

## Product datasheet for **RG229677**

### Galectin 3 (LGALS3) (NM\_001177388) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Galectin 3 (LGALS3) (NM\_001177388) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Galectin 3  
**Synonyms:** CBP35; GAL3; GALBP; GALIG; L31; LGALS2; MAC2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229677 representing NM\_001177388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGACAATTTTCGCTCCATGATGCGTTATCTGGTCTGGAAACCCAAACCCTCAAGGATGGCCTG  
 GCGCATGGGGGAACCAGCCTGCTGGGGCAGGGGCTACCCAGGGGCTTCCTATCTGGGGCTACCCCGG  
 GCAGGCACCCCGAGGGCTTATCTGGACAGGCACCTCCAGGCGCTACCTGGAGCACCTGGAGCTTAT  
 CCCGGAGCACCTGCACCTGGAGTCTACCCAGGGCCACCCAGCGCCCTGGGGCTACCCATCTTCTGGAC  
 AGCCAAGTGCCACCGAGCCTACCTGCCACTGGCCCTATGGCGCCCTGCTGGCCACTGATTGTGCC  
 TTATAACCTGCCTTTCCTGGGGAGTGGTGCCTCGCATGCTGATAACAATTCTGGGCACGGTGAAGCCC  
 AATGCAAACAGAATTGCTTTAGATTTCCAAAGAGGGAATGATGTTGCCTTCCACTTAAACCCACGCTTCA  
 ATGAGAACAACAGGAGAGTCATTGTTGCACTTACATGTGTAAGGTTTCATGTTCACTGTGAGTGAAAA  
 TTTTACATTCATCAATATCCCTCTTGAAGTCATCTACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG229677 representing NM\_001177388  
 Red=Cloning site Green=Tags(s)

MADNFSLHDALSGSGNPNPQGWPGAWGNQPAGAGGYPGASYPGAYPGQAPPAYPGQAPPAYPGAPGAY  
 PGAPAPGVYPPSPGPGAYPSSGQPSATGAYPATGPYGPAGPLIVPYNLPLPGGVVPRMLITILGTVKP  
 NANRIALDFQRGNDVAFHFNPRFNENRRVIVCTYMCKGMFTVSENFYIHQYPSCKSSST

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001177388

**ORF Size:** 600 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001177388.1](#), [NP\\_001170859.1](#)

RefSeq Size: 744 bp

RefSeq ORF: 603 bp

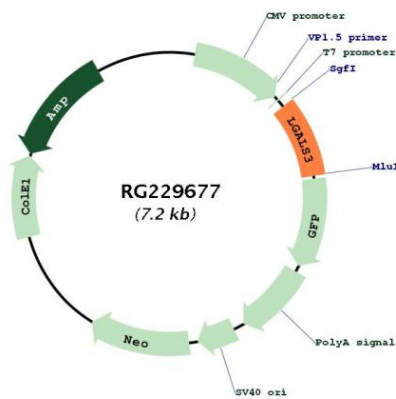
Locus ID: 3958

Cytogenetics: 14q22.3

Protein Families: Secreted Protein

**Gene Summary:** This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2014]

**Product images:**



Circular map for RG229677