

## Product datasheet for **RC209833**

### GPR1 (NM\_005279) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR1 (NM_005279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209833 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAAGATTTGGAGGAAACATTATTTGAAGAATTTGAGAACTATTCCTATGACCTAGACTATTACTCTC  
TGGAGTCTGATTTGGAGGAGAAAGTCCAGCTGGGAGTTGTTCACTGGGTCTCCCTGGTGTATATTGTTT  
GGCTTTTGTCTGGGAATTCAGGAAATGCCATCGTCATTTGGTTCACGGGGTTCAAGTGGAGAAGACA  
GTCACCACTCTGTGGTTCCTCAATCTAGCCATTGCGGATTTCAATTTTCTCTTTCTGCCCTGTACA  
TCTCTATGTGGCCATGAATTTCCACTGGCCCTTTGGCATCTGGCTGTGCAAAGCCAATTCCTTCACTGC  
CCAGTTGAACATGTTTGCCAGTGTTTTTTCTGACAGTGATCAGCCTGGACCACTATATCCACTTGATC  
CATCCTGTCTTATCTCATCGGCATCGAACCTCAAGAATCTCTGATTGTCATTATATTCATCTGGCTTT  
TGGCTTCTCTAATTGGCGGTCTGCCCTGACTTCCGGGATACTGTGGAGTTCAATAACTACTCTTTG  
CTATAACAATTTTCAGAAGCATGATCCTGACCTCACTTTGATCAGGCACCATGTTCTGACTTGGGTGAAA  
TTTATCATTGGCTATCTTCCCTTTGCTAACAATGAGTATTTGCTACTTGTGTCTCATCTTCAAGGTGA  
AGAAGCGAAGCATCCTGATCTCCAGTAGGCATTTCTGGACAATCTGGTTGTGGTGTGGCCTTTGTGGT  
TTGCTGGACTCCTTATCACCTGTTTAGCATTTGGGAGCTCACCATTACCACAATAGCTATCCCACCAT  
GTGATGCAGGCTGGAATCCCCCTCTCCACTGGTTTGGCATTCTCAATAGTTGCTTGAACCCCATCCTTT  
ATGTCCTAGTTAGTAAGAAGTTCCAAGCTCGCTTCCGGTCTCAGTTGCTGAGATACTCAAGTACACACT  
GTGGGAAGTCAGCTGTTCTGGCACAGTGAGTGAACAGCTCAGGAACTCAGAAACCAAGAATCTGTGTCTC  
CTGGAAACAGCTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC209833 protein sequence  
Red=Cloning site Green=Tags(s)

MEDLEETLFEFENYSYDLDYYSLESDLEEKVQLGVVHWVSLVL YCLAFVLGIPGNAIIVWFTGFKWKKT  
 VTTLWFLNLAIADFIFLLFLPLYISYVAMNFHWPFGIWLCKANSFTAQLNMFASVFFLTVISLDHYIHLI  
 HPVLSHRHRTLKNSLIVIFIWLLASLIGGPALYFRDTEFNNHTLCYNNFQKHDPLTLIRHHVLTWVK  
 FIIGYLFPLL TMSICYLCLIFKVKKRSILISSRHFWTILVVVAVVVCWTPYHLFSIWELTIHHNSYSHH  
 VMQAGIPLSTGLAFLNSCLNPILYVLVSKKFQARFRSSVAEILKYTLWEVSCSGTVSEQLRNSETKNLCL  
 LETAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6148\\_e03.zip](https://cdn.origene.com/chromatograms/mk6148_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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\\_005279.3](#)

**RefSeq Size:** 2330 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 2825

**UniProt ID:** [P46091](#)

**Cytogenetics:** 2q33.3

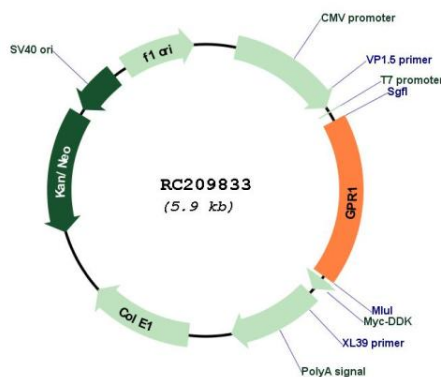
**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

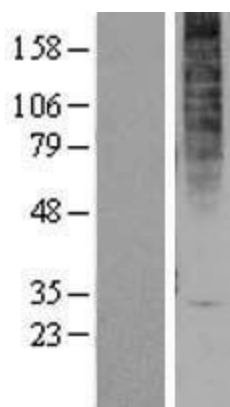
**MW:** 41.4 kDa

**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 RC209833



Western blot validation of overexpression lysate (Cat# [LY420548]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC212161] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).