

Product datasheet for **RG209686**

GPR4 (NM_005282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR4 (NM_005282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR4
Synonyms:	GPR6C.I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209686 representing NM_005282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAACCACAGTGGGAGGGCTGCCACGTGGACTCGCGCGTGGACCACCTCTTTCGGCCATCCCTCT
ACATCTTTGTATCGGCGTGGGGCTGCCACCAACTGCCTGGCTCTGTGGGCGGCCTACCGCCAGGTGCA
ACAGCGCAACGAGCTGGGCGTCTACCTGATGAACCTCAGCATCGCCGACCTGCTGTACATCTGCACGCTG
CCGCTGTGGGTGGACTACTTCTGCACCACGACAAGTGGATCCACGGCCCGGGTCTGCAAGCTCTTTG
GGTTCATCTTCTACACCAATATCTACATCAGCATCGCCTTCTGTGCTGCATCTCGGTGGACCGCTACCT
GGCTGTGGCCACCCACTCCGCTTCGCCCGCCTGCGTGCCTCAAGACCGCCGTGGCCGTGAGCTCCGTT
GTCTGGGCCACGGAGCTGGGCGCAACTCGGCGCCCTGTTCCATGACGAGCTCTTCGAGACCGCTACA
ACCACACCTTCTGCTTTGAGAAGTTCCCATGGAAGGCTGGTGGCCTGGATGAACCTCTATCGGGTGT
CGTGGGCTTCTCTTCCCGTGGGCGCTCATGCTGCTGCTGCTACCGGGGCATCCTGCGGGCCGTGCGGGG
AGCGTGTCCACGAGCGCCAGGAGAAGGCAAGATCAAGCGGCTGGCCCTCAGCCTCATCGCCATCGTGC
TGGTCTGCTTTGCGCCATCACGTGCTTGTGTGCCGAGCGCCATCACTGGGCCGCCCTGGGA
CTGCGGCTTCGAGGAGCGCTCTTTCTGCATACCACAGCTCACTGGCTTTCACCAGCCTCAACTGTGTG
GCGGACCCATCCTCTACTGCCTGGTCAACGAGGGCGCCCGCAGCGATGTGGCCAAGGCCCTGCACAAC
TGCTCCGCTTCTGGCCAGCGACAAGCCCCAGGAGATGGCCAATGCCTCGCTCACCTGGAGACCCCACT
CACCTCCAAGAGGAACAGCACAGCCAAAGCCATGACTGGCAGCTGGGCGGCCACTCCGCCCTCCAGGGG
GACCAGGTGCAGCTGAAGATGCTGCCGCCAGCACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209686 representing NM_005282
 Red=Cloning site Green=Tags(s)

MGNHTWEGCHVDSRVDHLFPPSLYIFVIGVGLPTNCLALWAA YRQVQQRNELGVYLMNLSIADLLYICTL
 PLWVDYFLHHDNWIHGPGSKLFGFIFYTNIYISIAFLCCISVDRYLAVAHLRFRARLRCVKTA VAVSSV
 VWATELGANSAPLFHDELFRDRYNHTFCFEKFPMEGWVWMMNL YRVFVGLFPWALMLLSYRGILRAVRG
 SVSTERQEKAKIKRLALSLIAIVLVCFAPYHVLLLLSRSAIYLGRP WDCGFEEERVF SAYHSSLAFTSLNCV
 ADPILYCLVNEGARSVDKALHNLLRFLASDKPQEMANASLTLE TPLTSKRNSTAKAMTGSWAATPPSQG
 DQVQLKMLPPAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005282

ORF Size: 1086 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_005282.1](#), [NP_005273.1](#)

RefSeq Size: 2696 bp

RefSeq ORF: 1089 bp

Locus ID: 2828

UniProt ID: [P46093](#)

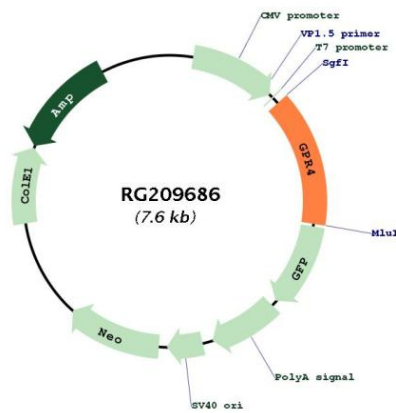
Cytogenetics: 19q13.32

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Proton-sensing receptor coupled to several G-proteins, including G(s), G(13) and G(q)/G(11) proteins, leading to cAMP production.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209686