

Product datasheet for **RG209674**

GPR83 (NM_016540) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR83 (NM_016540) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR83
Synonyms:	GIR; GPR72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209674 representing NM_016540 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCCCTCACCTCTTGCTGCTCTGTCTCCTCCCCTTGGTGCGAGCCACCGAGCCCCACGAGGGCCGGG
CCGACGAGCAGAGCGGGAGGCCCTGGCCGTGCCAATGCCTCGCACTTCTTCTCTTGAACAACACTA
CACCTTCTCCGACTGGCAGAACCTTGTGGGCAGGAGCGCTACGGCGTGAGTCCCAGAACCCACGGTG
AAAGCCCTGCTCATTGTGGCTTACTCCTCATCATTGTCTTCTCACTCTTGGCAACGCTCTGGTCTGTC
ATGTCATCTTCAAGAACCAGCAATGCACTCGGCCACCAGCCTTTCATCGTCAACCTGGCAGTTGCCGA
CATAATGATCACGCTGCTCAACACCCCTTCACTTTGGTTCGCTTGTGAACAGCACATGGATATTTGGG
AAGGGCATGTGCCATGTAGCCGCTTGGCCAGTACTGCTCACTGCACGTCTCAGCACTGACACTGACAG
CCATTGCGGTGGATCGCCACCAGGTATCATGCACCCCTTGAACCCCGGATCTCAATCACAAGGGTGT
CATCTACATCGTGTCTGGACCATGGCTACGTTCTTTTCACTCCCACATGCTATCTGCCAGAAATTA
TTTACCTTCAAATACAGTGAGGACATTGTGCGCTCCCTGCCTGCCAGACTTCCCTGAGCCAGCTGACC
TCTTCTGGAAGTACCTGGACTTGGCCACCTTTCATCCTGCTCTACATCCTGCCCTCCTCATCATCTCTGT
GGCCTACGCTCGTGTGGCAAGAACTGTGGCTGTGTAATGATTGGCGATGTACCACAGAGCAGTAC
TTTCCCTCGGGCGAAAAAGAAGAACCATCAAGATGTTGATGCTGGTGGTAGTCTTTGCCCTCT
GCTGGTTCCCTCAACTGCTACGCTCCTCCTGTCCAGCAAGTTCATCCGCACCAACAATGCCCTCTA
CTTTGCCCTTCACTGGTTTGGCATGAGCAGCACCTGCTATAACCCCTTCAATACTGCTGGCTGAACGAG
AACTTCAGGATTGAGCTAAAGGCATTACTGAGCATGTGTCAAAGACCTCCCAAGCCTCAGGAGGACAGGC
CACCTCCCAAGTTCTTCTCCTCAGGGTGGCCTGGACAGAGAAGAATGATGGCCAGAGGGCCCCCTTGC
CAATAACCTCCTGCCACCTCCCAACTCCAGTCTGGGAAGACAGACCTGTCATCTGTGGAACCCATTGTG
ACGATGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG209674 representing NM_016540
 Red=Cloning site Green=Tags(s)

MVPHLLLLCLLPLVRATEPHEGRADEQSAAEALAVPNASHFFSWNNYTFSDWQNFVGRRRYGAESQNPTV
 KALLIVAYSFIIIVSLFGNVLVCHVIFKNQRMHSATSLFIVNLAVADIMITLLNTPFTLVRFVNSTWIFG
 KGMCHVSRFAQYCSLHVSALTLTAIAVDRHQVIMHPLKPRISITKGVIIYIAVIWTMATFFSLPHAICQKL
 FTFKYSEDIVRSLCLPDFPEPADLFWKYLDLATFILLYILPLLIIISVAYARVAKKLWLCNMIGDVTTEQY
 FALRRKKKTIKMLMLVVVLFALCWFPPLNCYVLLLSKVIRTNNALYFAHWFAMSSTCYNPFIIYCWLNE
 NFRIELKALLSMCQRPPKPQEDRPPSPVPSFRVAWTEKNDGQRAPLANLLPTSQQLQSGKTDLSSVEPIV
 TMS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_016540

ORF Size: 1269 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_016540.2](#), [NP_057624.2](#)

RefSeq Size: 4109 bp

RefSeq ORF: 1272 bp

Locus ID: 10888

UniProt ID: [Q9NYM4](#)

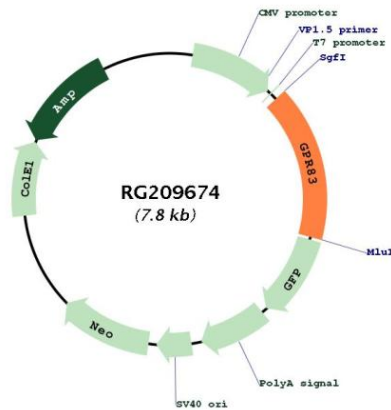
Cytogenetics: 11q21

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: Orphan receptor. Could be a neuropeptide Y receptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209674