

## Product datasheet for RC210922

### GPR100 (RXFP4) (NM\_181885) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR100 (RXFP4) (NM_181885) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR100
Synonyms:	GPCR142; GPR100; RLN3R2; RXFPR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210922 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCACTCAATACTTCTGCCTCTCCACCCACATTCTTCTGGGCAATGCCTCCGGAGGCAGTGTGC  
TGAGTGTGATGATGCTCCGATGCCTGTCAAATTCCTAGCCCTGAGGCTCATGGTTGCCCTGGCCTATGG  
GCTTGTGGGGCCATTGGCTTGTGGGAAATTTGGCGGTGCTGTGGGTACTGAGTAACTGTGCCCGGAGA  
GCCCTGGCCACCTTCAGACACCTTCGTCTTCAACCTGGCTCTGGCGGACCTGGGACTGGCACTCACTC  
TCCCTTTTGGGAGCCGAGTCGGCACTGGACTTTCAGTGGCCCTTCGGAGGTGCCCTCTGCAAGATGGT  
TCTGACGGCCACTGTCTCAACGTCTATGCCAGCATCTTCTCATCACAGCGCTGAGCGTTGCTCGCTAC  
TGGGTGGTGGCCATGGCTGCGGGGCCAGGCACCCACCTCTCACTCTTCTGGGCCGAATAGCCACCTGG  
CAGTGTGGGCGGCGGCTGCCCTGGTGACGGTGCCACAGCTGTCTTCGGGTGGAGGGTGAAGTGTGTGG  
TGTGCCCTTTGCCTGTGCGTTTCCCCAGCAGTACTGGCTGGGGGCCCTACCAGCTGCAGAGGGTGGTG  
CTGGCTTTCATGGTGGCCTTGGGCGTATCACCACCAGTACCTGCTGCTGCTGGCCTTCTGCAGCGGC  
GGCAACGGCGGCGGAGGACAGCAGGGTCTGGCCCGCTGTCCGCATCCTGGTGGCTTCTTCTTCTCT  
CTGCTGGTTTCCAACCATGTGGTCACTCTCTGGGTGTCTGGTGAAGTTTGACCTGGTGGCCTGGAAC  
AGTACTTCTATACTATCCAGACGTATGCTTCCCTGTCACTACTTGGTGGCACACAGCAATAGCTGCC  
TCAACCCTGTGCTGTACTGTCTCCTGAGGCGGGAGCCCGGAGGCTCTGGCAGGCACCTTCAGGGATCT  
CGGGTTCGAGGCTGTGGCCCGAGGCGGAGGCTGGGTGCAACAGGTGGCCCTAAAGCAGGTAGGCAGGCGG  
TGGGTGCAAGCAACCCCGGAGAGCCGCCCTTCTACCCTGCTCACCACCTGGACAGAGGGACACCCG  
GG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210922 protein sequence  
Red=Cloning site Green=Tags(s)

MPTLNTSASPPTFFWANASGGSVLSADDAPMPVKFLALRLMVALAYGLVGAIGLLGNLAVLWVLSNCARR  
 APGPPSDTFVFNALADLGLAL TLPFWAAESALDFHWPFGALCKMVL TATVNLVYASIFLITALS VARY  
 WVVAMAAGPGTHLSLFWARIATLAVWAAAALVTVP TAVFGVEGEVCGVRLCLLRFPSRYWL GAYQLQRVV  
 LAFMVPLGVITTSYLLLLAFLQRRQRRRQDSRVVARSVRILVASF FLCWFPNHVVTLWGVLVKFDLVPWN  
 STFYTIQTYVFPVTTCLAHSNSCLNPVLYCLLRREPRQALAGTFRDLRSRLWPQGGGWVQQVALKQVGRR  
 WVASNPRESRPSTLLTNLDRGTPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6592\\_e09.zip](https://cdn.origene.com/chromatograms/mk6592_e09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_181885

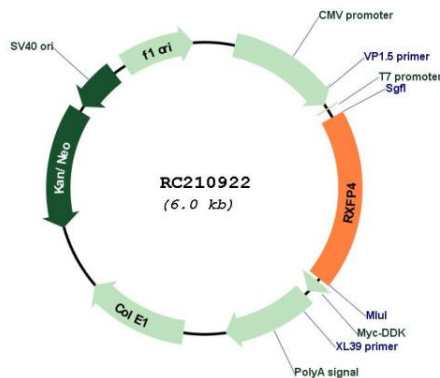
**ORF Size:** 1122 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_181885.3</a></u>
<b>RefSeq Size:</b>	1146 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	339403
<b>UniProt ID:</b>	<u><a href="#">Q8TDU9</a></u>
<b>Cytogenetics:</b>	1q22
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	41.1 kDa
<b>Gene Summary:</b>	GPR100 is a member of the rhodopsin family of G protein-coupled receptors (GPRs) (Fredriksson et al., 2003 [PubMed 14623098]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RC210922