

Product datasheet for **SC336412**

LAMA3 (NM_001302996) Human Untagged Clone

Product data:

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



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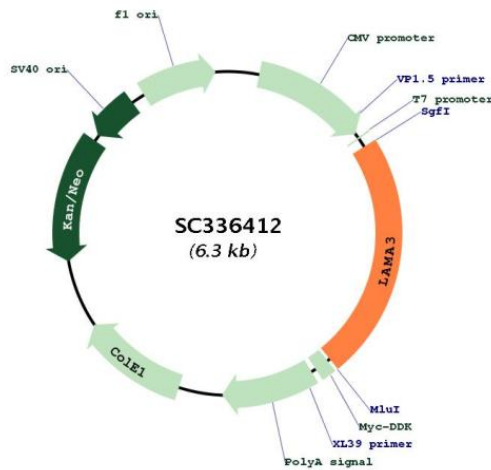
Fully Sequenced ORF: >SC336412 representing NM_001302996.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCGGCCCGCGGCTCGGGTCTGGGCACTGGGGCCAGTACTGCCGCCGACGCCGTGCTCCTG
CTGGTACTGCGGGTCTGCCAGCCTGCGGGGCGACCGCTCGGGATCCCGGGCCGCGGCCGGCTCAGC
CTTCACCCGACTTACTTCAACCTGGCCGAGGCGCGAGGATTTGGGCCACCGCCACTGCGGGGAGAGG
GGACCCGCGAGGGGAGGCCCCAGCCGAGCTCTACTGCAAGTTGGTCTGGGGGCCCCACCGCCAGGC
AGCGGCCACACCATCCAGGGCCAGTTCTGTGACTATTGCAATTCTGAAGACCCAGGAAAGCACATCCT
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CAATATTTGCTCATTCTAAAGTAGACTGTTTAAAAGAATTTGGCGGGAGGCAAATATGGCTGTCACC
CGGGATGATGATGACTTTGTGTTACTGAATATCCCGTATTGTACCTTTGAAAATGGTGAAGTTGTG
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CAGCGAGATCCAAGTCACTCGCGGTATTATTACAGCATAAAGGACATCAGCATTGGTGGGCAGTGT
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GCATGTAATGGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCC
  
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001302996

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| Insert Size: | 1467 bp |
| 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). |
| 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_001302996.1 |
| RefSeq Size: | 1749 bp |
| RefSeq ORF: | 1467 bp |
| Locus ID: | 3909 |
| UniProt ID: | Q16787 |
| Cytogenetics: | 18q11.2 |
| Protein Families: | Druggable Genome, Secreted Protein |
| Protein Pathways: | ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer |
| MW: | 54.1 kDa |
| Gene Summary: | <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> <p>Transcript Variant: This variant (5, also known as LN1) lacks a large portion of the 3' coding region and has a distinct 3' coding region and 3' UTR compared to variant 1. The encoded isoform (5, also known as LaNt alpha31) has a distinct and shorter C-terminus than isoform 1. This variant is supported by experimental data in PMID:19773554.</p> |