

## Product datasheet for **RC207053**

### 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:** Myc-DDK  
**Symbol:** Galanin  
**Synonyms:** ETL8; GAL-GMAP; GALN; GLNN; GMAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC207053 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCGAGGCAGCGCCCTCTCTCGCCTCCCTCCTCGCCGCGGCCCTTTCTGCCTCTGCGGGC  
TCTGGTCGCCGCAAGGAAAAACGAGGCTGGACCCTGAACAGCGCGGGCTACCTGCTGGGCCACATGC  
CGTTGGCAACCACAGGTCATTACGCGACAAGAATGGCCTCACCAGCAAGCGGGAGCTGCGGCCGAAGAT  
GACATGAAACCAGGAAGCTTTGACAGGTCCATACCTGAAAACAATATCATGCGCACAATCATTGAGTTTC  
TGTCTTTCTTGCATCTCAAAGAGGCGGTGCCCTCGACCGCTCCTGGATCTCCCGCCGCGAGCCTCCTC  
AGAAGACATCGAGCGGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207053 protein sequence  
**Red=Cloning site Green=Tags(s)**  
MARGSALLLASLLAAALASAGLWSPAKEKRWTLNSAGYLLGPHAVGNHRFSKDKNGLTSKRELRPED  
DMKPGSFDRSIPENNIMRTIIEFLSFLHLKEAGALDRLLDLPAASSEDIERS

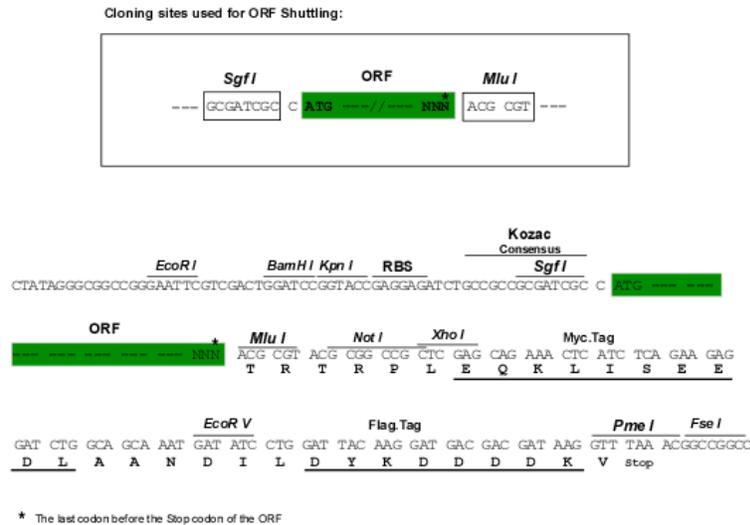
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6018\\_b05.zip](https://cdn.origene.com/chromatograms/mk6018_b05.zip)

**Restriction Sites:** SgfI-MluI



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**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.

**RefSeq:** [NM\\_015973.2](#), [NP\\_057057.2](#)

**RefSeq Size:** 778 bp

**RefSeq ORF:** 372 bp

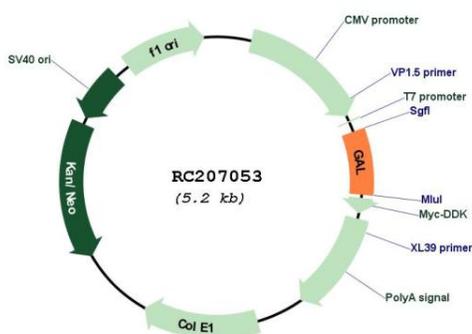
**Locus ID:** 51083

**UniProt ID:** [P22466](#)

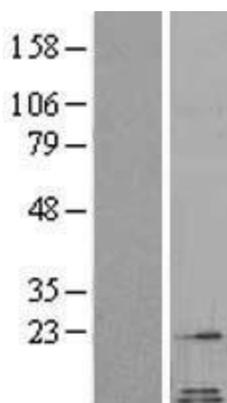
**Cytogenetics:** 11q13.2  
**Protein Families:** Secreted Protein, Transmembrane  
**MW:** 13.3 kDa

**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]

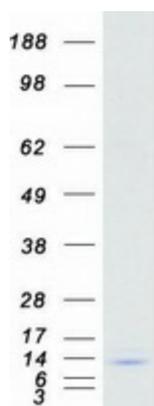
**Product images:**



Circular map for RC207053



Western blot validation of overexpression lysate (Cat# [LY402479]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GAL protein (Cat# [TP307053]). The protein was produced from HEK293T cells transfected with GAL cDNA clone (Cat# RC207053) using MegaTran 2.0 (Cat# [TT210002]).