

Product datasheet for **SC303390**

GALR2 (NM_003857) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GALR2 (NM_003857) Human Untagged Clone
Tag: Tag Free
Symbol: GALR2
Synonyms: GAL2-R; GALNR2; GALR-2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003857 edited
GCTGCAGGAGCCCGGGCAGCCTCGGGGTCAGCGCACCATGAACGTCTCGGGCTGCCAG
GGGCCGGGAACCGGAGCCAGGCGGGCGGGGAGGCTGGCACCCGAGGCGGTATCG
TGCCCTGCTCTTCGCGCTCATCTTCTCGTGGGACCGTGGGCAACACGCTGGTGTGG
CGGTGCTGCTGCGCGGGCCAGGCGGTGAGCACTACCAACCTGTTATCCTTAACCTGG
GCGTGGCCGACCTGTGTTTATCCTGTGCTGCGTGCCCTCCAGGCCACCATCTACACC
TGGACGGCTGGGTGTTCCGCTCGCTGCTGTGCAAGGCGGTGCACTTCTCATCTTCTCA
CCATGCACGCCAGCAGCTTACGCTGGCCGCGTCTCCCTGGACAGGTATCTGGCCATCC
GCTACCCGCTGCACTCCCGGAGCTGCGCACGCCCTCGAAACGCGCTGGCAGCCATCGGGC
TCATCTGGGGGCTGTCGCTGCTTCTCCGGGCCCTACCTGAGCTACTACGCCAGTCCG
AGCTGGCCAACCTGACCGTGTGCCATCCCGCGTGGAGCGCCCTCGCCGCGCGCCATGG
ACATCTGCACCTTCGTCTTCAGCTACCTGCTTCTGTGCTGGTTCTCGGCCTGACCTACG
CGCGCACCTTGCGCTACCTTGGCGCGCGTCCGACCCGGTGGCCGCGGGCTCGGGTGCC
GGCGCGCAAGCGCAAGGTGACACGCATGATCCTCATCGTGGCCGCGCTTCTGCTCT
GCTGGATGCCCCACCACGCGTCACTCTGCGTGTGGTTCGGCCAGTTCCTCGCTCACGC
GCGCCACTTATGCGCTTCGCATCCTCTCGCACCTGGTCTCCTACGCCAACTCCTGCGTCA
ACCCATCGTTTACGCGTGGTCTCCAAGCACTCCGCAAAGGCTTCCGCAGCATCTGCG
CGGGCTGCTGGCCGTGCCAGGCGGAGCCTCGGGCCGTGTGTGCGCTGCCGCGCGGG
GCACCCACAGTGGCAGCGTGTGGAGCGGAGTCCAGCGACCTGTTGCACATGAGCGAGG
CGGCGGGGCCCTTCGTCCCTGCCCGCGCTTCCAGCCATGCATCCTCGAGCCCTGTC
CTGGCCGCTCCTGGCAGGGCCAAAGGCAGGCGACAGCATCCTGACGGTTGATGTGGCCT
GAAAGCACTTAGCGGGCGCGCTGGGATGTCACAGAGTTGGAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003857 unedited NAACGTTTCGCAATTTGTATACGACTCACTATAGGCGGCCGCGATTGCGCCCTTACCCANACG GCTGCAGGAGCCCGGGCAGCCTCGGGGTGAGCGGCACCATGAACGTCTCGGGTGCACG GGGCCGGGAACGCGAGCCAGGCGGGCGGGGGAGGCTGGCACCCGAGGCGGTATCG TGCCCCGCTCTTCGCGCTCATCTTCTCGTGGCACCGTGGCAACACGCTGGTGTGG CGGTGCTGCTGCGCGGCGCCAGGCGGTGAGCACTACCAACCTGTTTCATCCTTAACCTGG GCGTGGCCGACCTGTGTTTCATCCTGTGCTGCGTGCCCTCCAGGCCACCATCTACACCC TGGACGGCTGGGTGTTTCGGCTCGCTGCTGTGCAAGGCGGTGCACTTCTCATCTTCTCA CCATGCACGCCAGCAGCTTCACGCTGGCCGCGCTCTCCCTGGACAGGTATCTGGCCATCC GCTACCCGCTGCACTCCCGCAGCTGCGCACGCCTCGAAACGCGCTGGCAGCCATCGGGC TCATCTGGNGGCTGTCGCTGCTTCTCCGGGCCCTACCTGAGCTACTACCGCCAGTGC AGCTGGCAACCTGACCGTGTGCCATCCCGCTGGAGCGCCCTCGCCGCGCGCCATGG ACATCTGCACCTTCGCTTCAGTACCTGCTTTCTGTGCTGGTTCTCGGCTGACCTACG CGCGCACCTTGCCTACCTTGGCGCGCGTGCACCCGGTGGCCGCGGGTGGGTTGCC