

Product datasheet for **RG200026**

GAL4 (LGALS4) (NM_006149) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GAL4 (LGALS4) (NM_006149) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GAL4
Synonyms: GAL4; L36LBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200026 representing NM_006149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTATGTCCCGCACCGGGCTACCAGCCACCTACAACCCGACGCTGCCTTACTACCAGCCCATCC
 CGGGCGGGCTCAACGTGGGAATGTCTGTTTACATCCAAGGAGTGGCCAGCGAGCACATGAAGCGTTCTT
 CGTGAACCTTTGTGGTTGGGCAGGATCCGGGCTCAGACGTCGCCTTCCACTTCAATCCGCGGTTTGACGGC
 TGGGACAAGGTGGTCTTCAACACGTTGCAGGGCGGAAGTGGGGCAGCGAGGAGAGGAAGAGGAGCATGC
 CCTTCAAAAAGGGTGCCGCTTTGAGCTGGTCTTCATAGTCCTGGCTGAGCACTACAAGGTGGTGGTAAA
 TGGAAATCCCTTCTATGAGTACGGGCACCGGCTTCCCCTACAGATGGTCAACCCACCTGCAAGTGGATGGG
 GATCTGCAACTTCAATCAATCAACTTCATCGGAGGCCAGCCCCTCCGGCCCCAGGGACCCCCGATGATGC
 CACCTTACCCTGGTCCCGGACATTGCCATCAACAGCTGAACAGCCTGCCACCATGGAAGGACCCCCAAC
 CTTCAACCCGCTGTGCCATATTTGGGAGGCTGCAAGGAGGGCTCACAGCTCGAAGAACCATCATCATC
 AAGGGCTATGTGCTCCACAGGCAAGAGCTTTGCTATCAACTTCAAGGTGGGCTCCTCAGGGGACATAG
 CTCTGCACATTAATCCCCGCATGGGCAACGGTACCGTGGTCCGGAACAGCCTTCTGAATGGCTCGTGGG
 ATCCGAGGAGAAGAAGATCACCCACAACCCATTTGGTCCCGGACAGTTCTTTGATCTGTCCATTGCTGT
 GGCTTGGATCGCTCAAGGTTTACGCCAATGCCAGCACCTTTTGACTTTGCCATCGCCTCTCGGCC
 TCCAGAGGGTGGACACATTGAAATCCAGGGTATGTACCTTGTCTATGTCCAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200026 representing NM_006149
 Red=Cloning site Green=Tags(s)

MAYVVPAGYQPTYNPTLPYYQPIPGGLNVGMSVYIQGVASEHMKRFFVNFVVGQDPGSDVAFHFNPRFDG
 WDKVVFNTLQGGKWGSEERKRSMPFKKGAAFELVFI VLAEHYKVVVNGNPFYEYGHRLPLQMVTHLQVDDG
 DLQLQSFNFIGGQPLRPQGPPMPPYPGPGHCHQQLNSLPTMEGPPTFNPPVPYFGRLLQGLTARRTIII
 KGYVPPTGKSFAINFKVGSSEGDIALHINPRMNGTVVRNSLLNGSWGSEKKITHNPFPGQFFDLSIRC
 GLDRFKVYANGQHLDFDAHRLSAFQRVDTLEIQGDVTLSYVQI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_006149

ORF Size: 969 bp

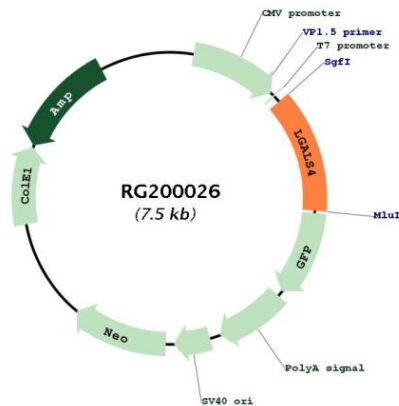
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_006149.4](#)
- RefSeq Size:** 1117 bp
- RefSeq ORF:** 972 bp
- Locus ID:** 3960
- UniProt ID:** [P56470](#)
- Cytogenetics:** 19q13.2
- Gene Summary:** The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. The expression of this gene is restricted to small intestine, colon, and rectum, and it is underexpressed in colorectal cancer. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200026