

Product datasheet for **RG224343**

GPR103 (QRFPR) (NM_198179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR103 (QRFPR) (NM_198179) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR103
Synonyms:	AQ27; GPR103; SP9155
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224343 representing NM_198179 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGCGTTAACATTACCCCGGAGCAGTTCTCTCGGCTGCTGCGGGACCACAACCTGACGCGGGAGC
AGTTCATCGCTCTGTACCGGCTGCGACCGCTCGTCTACACCCAGAGCTGCCGGGACGCGCAAGCTGGC
CCTCGTGCTACCGGCGTCTCATCTTCGCCCTGGCGCTCTTTGGCAATGCTCTGGTGTCTACGTGGT
ACCCGCAGCAAGGCCATGCGCACCGTACCAACATCTTTATCTGCTCCTGGCGCTCAGTGACCTGCTCA
TCACCTTCTTCTGCATCCCGTACCATGCTCCAGAACATTTCCGACAACCTGGCTGGGGGTGCTTTCAT
TTGCAAGATGGTGCCATTTGTCCAGTCTACCGCTGTTGTGACAGAAATCCTCACTATGACCTGCATTGCT
GTGGAAAGGCACCAAGGACTTGTGCATCCTTTAAATGAAGTGCAATACACCAACCGAAGGGCTTTCA
CAATGCTAGGTGTGGTCTGGCTGGTGGCAGTCATCGTAGGATCACCCATGTGGCAGTGCAACAACCTTGA
GATCAAAATAGACTTCTATATGAAAAGGAACACATCTGCTGCTTAGAAGAGTGGACCAGCCCTGTGCAC
CAGAAGATCTACACCACCTTCATTCTTGTATCCTCTTCTCTGCTCTTATGGTATGCTTATTCTGT
ACAGTAAAATGGTTATGAACTTTGGATAAAGAAAAGAGTTGGGGATGGTTCAGTGCTTCGAACTATTCA
TGGAAAAGAAATGTCCAAAATAGCCAGGAAGAAGAAACGAGCTGTCATTATGATGGTGACAGTGGTGGCT
CTCTTTGCTGTGCTGGGCACCATTCATGTTGTCATATGATGATTGAATACAGTAATTTTGAAGG
AATATGATGATGTCACAATCAAGATGATTTTGTCTATCGTCAAATATTGGATTTTCCAATCCATCTG
TAATCCCATTGTCTATGCATTTATGAATGAAAACCTCAAAAAAAAAATGTTTCGCTCTGCAGTTTGTATTGC
ATAGTAAATAAACCTTCTCTCCAGCACAAAGGCATGGAATTCAGGAATTACAATGATGCGGAAGAAAAG
CAAAGTTTCCCTCAGAGAGAATCCAGTGGAGGAAACCAAGGAGAAGCATTAGTATGCAACATTGA
AGTCAAATTGTGTGAACAGACAGAGGAGAAGAAAAGCTCAAACGACATCTTGCTCTTTAGGTCTGAA
CTGGCTGAGAATTCTCTTTAGACAGTGGGCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224343 representing NM_198179
Red=Cloning site Green=Tags(s)

MQALNITPEQFSRLLRDHNLTREQFIALYRLRPLVYTPPELPGRAKLALVLTGVLIFALALFGNALVFYVV
 TRSKAMRTVTNIFICSLALSDLLITFFCIPVTMLQNISDNWLGGAFIGKMPVQSTAVVTEILTMCIA
 VERHQGLVHPFKMKWQYTNRRATMLGVVWLVAVIVGSPMWHVQQLLEIKYDFLYEKEHICCLEEWTSPVH
 QKIYTTFFILVILFLLPLMVMLILYSKIGYELWIKKRVGDGSLRTIHGKEMSKIARKKKRAVIMMVTVVA
 LFAVCWAPFHVHMMIEYSNFEKEYDDVTIKMIFAIIVQIIGFSNSICNPIVYAFMNFKKNVSSAVCYC
 IVNKTFFSPAQRHGNSGITMMRKKAKFSLRENPEETKGEAFSDGNIEVKLCEQTEEKKKLKRHLALFRSE
 LAENSPLDSGH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_198179

ORF Size: 1293 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_198179.1](#), [NP_937822.1](#)

RefSeq Size: 1296 bp

RefSeq ORF: 1296 bp

Locus ID: 84109

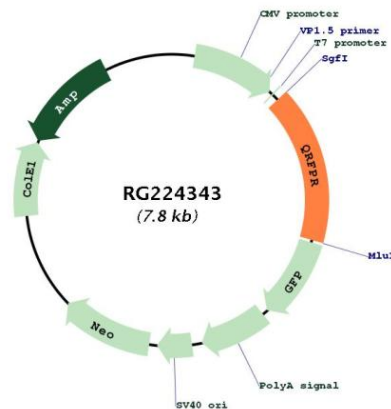
UniProt ID: [Q96P65](#)

Cytogenetics: 4q27

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Receptor for the orexigenic neuropeptide QRFP. The activity of this receptor is mediated by G proteins that modulate adenylate cyclase activity and intracellular calcium levels. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224343