

Product datasheet for **RG226967**

LGALS12 (NM_001142535) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LGALS12 (NM_001142535) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LGALS12
Synonyms:	GAL12; GRIP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226967 representing NM_001142535 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCAGCCCAGTGGGGCAGGGCTCCTGGAACGAGGATCTACAGTTGGAGTTGCCCCACTGTCATGT
CACCTGGAGAAAACTGGACCAATTCTGACAGCTTCATTCTGCAACCACCAGTCTCCACCCGGTGGT
TCCTTATGTCACGACGATTTTTGGAGGCCTGCATGCAGGCAAGATGGTCATGCTGCAAGGAGTGGTCCCT
CTAGATGCACACAGGTTTCAGGTGGACTCCAGTGTGGCTGCAGCCTGTGTCCCCGGCCAGATATCGCT
TCCACTTCAACCCTCGTTCCATACCACCAAGCCCATGTCATCTGCAACACCCTGCATGGTGGACGCTG
GCAAAGGGAGGCCCGGTGGCCCCACCTGGCCCTGCGAAGAGGCTCCAGCTTCCATCCTCTTTCTCTTC
GGGAATGAGGAAGTGAAGGTGAGTGTGAATGGACAGCACTTTCTCCACTCCGGTACCGGCTCCCACTGT
CTCATGTGGACACGCTGGGTATATTTGGTGAATCCTGGTAGAGGCTGTTGGATTCTGAACATCAATCC
ATTTGTGGAGGGCAGCAGAGAGTACCCAGCTGGACATCCTTCTGCTGATGAGCCCCAGGCTGGAGGTG
CCCTGCTCACATGCTCTCCCCAGGGTCTCTCGCTGGGCAGGTCATCATAGTACGGGGACTGGTCTTGC
AAGAGCCGAAGCATTTTACTGTGAGCCTGAGGGACCAGGCTGCCATGCTCCTGTGACACTCAGGGCCTC
TTTCGCAGACAGAACTTGCCCTGGATCTCCCCTGGGGCAGAAAGAACTGATCTCAGCCCCCTTCTC
TTTTACCCCAGAGATTCTTTGAGGTGCTGCTCCTGTTCCAGGAGGGAGGCTGAAGCTGGCGCTCAATG
GGCAGGGCTGGGGCCACCAGCATGAACCAGCAGGCCCTGGAGCAGCTGCGGGAGCTCCGGATCAGTGG
AAGTGTCAGCTCTACTGTGTCCACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG226967 representing NM_001142535
Red=Cloning site Green=Tags(s)

MSQPSGGRAPGTRIYSWSCPTVMSPGEKLDPIPDSFILQPPVFHPVVPYVTTIFGGLHAGKMVMLQGVPV
 LDAHRFQVDFQCGCSLCPRPDI AFHFNPRFHHTTKPHVICNTLHGGRWQREARWPHLALRRGSSFLILFLF
 GNEEVKYSVNGQHFLHFRYRLPLSHVDTLGIFGDILVEAVGFLNINPFVEGSREYPAGHPFLLMSRPLEV
 PCSHALPQGLSPGQVIIVRGLVLQEPKHFTVSLRDQAHAHVTLRASFA DRTLAWISRWGQKKLISAPFL
 FYPQRF FEVLLL FQEGGLK LALNGQGLGATSMNQQALEQLREL RISGSVQLYCVHS

TRTRPLE - GFP Tag - V

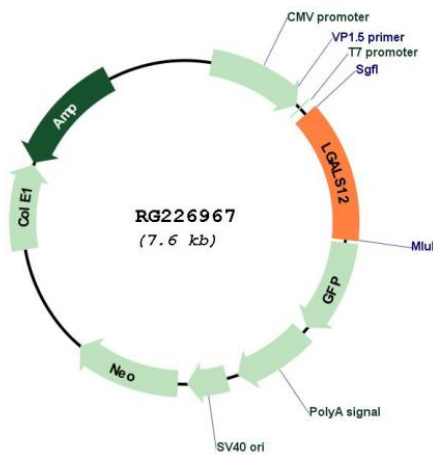
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001142535

ORF Size: 1011 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_001142535.1 , NP_001136007.1
RefSeq Size:	1736 bp
RefSeq ORF:	948 bp
Locus ID:	85329
UniProt ID:	Q96DT0
Cytogenetics:	11q12.3
Gene Summary:	This gene encodes a member of the galectin superfamily, a group of beta-galactoside-binding proteins with conserved carbohydrate recognition domains. The related mouse protein is a primary regulator of the early stages of adipose tissue development. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, May 2010]