

## Product datasheet for **RG210050**

### Laminin 5 (LAMB3) (NM\_001017402) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Laminin 5 (LAMB3) (NM_001017402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LAMB3
Synonyms:	A11A; BM600-125KDA; LAM5; LAMNB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210050 representing NM_001017402 Red=Cloning site Blue=ORF Green=Tags(s)

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CCACAGTGAACCCAGTTCACAGGGCAGTGCCCTGTCGGGAAGGCTTTGGTGGCCTGATGTGCAGCGCTG  
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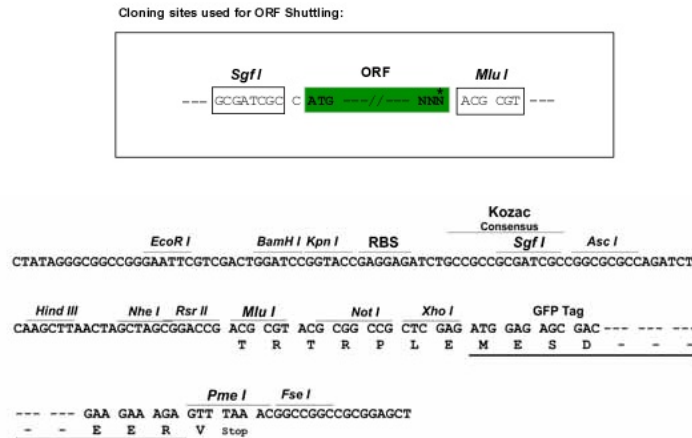
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Protein Sequence: >RG210050 representing NM\_001017402  
 Red=Cloning site Green=Tags(s)

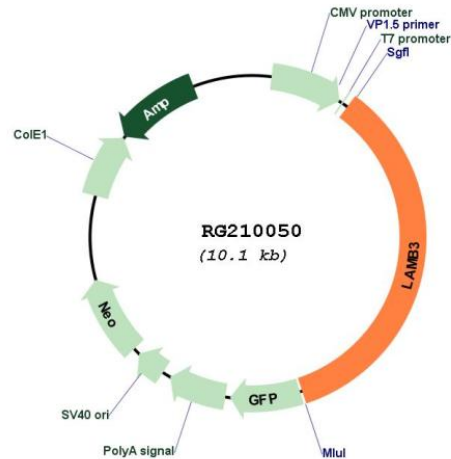
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 EMMDRMKDMELELLRGSQAIMLRSADLTGLEKRVQIRDHINGRVLVYATCK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI  
 Cloning Scheme:



## Plasmid Map:



**ACCN:** NM\_001017402

**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:**

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\\_001017402.1](#), [NP\\_001017402.1](#)

**RefSeq Size:** 4339 bp

**RefSeq ORF:** 3519 bp

**Locus ID:** 3914

**UniProt ID:** [Q13751](#)

**Cytogenetics:** 1q32.2

<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>Gene Summary:</b>	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]