

Product datasheet for **RG219212**

GPR39 (NM_001508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR39 (NM_001508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR39
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219212 representing NM_001508 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCACCCAGCCTCCCGGGCAGTGACTGCTCCCAAATCATTGATCACAGTCATGTCCCCGAGTTTG
AGGTGGCCACCTGGATCAAAATCACCTTATTCTGGTGTACCTGATCATCTTCGTGATGGCCTTCTGGG
GAACAGCGCCACCATTCCGGTCAACCAGGTGCTGCAGAAGAAAGGATACTTGCAGAAGGAGGTGACAGAC
CACATGGTGAGTTTGGCTTGTCTGGACATCTTGGTGTTCCTCATCGGCATGCCCATGGAGTTCTACAGCA
TCATCTGGAATCCCCTGACCACGTCCAGCTACACCCTGTCTGCAAGCTGCACACTTTCTCTTCGAGGC
CTGCAGCTACGCTACGCTGCTGCACGTGCTGACACTCAGCTTTGAGCGCTACATCGCCATCTGTACACCC
TTCAGGTACAAGGCTGTGTCCGGACCTTCCAGGTGAAGCTGCTGATTGGCTTCGTCTGGGTACACCTCCG
CCCTGGTGGCACTGCCCTTGCTGTTTGCCATGGTACTGAGTACCCCTGGTGAACGTGCCAGCCACCCG
GGGTCTCACTTGCAACCGCTCCAGCACCCGCCACCACGAGCAGCCGAGACCTCCAATATGTCCATCTGT
ACCAACCTCTCCAGCCGCTGGACCGTGTCCAGTCCAGCATCTTCGGCGCCTTCGTGGTCTACCTCGTGG
TCCTGCTCTCCGTAGCCTTCATGTGCTGGAACATGATGCAGGTGCTCATGAAAAGCCAGAAGGGCTCGCT
GGCCGGGGCACGCGCCTCCGAGCTGAGGAAGTCCGAGAGCGAAGAGAGCAGGACCGCCAGGAGGCAG
ACCATCATCTTCTGAGGCTGATTGTTGTGACATTGGCCGTATGCTGGATGCCAACCCAGATTCCGAGGA
TCATGGCTGCGGCCAAACCAAGCAGACTGGACGAGGTCTACTTCCGGCGTACATGATCCTCCTCCC
CTTCTCGGAGACGTTTTTCTACCTCAGCTCGGTATCAACCCGCTCCTGTACACGGTGTCTCGCAGCAG
TTTCGGCGGGTGTTCGTGCAGGTGCTGTGCTGCCGCTGTGCTGCAGCACGCCAACCCAGAGAAGCGCC
TGCGCGTACATGCGCACTCCACCACCGACAGCGCCGCTTTGTGCAGCGCCGTTGCTCTTCGCGTCCCG
GCGCCAGTCTCTGCAAGGAGAACTGAGAAGATTTTCTTAAGCACTTTTCAGAGCGAGGCCGAGCCCCAG
TCTAAGTCCCAGTCATTGAGTCTCGAGTCACTAGAGCCCAACTCAGGCGCGAAACCAGCCAATTCTGCTG
CAGAGAATGGTTTTTCAGGAGCATGAAGTTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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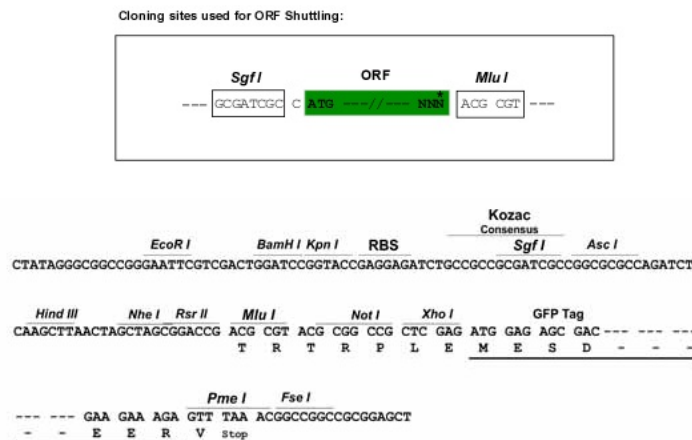
Protein Sequence: >RG219212 representing NM_001508
Red=Cloning site Green=Tags(s)

MASPSLPGSDCSQIIDHSHVPEFEVATWIKITLILVYLIIFVMGLLGNSATIRVTQVLQKKGYLQKEVTD
 HMVSLACSDILVFLIGMPMEFYSIWNPLTSSYTLCKLHTLFEACSYATLLHVLTLSEFYIAICHP
 FRYKAVSGPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSNSMIC
 TNLSSRWTVFQSSIFGAFVVYL VVLLSVAFMCMWMMQVLMKSQKGLAGGTRPPQLRKSESEESRTARRQ
 TIIIFLRLIVVTLAVCWMPNQIRIRIMAAAKPKHDWTRSYFRAYMILLPFSETFYLYSSVINPLLYTVSSQQ
 FRRVFVQVLCCLSLQHANEKRLRVHAHSTTDSARFVQRPLL FASRRQSSARRTEKIFLSTFQSEAEQP
 SKSQSLSELEPNSGAKPANSAAENGFEHEV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001508

ORF Size: 1361 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_001508.1](#), [NP_001499.1](#)

RefSeq Size: 1362 bp

RefSeq ORF: 1362 bp

Locus ID: 2863

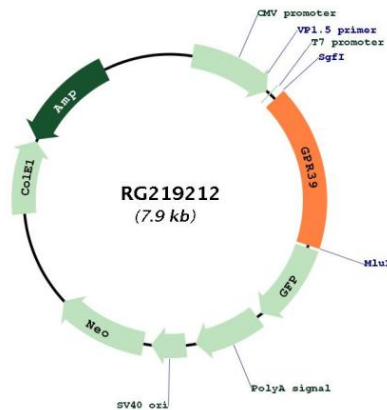
UniProt ID: [O43194](#)

Cytogenetics: 2q21.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene is a member of the ghrelin receptor family and encodes a rhodopsin-type G-protein-coupled receptor (GPCR). The encoded protein is involved in zinc-dependent signaling in epithelial tissue in intestines, prostate and salivary glands. The protein may also be involved in the pathophysiology of depression. [provided by RefSeq, Jun 2016]

Product images:



Circular map for RG219212