

## Product datasheet for **RG217045**

### GPR42P (NM\_005305) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR42P (NM_005305) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR42P
Synonyms:	FFAR1L, GPR41L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217045 representing NM_005305 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATACAGGCCCGACCAGTCTACTTCTCCGGCAATCACTGGTTCGTCTTCTCGGTGTACCTTCTCA  
CTTTCCTGGTGGGGCTCCCCCTCAACCTGCTGGCCCTGGTGGTCTTCGTGGGCAAGCTGCAGCGCCGCC  
GGTGGCCGTGGACGTGCTCCTGCTCAACCTGACCCTCGGACCTGCTCCTGCTGCTGTTCTGCCTTC  
CGCATGGTGGAGGAGCAATGGCATGCACTGGCCCTGCCCTTCATCCTCTGCCACTCTCTGGATTCA  
TCTTCTCACCACCATCTATCTCACCGCCCTTCTCCTGGCAGCTGTGAGCATTGAACGCTTCTGAGTGT  
GGCCACCCACTGTGGTACAAGACCCGGCCGAGGCTGGGGCAGGCAGGCTGGTGAAGTGTGCCTGCTGG  
CTGTTGGCCTCTGCTCACTGCAGCGTGGTCTACGTATAGAAATTCAGGGGACATCTCCACAGCCAGG  
GCACCAATGGGACCTGCTACCTGGAGTTCGGAAGGACCAGCTAGCCATCCTCCTGCCCGTGGCGGTGGA  
GATGGCTGTGGTCTTGTGGTCCCGCTGATCATCACCAGCTACTGCTACAGCCCGCTGGTGTGGATC  
CTCGGCAGAGGGGCGAGCCACCGCCGCGAGAGGAGGGTGGCGGGCTGTTGGCGGCCACGCTGCTCACT  
TCCTTGTCTGCTTGGGCCCTACAACGTGTCCATGTCTGGGCTATATCTGCGGTGAAAGCCCGCGTG  
GAGGATCTACGTGACGCTTCTCAGCACCTGAACCTCTGTGTCGACCCCTTGTCTACTACTTCTCTCC  
TCCGGGTTCCAAGCCGACTTTCATGAGCTGCTGAGGAGTGTGTGGGCTCTGGGCCAGTGGCAGCAGG  
AGAGCAGCATGGAGCTGAAGGAGCAGAAGGGAGGGAGGAGCAGAGAGCGGACCGAGCTGAAAGAAA  
GACCAGTGAACACTCACAGGGCTGTGGAAGTGGTGGCCAGGTGGCCTGTGCTGAAAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >RG217045 representing NM\_005305  
 Red=Cloning site Green=Tags(s)

MDTGPDQSYFSGNHWFVFSVYLLTFLVGLPLNLLALVVFVGLQRRPVAVDVLNLTASDLLLFLPF  
 RMVEAANGMHWLPLFILCPLSGFIFFTTIYLTALFLAAVSIERFLSVAHPLWYKTRPRLGQAGLVSACW  
 LLASAHCSVVYVIEFSGDISHSQGTNGTCYLEFRKQDLAILLPVRLEMAVVLVFPVLIITSYCYSRLVWI  
 LGRGGSRRRQRRVAGLLAATLLNFLVCFGPYNVSHVVG YICGESP AWRIYV TLLSTLNSCVDPFVYVYFSS  
 SGFQADFHELLRRLCGLWGQWQEQESSMELKEQKGGEEQRADRP AERKTSEHSQCGTGGQVACAES

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005305

**ORF Size:** 1037 bp

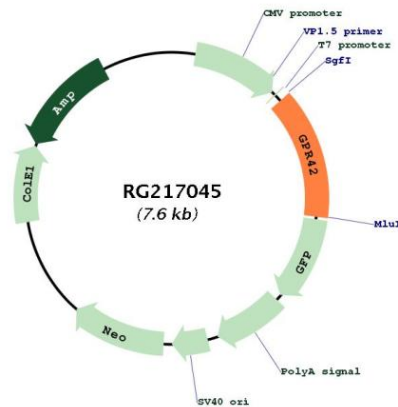
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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:	<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>
RefSeq:	<a href="#">NM_005305.1</a> , <a href="#">NP_005296.1</a>
RefSeq Size:	1041 bp
RefSeq ORF:	1040 bp
Locus ID:	2866
Cytogenetics:	19q13.12
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Probable G protein-coupled receptor that may be activated by a major product of dietary fiber digestion, the short chain fatty acids (SCFAs), and that may play a role in the regulation of whole-body energy homeostasis and/or in intestinal immunity.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG217045