

## Product datasheet for **RC238518**

### LAMA3 (NM\_001302996) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LAMA3 (NM_001302996) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAMA3
Synonyms:	BM600; E170; LAMNA; LOCS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238518 representing NM\_001302996  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCGGCCGCGCGCCTCGGGTTCGGGCACTGGGGCCAGTACTGCCGCCAGCCGCTGCTCCTGC  
 TGGTACTGCGGGTCTGCCAGCCTGCGGGGCGACCGCTCGGGATCCCGGGGCCGCGCGGGCTCAGCCT  
 TCACCCGACTTACTTCAACCTGGCCGAGCGCGGAGGATTTGGGCCACCGCCACCTGCCGGGAGAGGGGA  
 CCCGGCGAGGGGAGGCCAGCCGAGCTCTACTGCAAGTTGGTGGGGGCCACCGCCAGGCAGCG  
 GCCACACCATCCAGGGCAGTTCTGTGACTATTGCAATTCTGAAGACCCAGGAAAGCACATCCTGTCAC  
 CAATGCCATCGATGGATCTGAACGTTGGTGGCAAAGCCCTCCCTGTCTCAGGCACACAGTACAACAGA  
 GTCAACCTCACCTGGATCTGGGCAGCTTCCATGTGGCTATATTTTAAATCAAAATTTGCAAATTTCTC  
 CTCGCCCTGATCTTTGGTCTTGGAAAGATCTGTAGACTTTGGAAGCACCTACTCACCATGGCAATTTT  
 TGCTCATTCTAAAGTAGACTGTTTAAAAGAATTTGGGCGGAGGCAAATATGGCTGTACCCGGGATGAT  
 GATGTACTTTGTGTTACTGAATATTCCTGATTGTACCTTTGGAAAATGGTGAGGTTGTGGTGTCTTGA  
 TAAACGGTCGTCCAGGTGCAAAAAATTTACTTCTCTCACACCTGAGGGAGTTTACCAAGGCAACAAA  
 CATCCGCTTGGTTTTCTTAGAACCAATACGCTTCTTGGACACCTCATCTCCAAAGCCAGCGAGATCCA  
 ACTGCTACTCGGCGGTATTATTACAGCATAAAGGACATCAGCATTGGTGGCAGTGTGTTTGAATGGCC  
 ATGCTGAAGTGTGCAATAAACAATCTGAAAACTGTTTCGGTGTGAATGCCAGCACCACACCTGTGG  
 GGAGACGTGTGATCGTCTGCACAGGGTACAATCAGAGGCGCTGGCGGCCCGCCGCTTTGGGAGCAGAGC  
 CAGGAGTGAAGCATGCAACTGCCACGGCCATGCCAGCAACTGTACTATGATCCAGATGTTGAGCGGC  
 AGCAGGCAAGCTTGAATACCCAGGGCATCTAGCTGGTGGAGGGGCTGCATTAAGTGTGAGCACAACAC  
 AGCTGGAGTAAACTGTGAACAGTGTCTAAGGGCTATTACCGCCCTTATGGGGTTCCAGTGGATGCCCT  
 GATGGCTGCATCCGTAAGTTTCAATTTCAAGTTGGTGTATCTTAGCCTGTGTACTGCCTCAGCGAAGTC  
 ATCAGGCTAAGTTGGATCAGTTAATAACTTCTTTCATGCCCTCTCTTTCAGAGTATTAGTTGTGCTCG  
 CTATGTGACCTCAGTCACTTACACAGTCTCTTTGAATTTGGATTTATTGCATGTAATGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238518 representing NM\_001302996  
 Red=Cloning site Green=Tags(s)

MAAAARPRGRALGPVLPPTPLLLLVLRLVPACGATARDPGAAAGLSLHPTYFNLAEAARIWATATCGERG  
 PGEGRPQPELYCKLVGGPTAPGSGHTIQGQFCDYCNSEDPRKAHPVTNAIDGSRWWQSPPLSSGTQYNR  
 VNLTLDLGQLFHVAYILIKFANSRPRDLWVLEERSVDFGSTYSPWQYFAHSKVDCLKEFGREANMAVTRDD  
 DVL CVTEYSRIVPLENGEVVSL INGRPGAKNFTFSHTLREFTKATNIRLRLRNTLLGHLISKAQRDP  
 TVTRRRYYYSIKDISIGGQVCNGHAEVCNINNPEKLFRCCEQHHTCGETCDRCCTGYNQRRWRPAAWEQS  
 HECEACNCHGHASNCYYDPDVERQQASLNTQGIYAGGGVCINCQHNTAGVNCEQCAKGYRYPYGVVDPDAP  
 DGCIRKHFHFLVYLSLCVLPQRSHQANFGSVNLFHALSLQSI SCARYVTSVITYVSLNFGFIACKWK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

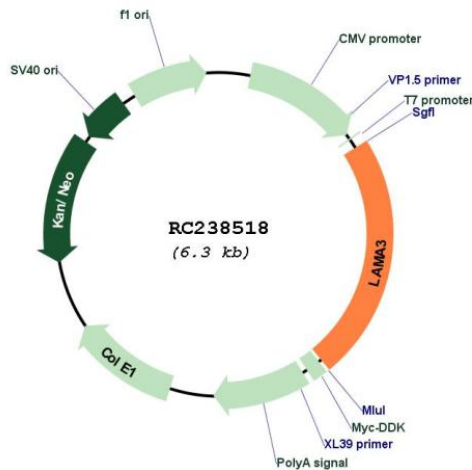
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001302996

ORF Size: 1464 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001302996.2</a>
<b>RefSeq Size:</b>	1749 bp
<b>RefSeq ORF:</b>	1467 bp
<b>Locus ID:</b>	3909
<b>UniProt ID:</b>	<a href="#">Q16787</a>
<b>Cytogenetics:</b>	18q11.2
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer
<b>MW:</b>	54.6 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the laminin family of secreted molecules. Laminins are heterotrimeric molecules that consist of alpha, beta, and gamma subunits that assemble through a coiled-coil domain. Laminins are essential for formation and function of the basement membrane and have additional functions in regulating cell migration and mechanical signal transduction. This gene encodes an alpha subunit and is responsive to several epithelial-mesenchymal regulators including keratinocyte growth factor, epidermal growth factor and insulin-like growth factor. Mutations in this gene have been identified as the cause of Herlitz type junctional epidermolysis bullosa and laryngoonychocutaneous syndrome. Alternative splicing and alternative promoter usage result in multiple transcript variants. [provided by RefSeq, Dec 2014]</p>