

Product datasheet for **SC323289**

LAMA3 (NM_001127718) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAMA3 (NM_001127718) Human Untagged Clone
Tag:	Tag Free
Symbol:	LAMA3
Synonyms:	BM600; E170; LAMNA; LOCS
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001127718, the custom clone sequence may differ by one or more nucleotides

```

ATGCCTCCAGCAGTGAGGCGGTGAGCCTGCAGCATGGGATGGCTGTGGATCTTTGGGGCA
GCCCTGGGGCAGTGTCTGGGCTACAGTTCACAGCAGCAAAGGGTGCCATTTCTTCAGCCT
CCCAGTCAAAGTCAACTGCAAGCGAGTTATGTGGAGTTTACAGCCAGCCAGGGTTGTAGC
CCTGGATACTATCGGGATCATAAAGGCTGTATACCGGACGGTGTTCCTGCAATTGC
AACGGACATTCAAATCAATGCCAGGATGGCTCAGGCATATGTGTTAACTGTCAGCACAAAC
ACCGCGGGAGAGCACTGTGAACGCTGCCAGGAGGGCTACTATGGCAACGCCGTCACGGA
TCCTGCAGGGCCTGCCCATGTCCCTCACACTAACAGCTTTGCCACTGGCTGTGTGGTGAAT
GGGGGAGACGTGCGGTGCTCCTGCAAAGCTGGGTACACAGGAACACAGTGTGAAAGGTGT
GCACCGGGATATTTGCGGAATCCCAGAAATTCGGAGGTAGCTGCCAACCATGCAGTTGT
AACAGCAATGGCCAGCTGGGCAGCTGTCATCCCCTGACTGGAGACTGCATAAACCAAGAA
CCCAAAGATAGCAGCCCTGCAGAAGAAATGTGATGATTGCGACAGCTGTGTGATGACCCCTC
CTGAACGACCTGGCCACCATGGGCGAGCAGCTCCGCTGGTCAAGTCTCAGCTGCAGGGC
CTGAGTGCCAGCGCAGGGCTTCTGGAGCAGATGAGGCACATGGAGACCCAGGCCAAGGAC
CTGAGGAATCAGTTGCTCAACTACCGTTCTGCCATTTCAAATCATGGATCAAAAAATAGAA
GGCCTGGAAAGAGAACTGACTGATTTGAATCAAGAATTTGAGACTTTGCAAGAAAAGGCT
CAAGTAAATTCAGAAAAGCACAAACATTAACAACAATGTTAATCGGGCAACACAAAGC
GCAAAAAGAACTGGATGTGAAGATTAATAATGTCATCCGGAATGTGCACATGCTGAACCGG
ATAAGGACCTGGCAGAAAACCCACCAGGGGAGAAACAATGGGCTTGCTAACAGTATCCGG
GATTTCTTAAATGAATACGAAGCCAAACTCAGTGACCTTCGTGCTCGGCTGCAGGAGGCA
GCTGCCAAAGCCAAGCAGGCAAATGGCTTGAACCAAGAAAACGAGAGAGCTTTGGGAGCC
ATTCAGAGACAAGTGAAGAAAATAAATCCCTGCAGAGTGATTTACCAAGTATCTAACC
ACTGCAGACTCATTTTGTGCAAACCAACATTGCGCTGCAGCTGATGGAGAAAAGCCAG
AAGGAATATGAAAATTAGCTGCCAGTTTAAATGAAGCAAGACAAGAAGTAAAGTACAAA
GTAAAGAGAACTTTCCAGATCTGCTGGCAAACATCCCTTGTGGAGAGGCAGAAAAGCAC
GCGCGGTCTTACAAGAGCTGGCAAAGCAGCTGGAAGAGATCAAGAGAAAACGCCAGCGGG
GATGAGCTGGTGCCTGTGCTGTGGATGCCGCCACCGCTACGAGAACATCCTCAATGCC
ATCAAAGCGGCCGAGGACGCAGCCAACAGGGCTGCCAGTGCATCTGAATCTGCCCTCCAG
ACAGTGATAAAGGAAGATCTGCCAAGAAAAGCTAAAACCTGAGTTCCAACAGTGATAAA
CTGTTAAATGAAGCCAAGATGACACAAAAGAAGCTAAAGCAAGAAGTCAAGTCCAGCTCTC

