHTGQCLRCLHHTEGPHCAHCKPGFHGQAARQSCHRCTCNLLGTNPQQC  
 PSPDQCHCDPSSGQCPCLPNVQGPSCDRCAPNFWNLTSGHGCQPCACHPSRARGPTCNEFTGQCHCRAGF  
 GGRTCSECQELHWGDPGLQCHACDCDSRGIDTPQCHRFTGHCSCRPGVSGVRCDQCARAFSGIFPACHPC  
 HACFGDWRVVDLAARTQRLEQRAQELQQTGVLGAFESSFWMQEKLGIVQGIVGARNTSAASTAQLVE  
 ATEELRREIGEATEHLTQLEADLTDVQDENFNANHALSGLERDRLALNLTLRQLDQHLDLLKHSNFLGAY  
 DSIRHAHSQSAEAERRANTSALAVPSPVNSASARHRTEALMDAQKEDFNSKHMANQRALGKLSAHTHTL  
 SLTDINELVCGAPGDAPCATSPCGGAGCRDEDGQPRCGGLSCNGAAATADLALGRARHTQAEQRALAE  
 GSILSRVAETRQASEAQRAQAALDKANASRGQVEQANQELQELIQSVKDFLNQEGADPDSIEMVATRV  
 LELSIPASAEQIQHLAGAIAERVRSADVDAILARTVGDVRRAEQLLQDARRARSWAEDEKQKAETVQAA  
 LEEAQAQGAIAQGAIRGAVADTRDTEQTLYQVQERMAGAERALSSAGERARQLDALLEALKKRAGNSLA  
 ASTAETAGSAQGRAQAEQLLRGPLGDQYQTVKALAERKAQGVLAQAQRAEQLRDEARDLLQAAQDKLQ  
 RLQELEGTYEENERALESKAAQLDGLLEARMRSVLQAINLQVQIYNTCQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 192.4 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.

<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_002283</a>
<b>Locus ID:</b>	3913
<b>UniProt ID:</b>	<a href="#">P55268</a>
<b>RefSeq Size:</b>	5815
<b>Cytogenetics:</b>	3p21.31
<b>RefSeq ORF:</b>	5394
<b>Synonyms:</b>	LAMS; NPHS5
<b>Summary:</b>	<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), form 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 beta chain isoform laminin, beta 2. The beta 2 chain contains the 7 structural domains typical of beta chains of laminin, including the short alpha region. However, unlike beta 1 chain, beta 2 has a more restricted tissue distribution. It is enriched in the basement membrane of muscles at the neuromuscular junctions, kidney glomerulus and vascular smooth muscle. Transgenic mice in which the beta 2 chain gene was inactivated by homologous recombination, showed defects in the maturation of neuromuscular junctions and impairment of glomerular filtration. Alternative splicing involving a non consensus 5' splice site (gc) in the 5' UTR of this gene has been reported. It was suggested that inefficient splicing of this first intron, which does not change the protein sequence, results in a greater abundance of the unspliced form of the transcript than the spliced form. The full-length nature of the spliced transcript is not known. [provided by RefSeq, Aug 2011]</p>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer

**Product images:**

Coomassie blue staining of purified LAMB2 protein (Cat# [TP317480]). The protein was produced from HEK293T cells transfected with LAMB2 cDNA clone (Cat# [RC217480]) using MegaTran 2.0 (Cat# [TT210002]).