

## Product datasheet for **MG217332**

### Galr2 (NM\_010254) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galr2 (NM_010254) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galr2
Synonyms:	mGalR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217332 representing NM_010254 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGGCTCGGACAGCCAGGGGGCGGAGGACTCGAGCCAGGAAGGTGGCGGGCTGGCAGCCCGAGG  
CGGTCTCGTACCCCTATTTTTCGCGCTCATCTTCTCGTGGGCGCTGTGGCAACGCGCTGGTGTGGC  
GGTGTGTGCGCGGGCCAGGCGGTGAGCACCAGAACCTATTCATCCTCAACCTGGGTGTGGCCGAC  
CTGTGTTTCATCCTGTGCTGCGTGCCTTCCAGGCCACCATCTATACCCTGGACGATTGGGTGTTGGCT  
CACTGCTCTGCAAGGCCGTTTCATTTCTCATCTTCTCACTATGCAGCCAGCAGCTTCAGCTGGCCGC  
TGTCTCCCTGGACAGGTATCTGGCCATCCGCTACCCGCTGCACTCCCAGAGTTGCGCACACCTCGAAAC  
GCGCTGGCGGCCATCGGGCTCATCTGGGGCTAGCACTGCTCTTCTCCGGGCCCTACCTGAGCTACTACA  
GTCAGTCGCAGCTGGCCAATCTGACGGTGTGCCACCCAGCGTGGAGCGCACACGACGTCGCGCCATGGA  
CCTCTGCACTTTTGTCTTTAGCTACCTGTTGCCAGTGCTGGTGTGCTCAGCCTGACCTATGCGCGCACCCCTG  
CACTACCTCTGGCGCACAGTTGACCCAGTAGCTGCAGGCTCAGGTTCCAGCGCGCAAGCGCAAGGTGA  
CACGGATGATCGTCATCGTGGCGGTACTTCTGCCTCTGTTGGATGCCCCACCACGCGCTTATCCTCTG  
CGTGTGGTTTGGTCGCTTCCGCTCACGCGTGCACCTACGCCCTGCGCATCCTTTCACATCTAGTATCT  
TATGCCAATCGTGTGTCACCCCATCGTTTATGCTCTGGTCTCCAAGCATTTCGCCAAAGGTTTCCGCA  
AAATCTGCGCGGGCTGCTACGCCGTGCCCGAGGAGAGCTTCAGGCCGAGTGTGCATCCTGGCGCCTGG  
AAACCATAGTGGTGGCATGCTGGAACCTGAGTCCACAGACCTGACACAGGTGAGCGAGGCAGCCGGGCC  
CTCGTCCCGCACCCGCACTTCCCAACTGCACAACCTTGAGTAGAACCTCGATCCAGCCTGT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217332 representing NM\_010254  
 Red=Cloning site Green=Tags(s)

MNGSDSQGAEDSSQEGGGWQPEAVLVPLFFALIFLVGAVGNALVLAVLLRGGQAVSTTNLFILNLGVAD  
 LCFILCCVPFQATIYTLDDWVFGSLLCKAVHFLIFLTMHASSFTLAAVSLDRYLAI RYPLHSRELRTPRN  
 ALAAIGLIWGLALLFSGPYLSYYSQSQLANLTVCHPAWSAPRRRAMDLCTFVFSYLLPVLVLSLTYARTL  
 HYLWRTVDPVAAGSGSQRAKRKVT RMIIVAVLFCLCWMPPHALILCVWFGRFPLTRATYALRILSHLVS  
 YANSCVNP IYVALYSKHFRKGRKICAGLLRRAPRRASGRVCILAPGNHSGGMLEPESTDLTQVSEAAGP  
 LVPAPALPNCTTLSRTLDPAC

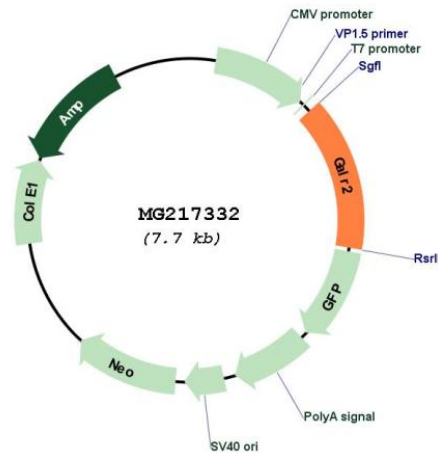
SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_010254

<b>ORF Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_010254.4</a> , <a href="#">NP_034384.3</a>
<b>RefSeq Size:</b>	1957 bp
<b>RefSeq ORF:</b>	1116 bp
<b>Locus ID:</b>	14428
<b>UniProt ID:</b>	<a href="#">O88854</a>
<b>Cytogenetics:</b>	11 81.1 cM
<b>Gene Summary:</b>	Receptor for the hormone galanin, GALP and spexin-1. The activity of this receptor is mediated by G proteins that activate the phospholipase C/protein kinase C pathway (via G(q)) and that inhibit adenylyl cyclase (via G(i)).[UniProtKB/Swiss-Prot Function]