

## Product datasheet for **RG209795**

### 67kDa Laminin Receptor (RPSA) (NM\_002295) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	67kDa Laminin Receptor (RPSA) (NM_002295) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	67kDa Laminin Receptor
Synonyms:	37LRP; 67LR; ICAS; LAMBR; lamR; LAMR1; LBP; LBP/p40; LRP; LRP/LR; NEM/1CHD4; p40; SA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209795 representing NM_002295 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCC  
ACTTAGGTGGACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTA  
TATCATAAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGAATTGTTGCCATTGAAAAC  
CCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGCTGTGCTGAAGTTTGCTGCTGCCA  
CTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTACTAACCAGATCCAGGCAGCCTCCG  
GGAGCCACGGCTTCTTGTGGTACTGACCCAGGGCTGACCACCGCCTCTCACGGAGGCATCTTATGTT  
AACCTACCTACCATTTGCGCTGTGTAACACAGATTCCTCCTGCGCTATGTGGACATTGCCATCCCATGCA  
ACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGG  
CACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCTGAAGAGATT  
GAAAAAGAAGGGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTC  
CCGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTACAGGTGCCCTCTGT  
GCCTATTCAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAGCTCCC  
ACTGCTCAGGCCACTGAATGGTAGGAGCAACCACTGACTGGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209795 representing NM\_002295  
 Red=Cloning site Green=Tags(s)

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIEN  
 PADVSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPADHQPLTEASYV  
 NLPTIALCNTDSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDP E E I  
 EKEGQAAA E KAVTKEEFQGEWTAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAP  
 TAQATEWVGATTDWS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002295

**ORF Size:** 885 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\\_002295.4](#), [NP\\_002286.2](#)

**RefSeq Size:** 1155 bp

**RefSeq ORF:** 888 bp

**Locus ID:** 3921

**UniProt ID:** [P08865](#)

**Cytogenetics:** 3p22.1

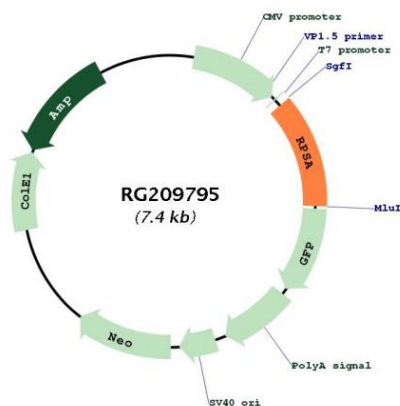
**Domains:** Ribosomal\_S2

**Protein Families:** Druggable Genome

**Protein Pathways:** Ribosome

**Gene Summary:** Laminins, a family of extracellular matrix glycoproteins, are the major noncollagenous constituent of basement membranes. They have been implicated in a wide variety of biological processes including cell adhesion, differentiation, migration, signaling, neurite outgrowth and metastasis. Many of the effects of laminin are mediated through interactions with cell surface receptors. These receptors include members of the integrin family, as well as non-integrin laminin-binding proteins. This gene encodes a high-affinity, non-integrin family, laminin receptor 1. This receptor has been variously called 67 kD laminin receptor, 37 kD laminin receptor precursor (37LRP) and p40 ribosome-associated protein. The amino acid sequence of laminin receptor 1 is highly conserved through evolution, suggesting a key biological function. It has been observed that the level of the laminin receptor transcript is higher in colon carcinoma tissue and lung cancer cell line than their normal counterparts. Also, there is a correlation between the upregulation of this polypeptide in cancer cells and their invasive and metastatic phenotype. Multiple copies of this gene exist, however, most of them are pseudogenes thought to have arisen from retropositional events. Two alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209795