

Product datasheet for RC226349

Laminin 5 (LAMB3) (NM_001127641) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Laminin 5 (LAMB3) (NM_001127641) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Laminin 5
Synonyms:	A11A; BM600-125KDA; LAM5; LAMNB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226349 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGACCATTCTCCTCTTGTGTTTTGCCCTGCCTGGCCTCCTGCATGCCCAACAAGCCTGCTCCCGTG
GGGCTGTATCCACCTGTTGGGACCTGCTTGTGGGAGGACCCGGTTTCTCCGAGCTTCATCTACCTG
TGGACTGACCAAGCCTGAGACCTACTGCACCCAGTATGGCGAGTGGCAGATGAAATGCTGCAAGTGTGAC
TCCAGGCAGCCTCACAACACTACAGTCACCGAGTAGAGAATGTGGCTTCATCCTCCGGCCCATGCGCT
GGTGGCAGTCCCAGAATGATGTGAACCCGTCTCTCTGCAGCTGGACCTGGACAGGAGATTCCAGCTTCA
AGAAGTCATGATGGAGTCCAGGGGCCATGCCTGCCGGCATGCTGATTGAGCGCTCCTCAGACTTCGGT
AAGACCTGGCGAGTGTACCAGTACCTGGCTGCCGACTGCACCTCCACCTCCCTCGGGTCCGCCAGGGTC
GGCCTCAGAGCTGGCAGGATGTTCCGGTCCAGTCCCTGCCTCAGAGGCCTAATGCACGCCTAAATGGGGG
GAAGGTCCAACCTTAACCTTATGGATTTAGTGTCTGGGATCCAGCAACTCAAAGTCAAAAAATTCAGAG
GTGGGGGAGATCACAACCTTGAGAGTCAATTTACCAGGCTGGCCCTGTGCCCAAGGGGCTACCACC
CTCCCAGCGCCTACTATGCTGTGTCCCAGCTCCGTCTGCAGGGGAGCTGCTTCTGTCACGGCCATGTGA
TCGCTGCGCACCAAGCCTGGGGCCTCTGCAGGCCCTCCACCGCTGTGCAGGTCCACGATGTCTGTGTC
TGCCAGCACAACTGCCGGCCAAATTTGAGCGCTGTGCACCCCTTCTACAACAACCGCCCTGGAGAC
CGGCGGAGGGCCAGGACGCCATGAATGCCAAAGGTGCGACTGCAATGGGCACTCAGAGACATGTCACTT
TGACCCCGCTGTGTTTGCCGCCAGCCAGGGGCATATGGAGGTGTGTGTGACAATTGCCGGGACCACACC
GAAGGCAAGAAGTGTGAGCGGTGTGAGTGCATATTTCCGGAACCGGCCCGGGAGCTTCCATTCAGG
AGACCTGCATCTCCTGCGAGTGTGATCCGGATGGGGCAGTGCCAGGGGCTCCCTGTGACCCAGTGACCGG
GCAGTGTGTGCAAGGAGCATGTGCAGGGAGAGCGCTGTGACCTATGCAAGCCGGGCTTCACTGGACTC
ACCTACGCCAACCCGAGGGCTGCCACCGCTGTGACTGCAACATCCTGGGGTCCCGGAGGGACATGCCGT
GTGACGAGGAGAGTGGGGCTGCCTTTGTCTGCCAACGTGGTGGTCCCAAATGTGACCAAGTGTGCTCC
CTACCACTGGAAGCTGGCCAGTGGCCAGGGCTGTGAACCGTGTGCTGCGACCCGCAACTCCCTCAG



[View online >](#)

