

Product datasheet for **RG238518**

LAMA3 (NM_001302996) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAMA3 (NM_001302996) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LAMA3
Synonyms:	BM600; E170; LAMNA; LOCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG238518 representing NM_001302996.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGGGCGCCCGCGGCTCGGGTTCGGGCACTGGGCACTGCGCCGACGCCGCTGCTCCTG
CTGGTACTGCGGGTCTGCCAGCCTCGGGGCGACCGCTCGGGATCCCGGGCCGCGCCGGCTCAGC
CTTCACCCGACTTACTTCAACCTGGCCGAGGCGCGAGGATTTGGGCCACCGCCACTGCGGGGAGAGG
GGACCCGCGAGGGGAGGCCCCAGCCGAGCTCTACTGCAAGTTGGTTCGGGGGCCCCACCGCCAGGC
AGCGGCCACACCATCCAGGGCCAGTTCTGTGACTATTGCAATTCTGAAGACCCAGGAAAGCACATCCT
GTCACCAATGCCATCGATGGATCTGAACGTTGGTGGCAAAGCCCTCCCCTGTCCTCAGGCACACAGTAC
AACAGAGTCAACCTCACCTTGGATCTGGGGCAGCTCTCCATGTGGCCTATATTTAATCAAATTTGCA
AATTCTCCTCGCCCTGATCTTTGGGTCTTGAAAGATCTGTAGACTTTGGAAGCACCTACTACCATGG
CAATATTTGCTCATTCTAAAGTAGACTGTTTAAAAGAATTTGGGCGGGAGGCAAATATGGCTGTCACC
CGGGATGATGATGACTTTGTGTTACTGAATATCCCGTATTGTACCTTTGAAAATGGTGAAGTTGTG
GTGTCCTTGATAAACGGTCGTCCAGGTGCAAAAAATTTACTTTCTCTCACACCCGAGGGAGTTTACC
AAGGCAACAAACATCCGCTTGCCTTTCTTAGAACCAATACGCTTCTTGACACCTCATCTCCAAGCC
CAGCGAGATCCAAGTGTCACTCGCGGTATTATTACAGCATAAAGGACATCAGCATTGGTGGCAGTGT
GTTTGCAATGGCCATGCTGAAGTGTGCAATATAAAACATCCTGAAAACTGTTTCGGTGTGAATGCCAG
CACCACACCTGTGGGAGACGTGTGATCGCTGTCACAGGGTACAATCAGAGGCGCTGGCGGCCCGCC
GCTTGGGAGCAGACGACGAGTGTGAAGCATGCAACTGCCACGGCCATGCCAGCAACTGTTACTATGAT
CCAGATGTTGAGCGGCAGCAGGCAAGCTTGAATACCCAGGGCATCTATGCTGGTGGAGGGTCTGCATT
AACTGTACGACACAACACAGCTGGAGTAACTGTGAACAGTGTGCTAAGGGCTATTACCGCCCTTATGGG
GTTCCAGTGGATGCCCTGATGGCTGCATCCGTAAAGTTTCATTTCAAGTTGGTGTATCTTAGCCTGTGT
GTACTGCCTCAGCGAAGTCATCAGGCTAACTTTGGATCAGTTAATAAATTCTTCTCATGCCCTCTCTCTT
CAGAGTATTAGTTGTGCTCGCTATGTGACCTCAGTCACCTACACAGTCTCTTTGAATTTGGATTTATT
GCATGTAATGGAAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238518
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAAAARPRGRALGPVLPPTPLLLLVLRLVPACGATARDPGAAAGLSLHPTYFNLAEAAARIWATATCGER
GPGEGRPQPELYCKLVGGPTAPGSGHTIQGQFCDYCNSEDPRKAHPVTNAIDGSRWWQSPPLSSGTQY
NRVNLTLDLGQLFHVAYILIKFANSRPDLWVLERSVDFGSTYSPWQYFAHASKVDCLKEFGREANMAVT
RDDDVLVTEYSRIVPLENGEVVSLINGRPGAKNFTFSHTLREFTKATNIRLRLRNTLLGHLISKA
QRDPTVTRRRYYYSIKDISIGGQVCNGHAEVCNINNPEKLFRCCEQHHTCGETCDRCCTGYNQRRWRPA
AWEQSHECEACNCHGHASNCYDPPDVERQASLNTQGIYAGGGVCINCQHNTAGVNCEQCAKGYRYPYG
VPVDAPDGCIRKHFHKL VYLSLCLVLPQRSHQANFGSVNNFLHALSLQSI SCARYVTSVITYVSLNFGFI
ACKWK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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).

RefSeq: [NM_001302996.2](#)

RefSeq Size: 1749 bp

RefSeq ORF: 1467 bp

Locus ID: 3909

UniProt ID: [Q16787](#)

Cytogenetics: 18q11.2

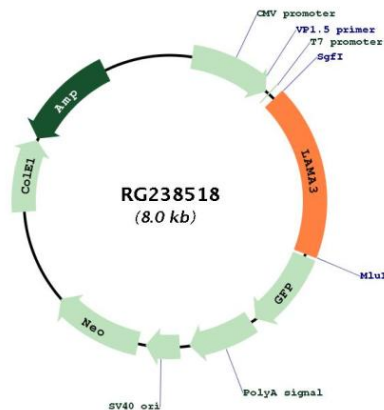
Protein Families: Druggable Genome, Secreted Protein

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

MW: 54.6 kDa

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]

Product images:

Circular map for RG238518