

Product datasheet for **RG207053**

Galanin (GAL) (NM_015973) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Galanin (GAL) (NM_015973) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Galanin
Synonyms: ETL8; GAL-GMAP; GALN; GLNN; GMAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207053 representing NM_015973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCGAGGCAGCGCCCTCTTCTCGCCTCCCTCCTCGCCGCGGCCCTTTCTGCCTCTGCGGGG
 TCTGGTCGCCGGCCAAGGAAAAACGAGGCTGGACCCTGAACAGCGCGGGCTACCTGCTGGGCCACATGC
 CGTTGGCAACCACAGGTCATTACGCGACAAGAATGGCCTCACCAGCAAGCGGGAGCTGCGGCCCGAAGAT
 GACATGAAACCAGGAAGCTTTGACAGGTCCATACCTGAAAACAATATCATGCGCACAATCATTGAGTTTC
 TGTCTTTCTTGATCTCAAAGAGGCCGGTGCCCTCGACCGCCTCCTGGATCTCCCGCCGCGAGCCTCCTC
 AGAAGACATCGAGCGGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207053 representing NM_015973
 Red=Cloning site Green=Tags(s)

MARGSALLLASLLAAALASAGLWSPAKEKRGWTLNSAGYLLGPHAVGNHRSFSDKNGLTSKRELRPED
 DMKPGSFDRIIPENNIMRTIIEFLSFLHLKEAGALDRLLDLPAASSIEDIERS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


[View online »](#)

Cloning Scheme:



ACCN: NM_015973

ORF Size: 369 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.

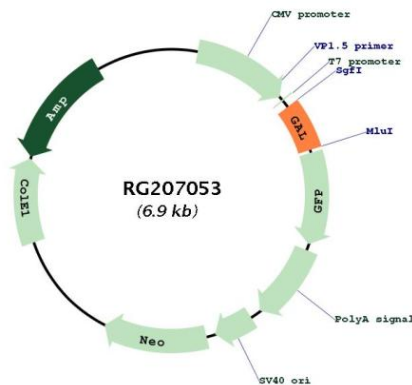
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015973.2](#), [NP_057057.2](#)

RefSeq Size: 765 bp

RefSeq ORF:	372 bp
Locus ID:	51083
UniProt ID:	P22466
Cytogenetics:	11q13.2
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a neuroendocrine peptide that is widely expressed in the central and peripheral nervous systems and also the gastrointestinal tract, pancreas, adrenal gland and urogenital tract. The encoded protein is a precursor that is proteolytically processed to generate two mature peptides: galanin and galanin message-associated peptide (GMAP). Galanin has diverse physiological functions including nociception, feeding and energy homeostasis, osmotic regulation and water balance. GMAP has been demonstrated to possess antifungal activity and hypothesized to be part of the innate immune system. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RG207053