CCACAGTGCAACCAAGTTACAGGGCAGTGCCCTGTCGGGAAGGCTTTGGTGGCCTGATGTGCAGCGCTG
CAGCCATCCGCCAGTGTCCAGACCGGACCTATGGAGACGTGGCCACAGGATGCCGAGCCTGTGACTGTGA
TTTCCGGGGAACAGAGGGCCCGGCTGCGACAAGGCATCAGGCCGCTGCCTCTGCCGCCCTGGCTTGACC
GGGCCCCGCTGTGACCAGTGCCAGCGAGGCTACTGCAATCGTACCCGGTGTGCGTGGCCTGCCACCCTT
GCTTCCAGACCTATGATGCGGACCTCCGGGAGCAGGCCCTGCGCTTTGGTAGACTCCGCAATGCCACCGC
CAGCCTGTGGTCAGGGCCTGGCTGGAGACCGTGGCCTGGCCTCCCGGATCCTAGATGCAAAGAGTAAG
ATTGAGCAGATCCGAGCAGTTCTCAGCAGCCCCGAGTCACAGAGCAGGAGGTGGCTCAGGTGGCCAGTG
CCATCCTCTCCCTCAGGGGAACCTCCAGGGCCTGCAGCTGGATCTGCCCTGGAGGAGGAGACGTGTGC
CCTCCGAGAGACCTGGAGAGTCTTGACAGAAGCTTCAATGGTCTCCTTACTATGTATCAGAGGAAGAGG
GAGCAGTTTAAAAAATAAGCAGTGCTGATCCTTCAGGAGCCTTCCGGATGCTGAGCACAGCCTACGAGC
AGTCAGCCAGGCTGCTCAGCAGGTCTCCGACAGCTCGCGCTTTTGGACCAGCTCAGGGACAGCCGGAG
AGAGGCAGAGAGGCTGGTGCAGCAGGGGAGGAGGAGGAGGCACCGGCAGCCCCAAGCTTGTGGCCCTG
AGGCTGGAGATGTCTTCGTTGCCTGACCTGACACCCACCTTCAACAAGCTCTGTGGCACTCCAGGCAGA
TGGCTTGACCCCAATATCATGCCCTGGTGGTATGTCCCAAGACAATGGCACAGCCTGTGGCTCCCG
CTGACAGGGGTGTCTTCCAGGGCCGGTGGGGCTTCTTGATGGCGGGGAGGTGGCTGAGCAGCTCGCG
GGCTTCAATGCCAGCTCCAGCGGACCAGGCAGATGATTAGGGCAGCCGAGGAATCTGCCTCACAGATTC
AATCCAGTGCCACAGCCTGGAGACCCAGGTGAGCGCCAGCCGCTCCAGATGGAGGAAGATGTCAGACG
CACACGGCTCCTAATCCAGCAGGTCCGGGACTTCTAACAGACCCCGACACTGATGCAGCCACTATCCAG
GAGGTACGCGAGGCGGTGCTGGCCCTGTGGCTGCCACAGACTCAGTACTGTTCTGCAGAAGATGAATG
AGATCCAGGCCATTGCAGCCAGGCTCCCCAACGTGGACTTGGTGTGTCCCAGACCAAGCAGGACATTGC
GCGTGGCCCGGTTGCAGGCTGAGGCTGAGGAAGCCAGGAGCCGAGCCCATGCAGTGGAGGGCCAGGTG
GAAGATGTGGTTGGGAACCTGCGGCAGGGGACAGTGGCACTGCAGGAAGCTCAGGACACCATGCAAGGCA
CCAGCCGCTCCCTTCGGCTTATCCAGGACAGGGTTGCTGAGGTTACAGCAGTACTGCGGCCAGCAGAAAA
GCTGGTGACAAGCATGACCAAGCAGCTGGGTGACTTCTGGACACGGATGGAGGAGCTCCGCCACCAAGCC
CGGCAGCAGGGGCGAGAGCAGTCCAGGCCAGCAGCTTGCAGGAAGGTGCCAGCAGCAGGCATTGAGTG
CCCAAGAGGGATTTGAGAGAATAAAAACAAAAGTATGCTGAGTTGAAGGACCGGTTGGGTGAGAGTCCAT
GCTGGGTGAGCAGGGTCCCGGATCCAGAGTGTGAAGACAGAGGCAGAGGAGCTGTTTGGGGAGACCATG
GAGATGATGGACAGGATGAAAGACATGGAGTTGGAGCTGCTGCGGGGAGCCAGGCCATCATGCTGCGCT
CGGCGGACCTGACAGGACTGGAGAAGCGTGTGGAGCAGATCCGTGACCACATCAATGGGCGCGTGTCTA
CTATGCCACCTGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226349 protein sequence
 Red=Cloning site Green=Tags(s)

