

# **Product datasheet for TP318146M**

#### OriGene Technologies, Inc.

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## Laminin (LAMC3) (NM\_006059) Human Recombinant Protein

### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Homo sapiens laminin, gamma 3 (LAMC3), 100 μg

Species: Human Expression Host: HEK293T

Expression cDNA >RC218146 representing NM\_006059
Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MAAAALLLGLALLAPRAAGAGMGACYDGAGRPQRCLPVFENAAFGRLAQASHTCGSPPEDFCPHVGAAGA GAHCQRCDAADPQRHHNASYLTDFHSQDESTWWQSPSMAFGVQYPTSVNITLRLGKAYEITYVRLKFHTS RPESFAIYKRSRADGPWEPYQFYSASCQKTYGRPEGQYLRPGEDERVAFCTSEFSDISPLSGGNVAFSTL EGRPSAYNFEESPGLQEWVTSTELLISLDRLNTFGDDIFKDPKVLQSYYYAVSDFSVGGRCKCNGHASEC GPDVAGQLACRCQHNTTGTDCERCLPFFQDRPWARGTAEAAHECLPCNCSGRSEECTFDRELFRSTGHGG RCHHCRDHTAGPHCERCQENFYHWDPRMPCQPCDCQSAGSLHLQCDDTGTCACKPTVTGWKCDRCLPGFH SLSEGGCRPCTCNPAGSLDTCDPRSGRCPCKENVEGNLCDRCRPGTFNLQPHNPAGCSSCFCYGHSKVCA STAQFQVHHILSDFHQGAEGWWARSVGGSEHPPQWSPNGVLLSPEDEEELTAPEKFLGDQRFSYGQPLIL TFRVPPGDSPLPVQLRLEGTGLALSLRHSSLSGPQDAGHPREVELRFHLQETSEDVAPPLPPFHFQRLLA NLTSLRLRVSPGPSPAGPVFLTEVRLTSARPGLSPPASWVEICSCPTGYTGQFCESCAPGYKREMPQGGP YASCVPCTCNQHGTCDPNTGICVCSHHTEGPSCERCLPGFYGNPFAGQADDCQPCPCPGQSACTTIPESR EVVCTHCPPGQRGRRCEVCDDGFFGDPLGLFGHPQPCHQCQCSGNVDPNAVGNCDPLSGHCLRCLHNTTG DHCEHCQEGFYGSALAPRPADKCMPCSCHPQGSVSEQMPCDPVTGQCSCLPHVTARDCSRCYPGFFDLQP GRGCRSCKCHPLGSQEDQCHPKTGQCTCRPGVTGQACDRCQLGFFGFSIKGCRACRCSPLGAASAQCHEN GTCVCRPGFEGYKCDRCHDNFFLTADGTHCQQCPSCYALVKEEAAKLKARLTLTEGWLQGSDCGSPWGPL DILLGEAPRGDVYQGHHLLPGAREAFLEQMMSLEGAVKAAREQLQRLNKGARCAQAGSQKTCTQLADLEA VLESSEEEILHAAAILASLEIPQEGPSQPTKWSHLATEARALARSHRDTATKIAATAWRALLASNTSYAL LWNLLEGRVALETQRDLEDRYQEVQAAQKALRTAVAEVLPEAESVLATVQQVGADTAPYLALLASPGALP QKSRAEDLGLKAKALEKTVASWQHMATEAARTLQTAAQATLRQTEPLTKLHQEARAALTQASSSVQAATV TVMGARTLLADLEGMKLQFPRPKDQAALQRKADSVSDRLLADTRKKTKQAERMLGNAAPLSSSAKKKGRE AEVLAKDSAKLAKALLRERKQAHRRASRLTSQTQATLQQASQQVLASEARRQELEEAERVGAGLSEMEQQ IRESRISLEKDIETLSELLARLGSLDTHQAPAQALNETQWALERLRLQLGSPGSLQRKLSLLEQESQQQE LQIQGFESDLAEIRADKQNLEAILHSLPENCASWQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 





### Laminin (LAMC3) (NM\_006059) Human Recombinant Protein - TP318146M

Tag: C-Myc/DDK

Predicted MW: 169.4 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.

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 006050

**Locus ID:** 10319

UniProt ID: <u>Q9Y6N6</u>, <u>Q8N2D6</u>

RefSeq Size: 5100 Cytogenetics: 9q34.12 RefSeq ORF: 4725

Synonyms: OCCM

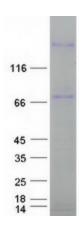


#### **Summary:**

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 are composed of 3 non identical chains: laminin alpha, beta and gamma (formerly A, B1, and B2, respectively) and they 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 gamma chain isoform laminin, gamma 3. The gamma 3 chain is most similar to the gamma 1 chain, and contains all the 6 domains expected of the gamma chain. It is a component of laminin 12. The gamma 3 chain is broadly expressed in skin, heart, lung, and the reproductive tracts. In skin, it is seen within the basement membrane of the dermal-epidermal junction at points of nerve penetration. Gamma 3 is also a prominent element of the apical surface of ciliated epithelial cells of lung, oviduct, epididymis, ductus deferens, and seminiferous tubules. The distribution of gamma 3-containing laminins along ciliated epithelial surfaces suggests that the apical laminins are important in the morphogenesis and structural stability of the ciliated processes of these cells. [provided by RefSeq, Aug 2011]

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

## **Product images:**



Coomassie blue staining of purified LAMC3 protein (Cat# [TP318146]). The protein was produced from HEK293T cells transfected with LAMC3 cDNA clone (Cat# [RC218146]) using MegaTran 2.0 (Cat# [TT210002]).