

Product datasheet for **RG209685**

GPR21 (NM_005294) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR21 (NM_005294) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209685 representing NM_005294 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCACCTTGGATGGTAATCAGAGCAGCCACCCTTTTGCCTCTTGGCATTGGCTATTTGGAAA
CTGTCAATTTTGCCTTTTGAAGTATTGATTATTGTCTTTCTAACTGTATTGATTATTTCTGGCAACAT
CATTGTGATTTTGTATTTCACTGTGCACCTTTGTTGAACCATCACACTACAAGTATTTTATCCAGAT
ATGGCATATGCTGACCTTTTGTGGGGTGAGCTGCGTGGTCCCTTTTATCACTCCTCCATCACCCCC
TTCCAGTAGAGGAGTCCTTGACTTGCCAGATATTTGGTTTTGTAGTATCAGTTCTGAAGAGCGTCTCCAT
GGCTTCTCTGGCCTGTATCAGCATTGATAGATACATTGCCATTACTAAACCTTTAACCTATAATACTCTG
GTTACACCCTGGAGACTACGCCTGTGTATTTTCTGATTGGCTATACTCGACCCTGGTCTTCTGCCTT
CCTTTTCCACTGGGCAAACCTGGATATCATGGAGATGTGTTTCAGTGGTGTGCGGAGTCTGGCACAC
CGACTCCTACTTCACCCTGTTTCATCGTGATGATGTTATATGCCCCAGCAGCCCTATTGTCTGCTTACC
TATTTCAACATCTTCCGCATCTGCCAACAGCACACAAAGGATATCAGCGAAAGGCAAGCCCGCTTCAGCA
GCCAGAGTGGGGAGACTGGGAAGTGCAGGCCTGTCTGATAAGCGCTATGCCATGGTCTGTTTCGAAT
CACTAGTGTATTTACATCCTCTGGTTGCCATATATCATCTACTTCTGTTGGAAAGCTCCACTGGCCAC
AGCAACCGCTTCGCATCCTTCTTGACCCTGGCTTGCTATTAGTAACAGTTTCTGCAACTGTGTAATTT
ATAGTCTCTCCAACAGTGTATTCCAAGAGGACTAAAGCGCCTCTCAGGGGCTATGTGTACTTCTGTGC
AAGTCAGACTACAGCCAACGACCCTTACACAGTTAGAAGCAAAGGCCCTTAAATGGATGTCATATCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209685 representing NM_005294
Red=Cloning site Green=Tags(s)

MNSTLDGNQSSHPFCLLAFGYLETVNFCLLEVLIIIVFLTVLIIISGNIIVIFVVFHCAPLLNHHTTSYFIQT
MAYADLFVGVSCVPSLSLLHHPLPVEESLTCQIFGFVSVLKSVMASLACISIDRYIAITKPLTYNTL
VTPWRLRLCIFLIWLYSTLVFLPSFFHWGKPGYHGDVFWCAESWHTDSYFTLFIWMMLYAPAALIVCFT
YFNIFRICOQHTKDISERQARFSSQSGETGEVQACPKRYAMVLFRITSVFYILWLPYIIYFLLESSTGH
SNRFASFLTTLWLAISNSFCNCVIYSLNSVYFQRGLKRLSGAMCTSCASQTTANDPYTVRSKGPLNGCHI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005294

ORF Size: 1049 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_005294.1](#), [NP_005285.1](#)

RefSeq Size: 1050 bp

RefSeq ORF: 1050 bp

Locus ID: 2844

UniProt ID: [Q99679](#)

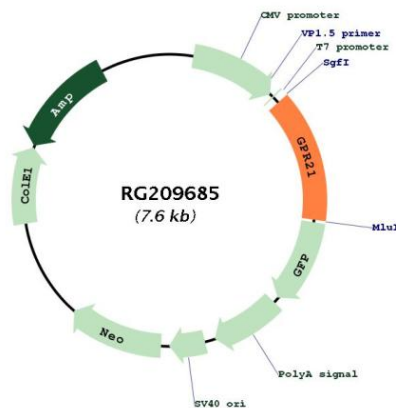
Cytogenetics: 9q33.2

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene encodes a member of the G-protein-coupled receptor 1 family. G-protein coupled receptors are membrane proteins which activate signaling cascades as a response to extracellular stress. The encoded protein activates a Gq signal transduction pathway which mobilizes calcium. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG209685