MRPFFLLCFALPGLLHAQQACSRGACYPPVGDLLVGRTRFLRASSTCGLTKPETYCTQYGEWQMKCKCD
 SRQPHNYSHRVENVASSGPMRWWQSQNDVNPVSLQLDLDRRFQLQEVMMEFQGPMPAGMLIERSDFG
 KTWVYQYLAADCTSTFPRVRQGRPQSQWDVRCQSLPQRPNARLNGGKVQLNMDLVSGIPATQSQKIQE
 VGEITNLRVNFTRLAPVPQRGYHPPSAYYAVSQLRLQGSCFCHGHADRCAPKPGASAGPSTAVQVHDVCV
 CQHNTAGPNCERCAPFYNNRPWRPAEGQDAHECQRCDNCGHSETCHFDPVFAASQGGAYGGVCDNCRDHT
 EGKNCERCQLHYFRNRRPGASIQETCISCECDPDGAVPGAPCDPVTGQCVCKEHVQGERCDLCKPGFTGL
 TYANPQGCHRDCNILGSRDMPDCEESGRCLCLPNVVGPKCDQCAPYHWKLASGQGCPCACDPHNSLS
 PQCNQFTGQCPCREGFGLMCSAAAIRQCPDRTYGDVATGCRACDCDFRGTEGPGCDKASGRCLCRPGLT
 GPRCDQCQRGYCNRYPCVACHPCFQTYDADLREQALRFGRNRNATASLWSGPLEDRGLASRILDAKSK
 IEQIRAVLSSPAVTEQVAQVASAILSLRRTLQGLQLDPLEEETLSLPRDLESLSRDNGLLTMQRKR
 EQFEKISSADPSGAFRMLSTAYEQSAQAQVSDSSRLLDQLRDSRREAERLVRQAGGGGTGSPKLV
 RLEMSSLPDLTPTFNKLCGNSRQMACTPISCPGELCPQDNGTACGSRGVLPRAGGAFLMAGQVAEQLR
 GFNAQLQRTRQMI RAAEESASQIQSSAQRL ETQVSASRSQMEEDVRRTRLLIQQVRDFLTDPTDAATIQ
 EVSEAVLALWLPDTSATVLQKMNEIQAI AARLPNVDLVLSQTKQDIARARLQAEAEARSRAHAVEGQV
 EDVVGNL RQGTVALQEAQDTMQGTSRSLRLIQDRVAEVQVLRPAEKLVTSMTKQLGDFWTRMEELRHQA
 RQGGAEAVQAQLAEGASEQALSAQEGFERIKQKYAELKDRLGQSSMLGEQGARIQSVKTEAEELFGETM
 EMMDRMKDMELELLRGSQAIMLRSADLTGLEKRVQIRDHINGRVLVYATCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6678_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

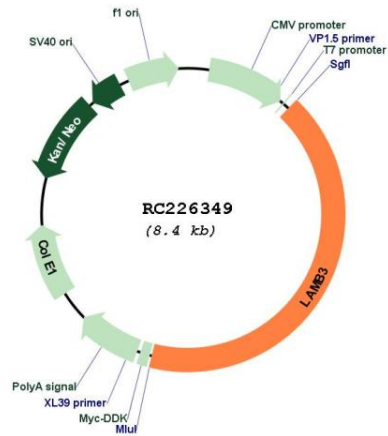


ACCN: NM_001127641

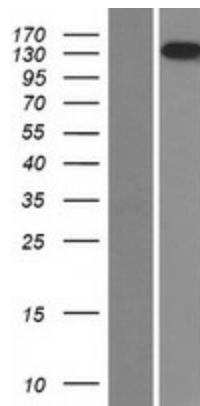
ORF Size: 3516 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001127641.1 , NP_001121113.1
RefSeq Size:	4067 bp
RefSeq ORF:	3519 bp
Locus ID:	3914
UniProt ID:	Q13751
Cytogenetics:	1q32.2
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer
MW:	129.6 kDa
Gene Summary:	The product encoded by this gene is a laminin that belongs to a family of basement membrane proteins. This protein is a beta subunit laminin, which together with an alpha and a gamma subunit, forms laminin-5. Mutations in this gene cause epidermolysis bullosa junctional Herlitz type, and generalized atrophic benign epidermolysis bullosa, diseases that are characterized by blistering of the skin. Multiple alternatively spliced transcript variants that encode the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC226349



Western blot validation of overexpression lysate (Cat# [LY426828]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226349 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).