CCGCGCGCAAGCGCAAGGTGACACGCATGATCCTCATCGGGGCCGCGCTTCTGCCTC TGCTGGATGCCCCACAAGCGCTCATCTTGGGTGTGTTTCGGCCATTCCGGTTAAGCC CGCAATT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_003857 unedited ATCGGAATGGCAACTTCCAGNCCAGNAAAGCACTGGNGGNAGGGGTACAGGGNATGCC ACCCGGGATCTGTTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGACAAGCTT GATATCGGTACCAGATCTGAATTCGCCCTTCTCCAACCTGTGACATCCAGCGCGCCCG CTAAGTGCTTTCAGGCCACATCAACCGTCAGGATGCTGTGCGCTGCCTTTGGGCCCTGCC AGGACGGGCCAGGACAGGCTCGAGGATGATGGCTGGGAAGCGCCGGGCGAGGACGAA GGGCCCCCGCGCCTCGCTCATGTGCAACAGGTCGCTGGACTCGCGCTCCAACACGCTGC CACTGTGGGTGCCCCGCGCGGCAGCGCACACACGGCCGAGGCTCGGCTGGGGCACGGC CCAGCAGGCCCGCGCAGATCGTGCAGGAGCTTGGCGAAGTGTGTTGGAGACCAGCGCGT AAACGATGGGGTTGACGCAAGGTTGGCGTANGAGACCAGGTGCGAGAGGATGCGAAGCG CATAAGTGGCGCGCTGAGCGGGAACGGCCGAACACACGAGAGGATGAGCGCGTGGT GNGGCATCCAGCAGAGGCAAGAGCGCGGCCACGATGAGGATCATGCGTGTACCTTGC GCTTGGCGCGCCCGGCCACCCGAGCCCGCGGCCACCCGGTTCGACGGCGCGNCAGAAGTA GCGCAAGGTGCGCGCGGTAGTCANGCCGAGAACCAGCACAGGAAGCAGGTAGCTGAAGAC GAAAGTGCAAATGTCCATGGCCCGCGGCCAGGGCGCTCCACGCGGGGAAGGCCAN</p>
Restriction Sites:	Please inquire
ACCN:	NM_003857
Insert Size:	1200 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_003857.2](#), [NP_003848.1](#)

RefSeq Size: 1309 bp

RefSeq ORF: 1164 bp

Locus ID: 8811

UniProt ID: [O43603](#)

Cytogenetics: 17q25.1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Galanin is an important neuromodulator present in the brain, gastrointestinal system, and hypothalamopituitary axis. It is a 30-amino acid non-C-terminally amidated peptide that potently stimulates growth hormone secretion, inhibits cardiac vagal slowing of heart rate, abolishes sinus arrhythmia, and inhibits postprandial gastrointestinal motility. The actions of galanin are mediated through interaction with specific membrane receptors that are members of the 7-transmembrane family of G protein-coupled receptors. GALR2 interacts with the N-terminal residues of the galanin peptide. The primary signaling mechanism for GALR2 is through the phospholipase C/protein kinase C pathway (via Gq), in contrast to GALR1, which communicates its intracellular signal by inhibition of adenylyl cyclase through Gi. However, it has been demonstrated that GALR2 couples efficiently to both the Gq and Gi proteins to simultaneously activate 2 independent signal transduction pathways. [provided by RefSeq, Jul 2008]