

## Product datasheet for **RG209672**

### **GPR61 (NM\_031936) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPR61 (NM_031936) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR61
Synonyms:	BALGR; GPCR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209672 representing NM\_031936  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTCTCACCCATCCCCAGTCATCAGGGAAGTCTTCCACTTTGGGAGGGTCCCTCAAACCCAG  
 GTCCCTCTACTGCCAGTGGGGTCCCGAGGTGGGGCTACGGGATGTTGCTTCGGAATCTGTGGCCCTCTT  
 CTTTCATGCTCCTGCTGGACTTGACTGCTGTGGCTGGCAATGCCGCTGTGATGGCCGTGATCGCCAAGACG  
 CCTGCCCTCCGAAAATTTGCTTCGCTTCCACCTCTGCCTGGTGGACCTGCTGGCTGCCCTGACCTCA  
 TGCCCTGGCCATGCTCTCCAGCTCTGCCCTCTTTGACCAGCCCTCTTTGGGAGGTGGCTGCCGCT  
 CTACTTGTCTGAGCGTGTGCTTTGTCAGCCTGGCCATCCTCTCGGTGTGAGCCATCAATGTGGAGCGC  
 TACTATTACGTAGTCCACCCATGCGCTACGAGGTGCGCATGACGCTGGGGCTGGTGGCCTCTGTGCTGG  
 TGGGTGTGTGGTGAAGGCTTGGCCATGGCTTCTGTGCCAGTGTGGGAAGGTCTCCTGGGAGGAAGG  
 AGCTCCCAGTGTCCCCAGGCTGTTCACTCCAGTGGAGCCACAGTGCCTACTGCCAGCTTTTTGTGGT  
 GTCTTTGCTGTCTTTACTTTCTGTTGCCCTGCTCCTCATACTTGTGGTCTACTGCAGCATGTTCCGAG  
 TGGCCCGCTGGCTGCCATGCAGCACGGGCCGCTGCCACGTGGATGGAGACACCCCGGCAACGCTCCGA  
 ATCTCTCAGCAGCCGCTCCACGATGGTCAACAGCTCGGGGGCCCCCAGACCACCCACACCGGACGTTT  
 GGGGGAGGAAAAGCAGCAGTGGTTCCTCGGCTGTGGGGGACAGTTCCTGCTCTGTTGGTTGCCCTACT  
 TCTCTTTCCACCTCTATGTTGCCTGAGTGTCTAGCCATTCAACTGGGAGGTGGAGAGTGTGGTCA  
 CTGGATTGGCTACTTTTGCTTCACTTCCAACCTTTCTTCTATGGATGTCTCAACCGGCAGATCCGGGG  
 GAGCTCAGCAAGCAGTTGTCTGCTTCTCAAGCCAGCTCCAGAGAAGGAGCTGAGGCTGCCTAGCCGGG  
 AGGGCTCCATTGAGGAGAACTTCTGCAGTTCCTCAGGGGACTGGCTGTCTTCTGAGTCTGGTTC  
 CCGACCCCTACCCAGCCCAAGCAGGAGCCACCTGCTGTTGACTTTCGAATCCCAGGCCAGATAGCTGAG  
 GAGACCTCTGAGTTCCTGGAGCAGCAACTCACCAGCGACATCATCATGTGAGACGCTACCTCCGTCCTG  
 CCGCCTCACCCCGGCTGGAGTCA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209672 representing NM\_031936  
 Red=Cloning site Green=Tags(s)

MESSPIPQSSGNSSTLGRVPQTPGPSTASGVPEVGLRDVASESVALFFMLLLDLTAVAGNAAMVAIAKT  
 PALRKFFVVFHLCVLDLAAALTLMLAMLSSSALFDHALFGEVACRLYLFLSVCFVSLAILSVSAINVER  
 YYYVYVHPMRYEVRMTLGLVASVLVGVVVKALAMASVPLGRVSWEEGAPSVPPGCSLQWSHSAYCQLFVV  
 VFAVLYFLLPLLLILVYVCSMFRVARVAAMQHGPLPTWMETPRQRSELSRSTMTVSSGAPQTTPHRTF  
 GGGKAAVVLLAVGGQFLLCWLPYFSFHLVVALSAQPISTGQVESVVTWIGYFCFTSNPFFYGLNRRQIRG  
 ELSKQFVCFKPAPEKELRLPSREGSIEENFLQFLQGTGCPSESWSRPLPSPKQEPFAVDFRIPGQIAE  
 ETSEFLEQLTSDIIMSDSYLRPAASPRLES

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_031936

ORF Size: 1353 bp

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 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:
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\\_031936.3](#), [NP\\_114142.3](#)

RefSeq Size: 2462 bp

RefSeq ORF: 1356 bp

Locus ID: 83873

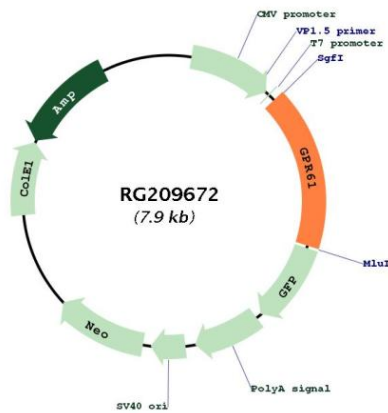
UniProt ID: [Q9BZJ8](#)

Cytogenetics: 1p13.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene belongs to the G-protein coupled receptor 1 family. G protein-coupled receptors contain 7 transmembrane domains and transduce extracellular signals through heterotrimeric G proteins. The protein encoded by this gene is most closely related to biogenic amine receptors. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG209672