

Product datasheet for **RG207573**

GPR3 (NM_005281) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR3 (NM_005281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR3
Synonyms:	ACCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207573 representing NM_005281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTGGGGTGCAGGCAGCCCTCTGGCCTGGCTCTCAGCTGGCTCAGGCAACGTGAATGTAAGCAGCG
TGGGCCAGCAGAGGGGCCACAGGTCCAGCCGACCACTGCCCTCGCTAAGGCCTGGGATGTGGTGT
CTGCATCTCAGGCACCCTGGTGTCTCCTGCGAGAATGCGCTAGTGGTGGCCATCATCGTGGCACTCCTGCC
TTCCGTGCCCCATGTTCTCTGCTGGTGGCAGCCTGGCCGTGGCAGACCTGCTGGCAGGCCTGGCCTGG
TCCTGCACCTTTGCTGCTGCTTTCTGCATCGGCTCAGCGGAGATGAGCCTGGTGTGGTTGGCGTGTGGC
AATGGCCTTTACCGCCAGCATCGGCAGTCTACTGGCCATCACTGTGACCGCTACCTTTCTCTGTACAAT
GCCCTCACCTACTATTACAGAGACAACAGTGACACGGACCTATGTGATGCTGGCCTTAGTGTGGGGAGGTG
CCCTGGGCTGGGGCTGCTGCTGTGCTGGCCTGGAACCTGGATGGCCTGACCACATGTGGCGTGGT
TTATCCAATCTCCAAGAACCATCTGGTAGTTCTGGCCATTGCCTTCTTATGGTGTGGTGGCATTGCTG
CAGCTCTACGCCAAATCTGCCGCATCGTCTGCCGCCATGCCAGCAGATTGCCCTTACAGCGCACCTGC
TGCTGCTCCACTATGTGGCCACCGCAAGGGCATTGCCCACTGGCCGTGGTGTGGAGCCTTTGC
CGCCTGCTGGTTGCCCTCACTGTCTACTGCTGCTGGGTGATGCCCACTCTCCACCTCTACACCTAT
CTTACCTTGCTCCCTGCCACCTACAACCTCATGATCAACCCTATCATCTACGCCCTCCGCAACCAGGATG
TGCAGAAAGTGTGGGCTGTCTGCTGCTGCTGTTCTCTTCCAAGATCCCCTCCGATCCCGCTCCCC
CAGTGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207573 representing NM_005281
 Red=Cloning site Green=Tags(s)

MMWGAGSPLAWLSAGSGNVNVSSVGPAGPTGPAAPLPSPKAWDVVLCISGTLVSCENALVVAIIVGTPA
 FRAPMFLLVGSLAVADLLAGLGLVLHFAAVFCIGSAEMSLVVLVGLVMAFTASIGSLLAITVDRYLSLYN
 ALTYSETTVTRTYVMLALVWGGALGLLLPVLAWNCLDGLTTCGVVYPLSKNHLVVLAIAFFMVFIML
 QLYAQICRIVCRHAQQIALQRHLLPASHYVATRKGIATLAVVLGAFACWLPFTVYCLLGDHSPPLYTY
 LTLLPATYNSMINPIIYAFRNQDVQKVLWAVCCCCSSSKIPFRSRSPSDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005281

ORF Size: 990 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:

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_005281.4](#)

RefSeq Size: 2145 bp

RefSeq ORF: 993 bp

Locus ID: 2827

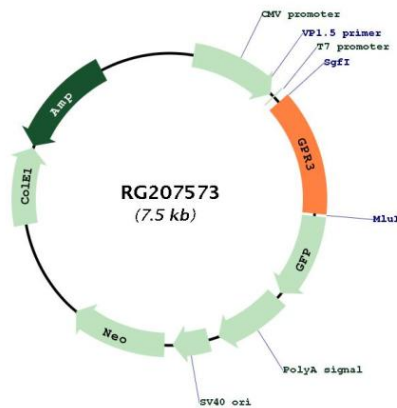
UniProt ID: [P46089](#)

Cytogenetics: 1p36.11

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene is a member of the G protein-coupled receptor family and is found in the cell membrane. G protein-coupled receptors, characterized by a seven transmembrane domain motif, are involved in translating outside signals into G protein mediated intracellular effects. The encoded protein activates adenylate cyclase and modulates amyloid-beta production in a mouse model, suggesting that it may play a role in Alzheimer's disease. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RG207573