

Product datasheet for **RG224208**

GPR142 (NM_181790) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR142 (NM_181790) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR142
Synonyms:	GPRg1b; PGR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG224208 representing NM_181790
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTATTATGATGTTGCCCATGGAGCAAAGATCCAGTGGTCCCCTTCCCTGCAGGACATCACTG
 CTGTCTGGGTACAGAAGCATATACTGAGGAAGACAAATCAATGGTGTCCCATGCACAGAAAAGCCAGCA
 TTCTTGTCTCAGCCATTCAGGTGGCTGAGGTCTCCACAGGTCACAGGGGAAGCTGGGACCTCCGAATA
 AGGCCATCCAAGGACTCCAGCAGTTTCCGCCAGGCTCAGTGTCTGCGTAAGGATCCTGGGCAAACAACC
 ACTTGGAGAGCCAAGGGGTGAGAGGTACAGCTGGCGATGCTGACAGGGAGCTGCGGGACCTCAGAAAA
 AGCCACAGCTGGCCAGCCACGAGTGACCCTGCTGCCACGCCACGTCAGCGGGCTGAGCCAGGAGTTT
 GAAAGCCACTGGCCAGAGATCGCAGAGAGGTCCCCGTGTGGCTGGCGTCATCCCTGTCATCTACTACA
 GTGTCTGCTGGCTTGGGGCTGCCTGTCAGCCTCCTGACCGCAGTGGCCCTGGCGGCCCTTGCACCAG
 GACCAGGAGGCCCTCCTACTACTACCTTCTGGCGCTCACAGCCTCGGATATCATATCCAGTGGTTCATC
 GTGTTCCGCGGGCTTCTCCTGCAGGGAGCAGTGTGGCCCGCCAGGTGCCCCAGGCTGTGGTGGCGACGG
 CCAACATCCTGGAGTTTCTGCCAACCACGCCTCAGTCTGGATCGCCATCCTGCTCACGGTTGACCGCTA
 CACTGCCCTGTGCCACCCCTGCACCATCGGGCCGCTCGTCCCAGGCCGACCCGCGGGCCATTGCT
 GCTGTCTGAGTGTGCCTGTTGACCGGCATCCCCTTCTACTGGTGGCTGGACATGTGGAGAGACCCG
 ACTCACCCAGAACACTGGACGAGGTCTCAAGTGGGCTCACTGTCTCACTGTCTATTTTATCCCTTGTGG
 CGTGTCTCTGGTACCAACTCGGCCATCATCCACCGCTACGGAGGAGGGCCGGAGTGGGCTGCAGCCC
 CGGGTGGCAAGAGCACAGCCATCCTCTGGGCATCACCACTGTTACCCCTCCTGTGGCGCCCCGGG
 TCTTCGTCATGCTTACCACATGTACGTGGCCCTGTCACCGGGACTGGAGGGTCCACCTGGCCTTGA
 TGTGGCCAAATATGGTGGCCATGCTCCACACGGCAGCCAACTTCGGCTCTACTGCTTTGTACGAAGACT
 TTCGGGGCCACTGTCCGACAGGTATCCACGATGCCTACCTGCCCTGCACTTTGGCATCACAGCCAGAGG
 GCATGGCGGCGAAGCCTGTGATGGAGCCTCCGGGACTCCCACAGGGGCAGAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224208 representing NM_181790
 Red=Cloning site Green=Tags(s)

MSIMMLPMEQKIQWVPTSLQDITAVLGTEAYTEEDKSMVSHAQKSQHSLSHSRWLRSPQVTGGSWDLRI
 RPSKSSFRQAQCLRKDPGANNHLESQGVVGTAGDADREL RGPSEKATAGQPRVTLPTPHVSGLSQEF
 ESHWPEIAERSPCVAGVIPVIYYSVLLGLLPLVSLTAVALARLATRTRRPSYYYLLAL TASDIIQVVI
 VFAGFLLQGAVLARQVPQAVVRTANILEFAANHASVWIAILLTVDRYTALCHPLHHRASSPGRTRRAIA
 AVL SAALLTGIPFYWWLDMWRDTSPTLDEVLKWHL TVYFIPCGVFLVNSAI IHRLRRRGRSGLQP
 RVGKSTAILLGITTLFTLLWAPRVFVMLYHMYVAPVHRDWRVHLALDVANMVAMLHTAANFGLYCFVSKT
 FRATVRQVIHDAYLPCTLASQPEGMAAKPVMPEPPLPTGAEV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_181790

ORF Size: 1386 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_181790.1](#), [NP_861455.1](#)

RefSeq Size: 1389 bp

RefSeq ORF: 1389 bp

Locus ID: 350383

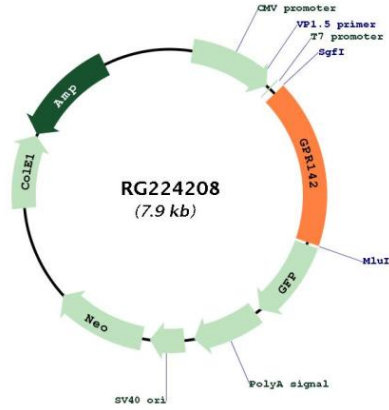
UniProt ID: [Q7Z601](#)

Cytogenetics: 17q25.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: GPR142 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 RG224208