

Product datasheet for **RG213471**

GALR1 (NM_001480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALR1 (NM_001480) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALR1
Synonyms:	GALNR; GALNR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213471 representing NM_001480 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGGCGGTGGGAACCTCAGCGAGGGCAACGCGAGCTGGCCGGAGCCCCCGCCCCGGAGCCCC
GGCCGCTGTTCCGCATCGGCGTGGAGAAGTTCGTACGCTGGTGGTGTTCGGCCTGATCTTCGGCTGGG
CGTGCTGGGCAACAGCCTAGTGATCACCGTGTGGCGCGCAGCAAGCCGGCAAGCCGGGAGCACCACC
AACCTGTTCACTCACTGAGCATCGCCGACCTGGCCTACCTGCTCTTCTGCATCCCCCTCCAGGCCA
CCGTGTACGCGCTGCCACCTGGGTGCTGGGCGCCTTCATCTGCAAGTTCATCCACTACTCTTCACCGT
GTCCATGCTGGTGGTACATCTCACCTGGCCGCGATGTCCGTGGACCGCTACGTGGCCATCGTGCCTCG
CGGCGCTCCTCCTCCCTCAGGGTGTCCCGCAACGCGCTGCTGGGCGTGGGCTGCATCTGGGCGCTGTCCA
TTGCCATGGCCTCGCCCGTGGCCTACCACAGGGCCTCTCCACCCGCGCGCCAGCAACCAGACCTTCTG
CTGGGAGCAGTGGCCGACCCCTCGCCACAAGAAGGCTACGTGGTGTGCACCTTCGTCTTCGGCTACCTG
CTGCCGCTCCTGCTCATCTGCTTCTGCTATGCCAAGTCTTAATCACTTGCATAAAAAGTTGAAGAACA
TGTCAAAGAAGTCTGAAGCATCCAAGAAAAGACTGCACAGACAGTTCGGTGGTGGTGTGGTGTGGTGG
AATCTCCTGGCTGCCGACCATCATCCATCTCTGGGCTGAGTTGGAGTTTCCCGCTGACGCCGGCT
TCCTTCTCTTCAAGATCACCGCCACTGCCTGGCGTACAGCAATTCCTCCGTAATCCTATCATTATG
CATTTCTCTGAAAATTCAGGAAGGCTATAAACAAGTGTTCAGTGTACATTTCGAAAGATTACACA
CCTGAGTGATACTAAAGAAAATAAAGTGAATAGACACCCACCATCAACCAATTGTACTCATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213471 representing NM_001480
Red=Cloning site Green=Tags(s)

MELAVGNLSEGNASWPEPPAPEPGPLFGIGVENFVTLVVFGLIFALGVLGNSLVITVLARSKPGKPRSTT
 NLFILNLSIADLAYLLFCIPFQATVYALPTWVLGAFICKFIHYFFTVSMLVSIIFTLAAMSVDRYVAIVHS
 RRSSSLRVSRNALLGVGCIWALSAMASPVAYHQGLFHPRASNQTFCWEQWPDPRHKKAYVVCTFVFGYL
 LPLLLICFCYAKVLNHLHKKLNMSKKSEASKKTAQTVLVVVVVFGISWLPHHIIHLWAEFGVFLTPA
 SFLFRITAHCLAYSNSSVNPPIIYAFLSEFRKAYKQVFKCHIRKDSHLSDTKENKSRIDTPPSTNCTHV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001480

ORF Size: 1047 bp

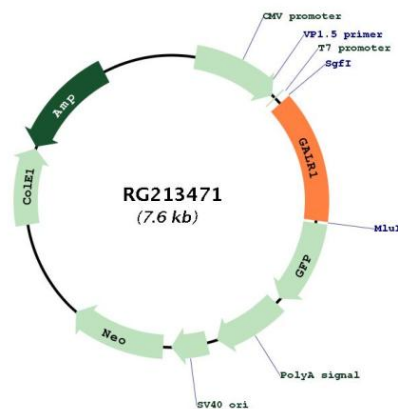
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_001480.2 , NP_001471.1
RefSeq Size:	3056 bp
RefSeq ORF:	1050 bp
Locus ID:	2587
UniProt ID:	P47211
Cytogenetics:	18q23
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	The neuropeptide galanin elicits a range of biological effects by interaction with specific G-protein-coupled receptors. Galanin receptors are seven-transmembrane proteins shown to activate a variety of intracellular second-messenger pathways. GALR1 inhibits adenylyl cyclase via a G protein of the Gi/Go family. GALR1 is widely expressed in the brain and spinal cord, as well as in peripheral sites such as the small intestine and heart. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213471