

Product datasheet for **RG213524**

GPR22 (NM_005295) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR22 (NM_005295) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213524 representing NM_005295 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTTTTCTCCATTCTGGAAATCAACATGCAGTCTGAATCTAACATTACAGTGCAGATGACATTG
ATGACATCAACACCAATATGTACCAACCACTATCATATCCGTTAAGCTTTCAGTGTCTCTACCCGGATT
TCTTATGTTAGAAATTGTGTTGGGACTTGGCAGCAACCTCACTGTATTGGTACTTTACTGCATGAAATCC
AACTTAATCAACTCTGTCAGTAACATTATTACAATGAATCTTCATGTACTTGATGAATAATTTGTGTGG
GATGTATTCTCTAACTATAGTTATCCTTCTGCTTTCCTGCTGAGAGTAACACTGCTCTCATTTCGTGTT
CCATGAGGCTTGTGTATCTTTTGCAAGTGTCTCAACAGCAATCAACGTTTTTGTATCACTTTGGACAGA
TATGACATCTCTGTAAAACCTGCAAACCGAATTCTGACAATGGGAGAGCTGTAGTGTAAATGATATCCA
TTTGGATTTTTCTTTTTCTTTCTGATTCCTTTTATTGAGGTAAATTTTTTCAGTCTTCAAAGTGG
AAATACCTGGGAAAACAAGACACTTTTTATGTGTCAGTACAAATGAATACTACACTGAACTGGGAATGTAT
TATCACCTGTTAGTACAGATCCCAATATCTTTTTCACTGTTGTAGTAATGTTAATCACATACACAAAA
TACTTCAGGCTCTTAATATTCGAATAGGCACAAGATTTTCAACAGGCAGAGAAGAAAGCAAGAAAGAA
AAAGACAATTTCTAACCACACAACATGAGGCTACAGACATGTCACAAAGCAGTGGTGGGAGAAATGTA
GTCTTTGGTGTAAGAACTTCAGTTTCTGTAATAATTGCCCTCCGGCGAGCTGTGAAACGACACCGTGAAC
GACGAGAAAGACAAAAGAGAGTCTTCAGGATGTCTTTATTGATTATTTCTACATTTCTTCTGCTGGAC
ACCAATTTCTGTTTTAAATACCACATTTTATGTTTAGGCCCAAGTGACTTTTAGTAAAATTAAGATTG
TGTTTTTTAGTCATGGCTTATGGAACAATATTTTACCCTCTATTATATGCATTCAGTACAAAAAT
TTCAAAAGGTCTTGAAAAGTAAAATGAAAAGCGAGTTGTTTCTATAGTAGAAGCTGATCCCTGCCTAA
TAATGCTGTAATACAACTCTTGGATAGATCTAAAAGAAAACAAAAAATTACCTTTGAAGATAGTGAA
ATAAGAGAAAAATGTTTAGTGCCCTCAGTTGTACAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213524 representing NM_005295
 Red=Cloning site Green=Tags(s)

MCFSPILEINMQSESNITVRDDIDDINTNMYQPLSYPLSFQVSLTGFLMLEIVLGLGSNLTVLVLYCMKS
 NLINSVSNIIITMNLHVLVDVVICVGCIPLTIVILLLSLESNTALICCFHEACVSFASVSTAINVFAITLDR
 YDISVKPANRILTMGRAVVLMSIWIFSFFSFLIPFIEVNFFSLQSGNTWENKTLKCVSTNEYYTELGMV
 YHLLVQIPIFFFTVVVMLITYTKILQALNIRIGTRFSTGQKKKARKKKTISLTTQHEATDMSQSSGGRNV
 VFGVRTSVSVIIALRRVAVKRHRERRERQKRVRMSLLIISTFLLCWTPISVLNNTTILCLGPSDLLVKLRL
 CFLVMAYGTTIFHPLLYAFTRQKFQKVLKSKMKKRVSIVEADPLPNNAVIHNSWIDPKRNKKITFEDSE
 IREKCLVPQVVT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005295

ORF Size: 1299 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_005295.3](#)

RefSeq Size: 1302 bp

RefSeq ORF: 1302 bp

Locus ID: 2845

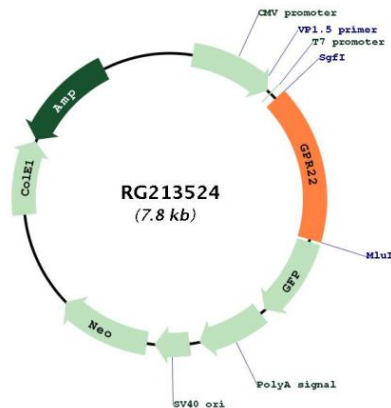
UniProt ID: [Q99680](#)

Cytogenetics: 7q22.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene is a member of the G-protein coupled receptor 1 family and encodes a multi-pass membrane protein. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213524