

Product datasheet for **RG209671**

GPR45 (NM_007227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR45 (NM_007227) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR45
Synonyms:	PSP24; PSP24(ALPHA); PSP24A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209671 representing NM_007227 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTGCAACAGCACGTCCCTTGAGGCTTACACATACCTGCTGCTGAACACCAGCAACGCCTCAGACT
CGGGGTCCACCCAGTTGCCCGCACCCCTCAGGATCTCCTTGCCATAGTGATGCTGCTGATGACCGTGGT
GGGGTTCTGGGCAACTGTGGCTGCATCATCGTGTACCAGAGCGCGCTATGCGCTCGGCCATCAAC
CTGCTGCTGGCCACCCTGGCCTTCTCCGACATCATGCTGTCCCTCTGCTGCATGCCCTTCACCGCCGTC
CCCTCATCACCGTGGCTGGCACTTTGGGGACCACTTCTGCCGCCTCTCAGCCACGCTCTACTGGTTTTT
TGTCTGGAGGGCGTGGCCATCCTGCTCATCATCAGCGTGGACCGCTTCCATCATCGTCCAGCGCCAG
GACAAGCTGAACCCGCGCAGGGCAAGGTGATCATCGCGTCTCCTGGGTGCTGTCTTCTGCATCGCGG
GGCCCTCGCTCACGGGCTGGACGCTGGTGGAGGTGCCGGCGGGGCCACAGTGCCTGCTGGGCTACAC
GGAGCTCCCCGCTGACCGCGCTACGTGGTACCTTGGTGGTGGCCGTGTTCTTCGCGCCCTTTGGCGTC
ATGCTGTGCGCTACATGTGCATCCTCAACACGGTCCGCAAGAACGCCGTGCGCTGCACAACAGTCGG
ACAGCTGGACCTGCGGCAGCTCACCAGGGCGGGCCTGCGGCCTGCAGCGGCAGCAACAGGTACGCGT
GGACTTGAGCTTCAAGACCAAGGCCTTACCACCATCTGATCCTCTTCGTTGGGCTTCTCCCTCTGCTGG
CTGCCCACTCCGCTACAGCCTCTGTCTGTGTTTAGCCAGCGCTTTACTGCGGTTCTCCTTCTACG
CCACCAGCACCTGCGTCTGTGGCTCAGTTACCTCAAGTCCGTCTTCAACCCATCGTCTACTGCTGGAG
AATCAAAAAATTCGCGAGGCCTGCATAGAGTTGCTGCCCCAGACCTTCAAATCCTCCCAAAAGTGCCT
GAGCGGATCCGAAGGAGAATCCAGCCAAGCACAGTCTACGTGTGAATGAAAACAGTCTGCGGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209671 representing NM_007227
 Red=Cloning site Green=Tags(s)

MACNSTSLEAYTYLLLNTSNASDSGSTQLPAPLRISLAIVMLLMTVVGFLGNTVVCIIIVYQRPAMRSAIN
 LLLATLAFSDIMLS LCCMPFTAVTLITVRWHFGDHF CRLSATLYWFFVLEGVAILLIISVDRFLIIVQRQ
 DKLNPRAKVIIAVSWVLSFCIAGPSLTGWTLVEVPARAPQCVLGYTELPADRAYVVTLVVAVFFAPFGV
 MLCAYMCILNTRKNAVRVHNQSDSLDLRQLTRAGLRRLRQQQVSVDL SFKTKAFTTILILFVGFSLCW
 LPHSVYSLLSVFSQRFYCGSSFYATSTCVLWLSYLKSVFNPIVYCWRIKKFREACIELLPQTFQILPKVP
 ERIRRRIQPSTVYVCNENQSAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007227

ORF Size: 1116 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_007227.3](#), [NP_009158.3](#)

RefSeq Size: 1725 bp

RefSeq ORF: 1119 bp

Locus ID: 11250

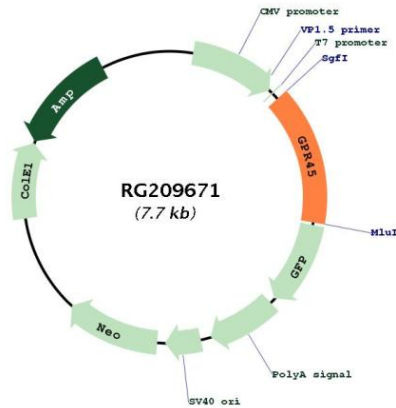
UniProt ID: [Q9Y5Y3](#)

Cytogenetics: 2q12.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This intronless gene encodes a member of the G protein-coupled receptor (GPCR) family. Members of this protein family contain seven putative transmembrane domains and may mediate signaling processes to the interior of the cell via activation of heterotrimeric G proteins. This protein may function in the central nervous system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209671