

## Product datasheet for **SC307577**

### GPCR 2037 (GPR151) (NM\_194251) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPCR 2037 (GPR151) (NM_194251) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPCR 2037
Synonyms:	GALR4; GALRL; GPCR; GPCR-2037; PGR7
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_194251 edited  
 ATGCTGGCAGCTGCCTTTGCAGACTCTAACTCCAGCAGCATGAATGTGTCCTTTGCTCAC  
 CTCCACTTTGCCGAGGGTACCTGCCCTCTGATTCCCAGGACTGGAGAACCATCATCCCC  
 GCTCTCTTGGTGGCTGTCTGCCTGGTGGCTTCGTGGAAACCTGTGTGATTGGCATC  
 CTCTTACAATGCTTGGAAAGGAAAGCCATCCATGATCCACTCCCTGATTCTGAATCTC  
 AGCCTGGCTGATCTCCCTCCTGCTGTTTTCTGCACCTATCCGAGCTACGGCCTACTCC  
 AAAAGTGTGGGATCTAGGCTGGTTTGTCTGCAAGTCTCTGACTGGTTTATCCACACA  
 TGCATGGCAGCCAAGAGCCTGACAATCGTTGTGGTGGCCAAAGTATGCTTCATGTATGCA  
 AGTGACCCAGCCAAGCAAGTGAGTATCCACAACCTACCCATCTGGTCAGTGTGGTGGCC  
 ATCTGGACTGTGGCTAGCCTGTTACCCCTGCCGGAATGGTTCTTTAGCACCATCAGGCAT  
 CATGAAGGTGTGAAATGTGCCTCGTGGATGTACCAGCTGTGGCTGAAGAGTTTATGTCCG  
 ATGTTTGGTAAGCTCTACCCACTCCTGGCATTGGCCTTCCATTATTTTTGCCAGCTTT  
 TATTTCTGGAGAGCTTATGACCAATGTAAAAACGAGGAACCTAAGACTCAAATCTTAGA  
 AACAGATACGCTCAAAGCAAGTCACAGTGATGCTGCTGAGCATTGCCATCATCTCTGCT  
 CTCTTGTGGCTCCCCGAATGGGTAGCTTGGCTGTGGGTATGGCATCTGAAGGCTGCAGGC  
 CCGGCCCCACCACAAGTTTTATAGCCCTGTCTCAAGTCTTATGATTTTTCCATCTCTTCA  
 GCAAATCCTCTCATTTTTCTTGTGATGTCGGAAGATTTCAGGGAAGGCTTGAAGGTGTA  
 TGGAAATGGATGATAACCAAAAAACCTCCAAGTGTCTCAGAGTCTCAGGAAACACCAGCT  
 GGCAACTCAGAGGTCTTCTGACAAGTTCCATCTCCAGAATCCCCAGCATCCATACCA  
 GAAAAAGAGAAACCCAGCTCTCCCTCCTGCAAGGGGAAAACTGAGAAGGCAGAGATT  
 CCCATCCTTCTGACGTAGAGCAGTTTTGGCATGAGAGGGACACAGTCCCTTCTGTACAG  
 GACAATGACCCTATCCCCTGGGAACATGAAGATCAAGAGACAGGGGAAGGTGTTAAATAG

Restriction Sites:	Please inquire
ACCN:	NM_194251
Insert Size:	1300 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_194251.2](#), [NP\\_919227.2](#)

**RefSeq Size:** 1260 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 134391

**UniProt ID:** [Q8TDV0](#)

**Cytogenetics:** 5q32

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:**

This gene encodes an orphan member of the class A rhodopsin-like family of G-protein-coupled receptors (GPCRs). Within the rhodopsin-like family, this gene is a member of the SOG subfamily that includes somatostatin, opioid, galanin, and kisspeptin receptors. The orthologous mouse gene has a restricted pattern of neuronal expression which is induced following nerve injury. All GPCRs have a transmembrane domain that includes seven transmembrane alpha-helices. A general feature of GPCR signaling is the agonist-induced conformational change in the receptor, leading to activation of the heterotrimeric G protein. The activated G protein then binds to and activates numerous downstream effector proteins, which generate second messengers that mediate a broad range of cellular and physiological processes. [provided by RefSeq, Jul 2017]