

Product datasheet for **RG209833**

GPR1 (NM_005279) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR1 (NM_005279) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209833 representing NM_005279 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGATTTGGAGGAAACATTATTTGAAGAATTTGAGAACTATTCCTATGACCTAGACTATTACTCTC
TGGAGTCTGATTTGGAGGAGAAAGTCCAGCTGGGAGTTGTTCACTGGGTCTCCCTGGTGTATATTGTTT
GGCTTTTGTCTGGGAATTCAGGAAATGCCATCGTCATTTGGTTCACGGGGTTCAAGTGGAGAAGACA
GTCACCACCTCTGTGGTTCCTCAATCTAGCCATTGCGGATTTCAATTTTCTCTCTTTCTGCCCTGTACA
TCTCCTATGTGGCCATGAATTTCCACTGGCCCTTTGGCATCTGGCTGTGCAAAGCCAATTCCTTCACTGC
CCAGTTGAACATGTTTGCCAGTGTTTTTTCTGACAGTGATCAGCCTGGACCACTATATCCACTTGATC
CATCCTGTCTTATCTCATCGGCATCGAACCTCAAGAATCTCTGATTGTCATTATATTCATCTGGCTTT
TGGCTTCTCTAATTGGCGGTCTGCCCTGACTTCCGGGATACTGTGGAGTTCAATAATCATACTCTTTG
CTATAACAATTTTCAGAAGCATGATCCTGACCTCACTTTGATCAGGCACCATGTTCTGACTTGGGTGAAA
TTTATCATTGGCTATCTTCCCTTTGCTAACAATGAGTATTTGCTACTTGTGTCTCATCTTCAAGGTGA
AGAAGCGAAGCATCCTGATCTCCAGTAGGCATTTCTGGACAATTCGGTTGTGGTGTGGCTTTGTGGT
TTGCTGGACTCCTTATCACCTGTTTAGCATTGGGAGCTCACCATTACCACAATAGCTATTCACCAT
GTGATGCAGGCTGGAATCCCCCTCTCCACTGGTTTGGCATTCTCAATAGTTGCTTGAACCCCATCCTTT
ATGTCCTAGTTAGTAAGAAGTTCCAAGCTCGCTTCCGGTCTCAGTTGCTGAGATACTCAAGTACACACT
GTGGGAAGTCAGCTGTTCTGGCACAGTGAGTGAACAGCTCAGGAACTCAGAAACCAAGAATCTGTGTCTC
CTGGAAACAGCTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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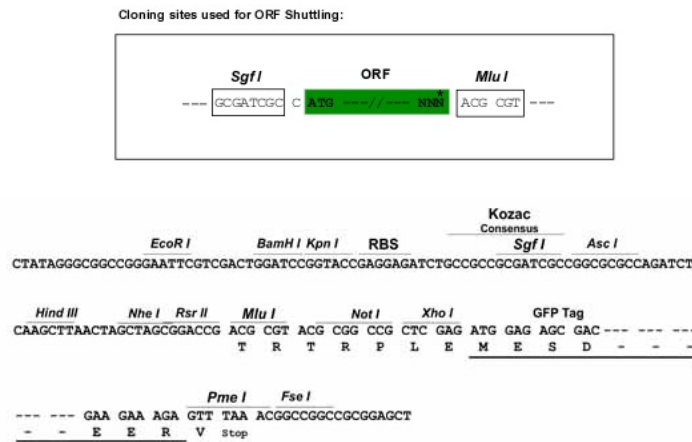
Protein Sequence: >RG209833 representing NM_005279
Red=Cloning site Green=Tags(s)

MEDLEETLFEFENYSYDLDYYSLESLEEKVQLGVVHWVSLVLYCLAFVLGIPGNAIIVWFTGFKWKKT
 VTTLWFLNLAIADFIFLLFLPLYISYVAMNFHWPFGIWLCKANSFTAQLNMFASVFFLTVISLDHYIHLI
 HPVLSHRHRTLKNSLIVIFIFIWLLASLIGGPALYFRDTVEFNNHTLCYNNFQKHPDLTLIRHHVLTWVK
 FIIGYLFPLLMSICYLCLIFKVKKRSILISSRHFWTILVVVAVVVCWTPYHLFSIWELTIHNSYSHH
 VMQAGIPLSTGLAFLNSCLNPILYVLVSKKFQARFRSSVAEILKYTLWEVSCSGTVSEQLRNSETKNLCL
 LETAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005279

ORF Size: 1065 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_005279.2](#), [NP_005270.2](#)

RefSeq Size: 2089 bp

RefSeq ORF: 1068 bp

Locus ID: 2825

UniProt ID: [P46091](#)

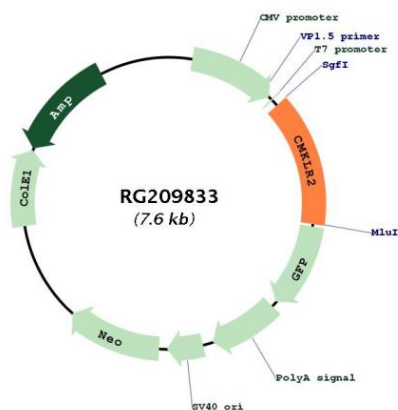
Cytogenetics: 2q33.3

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Receptor for the inflammation-associated leukocyte chemoattractant chemerin/RARRES2 suggesting a role for this receptor in the regulation of inflammation (PubMed:18165312). Receptor for TAFA1, mediates its effects on neuronal stem-cell proliferation and differentiation via the activation of ROCK/ERK and ROCK/STAT3 signaling pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209833