

Product datasheet for **SC122834**

Galanin (GAL) (NM_015973) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Galanin (GAL) (NM_015973) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Galanin |
| Synonyms: | ETL8; GAL-GMAP; GALN; GLNN; GMAP |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene sequence for NM_015973 edited CCACGCGTCCGGGACCCGGCCCGCGCCTTCTGCCCTGCTGCCGGCCGCGCCATGCGGTG AGCGCCCCAGGCCGCGCAGAGCCCCACCCGACCCGGCCCGACGCCCGGACCTGCCGCCAGA CCCGCCACCGCACCCGGACCCCGACGCTCCGAACCCGGGCGCAGCCGAGCTCAAGATGG CCCGAGGCAGCGCCTCCTTCTCGCCTCCCTCCTCGCCGCGGCCCTTCTGCCTCTG CGGGGCTCTGGTCGCGGCCAAGGAAAAACGAGGCTGGACCCTGAACAGCGCGGGCTACC TGCTGGGCCACATGCCGTTGGCAACCACAGGTCATTCAGCGACAAGAATGGCCTACCA GCAAGCGGGAGCTGCGGCCGAAGATGACATGAAACCAGGAAGCTTTGACAGGTCCATAC CTGAAAACAATATCATGCGCACAATCATTGAGTTTCTGTCTTTCTGCATCTCAAAGAGG CCGGTGCCTCGACCGCCTCCTGGATCTCCCCGCCGAGCCTCCTCAGAAGACATCGAGC GGTCTGAGAGCCTCCTGGGCATGTTTGTCTGTGTGCTGTAACCTGAAGTCAAACCTTAA GATAATGGATAATCTTCGGCCAATTTATGCAGAGTCAGCCATTCTGTTCTTTGCCTT GATGTTGTGTTGTTATCATTTAAGATTTTTTTTTTTTGGTAATTTTTGAGTGGCAAAA TAAAGAATAGCAATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA |



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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_015973 unedited NNNAACGTACANAATTTGTAATACGACTCACTATNAGGGGCGCCGCGATTCCCAGGATA TCGTCGACCCACGCGTCCGGGACCCGGCCCGCGCTTCTGCCCTGTGCCGGCCGCGCC ATGCGGTGAGCGCCCCAGGCCGCCAGAGCCACCCGACCCGGCCCGACGCCCGGACTGC CGCCAGACCCGCCACCCGACCCGGACCCGACGCTCCGAACCCGGGCGCAGCCGAGCT CAAGATGGCCCGAGGCAGCGCCCTCCTTCTCGCTCCCTCCTCCTCGCCGCGCCCTTTC TGCCTCTGCGGGGCTCTGGTCGCCGGCCAAGGAAAAACGAGGCTGGACCTGAACAGCGC GGGCTACCTGCTGGGCCACATGCCGTTGGCAACCACAGGTCATTAGCGACAAGAATGG CCTCACCAGCAAGCGGGAGCTGCGGCCCGAAGATGACATGAAACCAGGAAGCTTTGACAG GTCATACCTGAAAAAATATCATGCGCACAATCATTGAGTTTCTGTCTTTCTTGATCT CAAAGAGCGCGTGCCCTCGACCGCTCCTGGATCTCCCGCCGCGAGCCTCCTCAGAAGA CATCGAGCGGTCTGAGAGCCTCCTGGCATGTTTGTCTGTGTGTGTAACCTGAAGTCA AACCTTAAGATAATGGATAATCTTCGGCAATTTATGCAGAGTCAGCCATTCTGTTCTC TTTGCCTTGATGTTGTGTTGTTATCATTTAAGATTTTTTTTTTTTGGTAATTATTTGAG TGGCANAATAAGAAATAGCATTAAANAAAAAAAAAACANANAAAAAAAAAAGGCGGCCG CGGTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCTGTGACCTNCCCAGTGCC TCTCCTGGGCTG |
| Restriction Sites: | Please inquire |
| ACCN: | NM_015973 |
| Insert Size: | 765 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_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]