```



[View online »](#)

AACAACTACAGCAAACCCTGAATATTGTGACAGTTCAGAAAGAAGTGATAGACCCAAT
 CTCACAACCTCCGAGATGGTCTTCATGGGATACAGAGAGGTGATATTGATGCTATGATC
 AGTAGTGCAAAGAGCATGGTCAGAAAGGCCAACGCATCACAGATGAGGTTCTGGATGGG
 CTCAACCCCATCCAGACAGATGTGGAAAGAAATTAAGGACACCTATGGGAGGACACAGAAC
 GAAGACTTCAAAAAGGCTCTGACTGATGCAGATAACTCGTGAAATAAGTTAACCAACAAA
 CTACCTGATCTTTGGCGCAAGATTGAAAGTATCAACCAACAGCTGTTGCCCTTGGGAAAC
 ATCTCTGACAACATGGACAGAATACGAGAATAATTCAGCAGGCCAGAGATGCTGCCAGT
 AAGGTTGCTGTCCCATGAGGTTCAATGGTAAATCTGGAGTCAAGTCCGACTGCCAAAT
 GACCTGGAAGATTTGAAAGGATATACATCTCTGTCTTGTCTTCTCCAAAGGCCAACTCA
 AGAGAAAATGGGGTACTGAGAATATGTTTGTGATGTACCTTGGAAAATAAGATGCCTCC
 CGGGACTACATCGGCATGGCAGTTGTGGATGGCCAGCTCACCTGTGTCTACAACCTGGGG
 GACCGTGAGGCTGAACTCCAAGTGGACCAGATCTTGACCAAGAGTGAGACTAAGGAGGCA
 GTTATGGATCGGGTGAATTTTCAGAGAATTTATCAGTTTGAAGGCTTAATTACACAAA
 GGAGCCACATCCAGTAAACCAGAAACACCCGGAGTCTATGACATGGATGGTAGAAATAGC
 AATACACTCCTTAATTTGGATCCTGAAAATGTTGTATTTTATGTTGGAGGTTACCCACCT
 GATTTTAAACTTCCAGTCGACTAAGTTTCCCTCCATACAAAGGTTGTATTGAATTAGAT
 GACCTCAATGAAAATGTTCTGAGCTTGTACAACCTCAAAAAAACATTCAATCTCAACACA
 ACTGAAGTGGAGCCTTGTAGAAGGAGGAAGGAAGAGTCAGACAAAAATATTTTGAAGGT
 ACGGGCTATGCTCGAGTCCAACCAACCATGCTCCCATCCCAACCTTTGGACAGACA
 ATTCAGACCACCGTGGATAGAGGCTTGTCTTCTTTCAGAAAACGGGGTTCGCTTCATA
 TCTCTAAATATAGAAGATGGCAAGCTCATGGTGAGATACAAACTGAATTCAGAGCTACCA
 AAAGAGAGAGGAGTTGGAGACGCCATAAACAACGGCAGAGACCATTGATTGAGATCAAA
 ATTTGGAAAACCTCAAAAAGCGTATGTGGATAAATGTGGAGTTCAAAACACTATAAATGAT
 GGTGAAGTATTTGATTTTCAGACATATTTCTGGGAGGAATTCGAATGCAATCAGGGAA
 AGATTTAACATTTCTACGCTGCTTTCCGAGGCTGCATGAAAAATTTGAAGAAAACAGT
 GGTGTCGTTAGATTGAATGATACTGTGGGAGTAACAAAAAGTGCCTCGGAAGACTGGAAG
 CTTGTGCGATCTGCCTCATTCTCCAGAGGAGGACAATTGAGTTTCACTGATTTGGGCTTA
 CCACCTACTGACCACCTCCAGGCTCATTGGATTTTCAGACCTTCAACCCAGTGGCATA
 TTATTAGATCATCAGACATGGACAAGGAACCTGCAGGTCACCTGGAAGATGGTTACATT
 GAATTGAGCACCAGCGATAGCGGCAGCCAAATTTTAAATCTCCACAGACGTATATGGAT
 GGTTTACTGCATTATGTATCTGTAATAAGCGACAACCTCTGGACTACGGCTTCTCATCGAT
 GACCAGCTTCTGAGAAAATAGCAAAAGGCTAAAACACATTTCAAGTCCCGGCAGTCTCTG
 CGTCTGGGCGGGAGCAATTTTGGGGTGTATTAGCAATGTTTTTGTCCAGAGGTTATCA
 CTGAGTCTGAAGTCTAGATTTGACCAGTAACTCTCTCAAGAGAGATGTGTCCCTGGGA
 GGCTGCAGTTTAAACAAACCACCTTTTCTAATGTTGCTTAAAGGTTTACCAGGTTTAAAC
 AAGACCAAGACTTTTTCGATCAACCAGCTGTGACAGGACACACCAAGTGGCCTCCCAAGG
 AGCGTGAAGGTGTGGCAAGATGCTTGTCAACACTTCCAAGACCCAGGCCAATCATGGA
 GCCCTCCAGTTTGGGGACATTCCACAGCCACTTGTATTCAAGCTTCTCAGGAGCTG
 CTGAAAACCCAGGTCACAGTTTGTCTGTGGACATGCAGACAACATCCTCCAGAGGACTGGTG
 TTTACACAGGGCACTAAGAAGTCTTTTATGGCTTTTATCTTTCAAAAGGACGTCTGGTC
 TTTGCACTGGGGACAGATGGGAAAAAATGAGGATCAAAAGCAAGGAGAAATGCAATGAT
 GGGAAATGGCACACGGTGGTGTGGCCATGATGGGAAAAGGGGCGCTTGGTTGTGGAT
 GGACTGAGGGCCCGGAGGGAAGTTTGCCTGGAACCTCCACCATCAGCATCAGAGCGCCA
 GTTTACCTGGGATCACCTCCATCAGGGAAACAAAGAGCCTCCCCACAAACAGCTTTGTG
 GGATGCCTGAAGAACTTTGAGCTGGATTCAAACCTTGTATACCCCTTCTTCAAGCTTC
 GGGGTGCTTCTGCTTGGTGGTCTTTGGAGAAAGGCATTTATTTCTGTAAGAAGGA
 GGTGATGTCGCTTGGCTCACTCTGTATTGTTGGGGCCAGAATTAAGCTTGTTCAGC
 ATCCGCCAAGAAGTCTCACTGGGATCCTAATACACATCGGAAGTCAAGCCGGGAAGCAC
 TTATGTGTTTACCTGGAGGCAGGAAAGGTCACGGCCTCTATGGACAGTGGGGCAGGTGGG
 ACCTCAACGTCGGTACACCAAAGCAGTCTCTGTGTGATGGACAGTGGCACTCGGTGGCA
 GTCACCATAAAACAACACATCCTGCACCTGGAAGTGGACACAGACAGTAGCTACACAGCT
 GGACAGATCCCTTCCACCTGCCAGCACTCAAGAGCCACTACACCTTGGAGGTGCTCCA

GCCAATTTGACGACACTGAGGATCCCTGTGTGGAATCATTCTTTGGCTGTCTGAGGAAT
 ATTCATGTCAATCACATCCCTGTCCCTGTCACTGAAGCCTTGAAGTCCAGGGGCCTGTC
 AGTCTGAATGGTTGTCCTGACCAG

Restriction Sites:	Please inquire
ACCN:	NM_001127718
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001127718.1</u> , <u>NP_001121190.1</u>
RefSeq Size:	5455 bp
RefSeq ORF:	5007 bp
Locus ID:	3909
UniProt ID:	<u>Q16787</u>
Cytogenetics:	18q11.2
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer

Gene Summary:

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]

Transcript Variant: This variant (4) has a distinct 5' UTR, lacks exons in the 5' coding region, lacks an internal in-frame exon, and uses an alternate start codon compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Variants 2 and 4 encode 'a' isoforms. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.