

Product datasheet for **RG217482**

GPR18 (NM_001098200) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR18 (NM_001098200) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217482 representing NM_001098200 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCACCCCTGAACAATCAAGATCAACCTGTCCCTTTAACAGCTCACATCCAGATGAATACAAAATTG
CAGCCCTGTCTTCTATAGCTGTATCTTCATAATTGGATTATTTGTTAACATCACTGCATTATGGGTTTT
CAGTTGTACCACCAAGAAGAGAACCACGGTAACCATCTATATGATGAATGTGGCATTAGTGGACTTGATA
TTTATAATGACTTTACCCTTTTGAATGTTTTATTATGCAAAGATGAATGGCCATTTGGAGAGTACTTCT
GCCAGATTCTTGGAGCTTCACAGTGTTCACCAAGCATTGCTTTATGGCTTCTTGCCTTTATTAGTGC
TGACAGATACATGGCCATTGTACAGCCGAAGTACGCCAAAGAAGTAAAAACACGTGCAAAGCCGTGCTG
GCGTGTGTGGGAGTCTGGATAATGACCCTGACCACGACCACCCCTCTGCTACTGCTCTATAAAGACCCAG
ATAAAGACTCCACTCCCACCCTGCCTCAAGATTTCTGACATCATCTATCTAAAAGCTGTGAACGTGCT
GAACCTCACTCGACTGACATTTTTTTCTTGATTCCTTTGTTTCATCATGATTGGGTGCTACTTGGTCATT
ATTCATAATCTCCTTACGGCAGGACGTCTAAGCTGAAACCCAAAGTCAAGGAGAAGTCCATAAGGATCA
TCATCACGCTGCTGGTGCAGGTGCTCGTCTGCTTTATGCCCTTCCACATCTGTTTCGCTTTCCTGATGCT
GGGAACGGGGGAGAACAGTTACAATCCCTGGGGAGCCTTACCACCTTCCATGAACCTCAGCACGTGT
CTGGATGTGATTCTACTACATCGTTTCAAACAATTTCAAGCTCGAGTCATTAGTGTCATGCTATAACC
GTAATTACCTTGAAGCATGCGCAGAAAAGTTCCGATCTGGTAGTCTACGGTCACTAAGCAATATAAA
CAGTGAATGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217482 representing NM_001098200
Red=Cloning site Green=Tags(s)

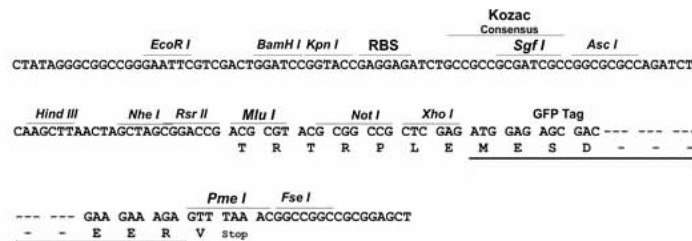
MITLNNQDQVPVFNSSHPDEYKIAALVFYSCIFIIGLFVNITALWVFSCTTKRRTVTIYMMNVALVDLI
 FIMTLPRMFYYAKDEWPFGEYFCQILGALTVFYPSIALWLLAFISADRYMAIVQPKYAKELKNTCKAVL
 ACVGVWIMTLTTTTPLLLLYKDPDKDSTPATCLKISDIIYLKAVNVNLTRLTFFFLIPLFIMIGCYLVI
 IHNLLHGRTSKLKPVKKEKSIRIIITLLVQVLVCFMPFHICFAFLMLGTGENSYNPWGAFITFLMNLSTC
 LDVILYIYVSKQFQARVISVMLYRNYLRSMRRKSFRRSGSLRSLSNINSEML

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001098200

ORF Size: 993 bp

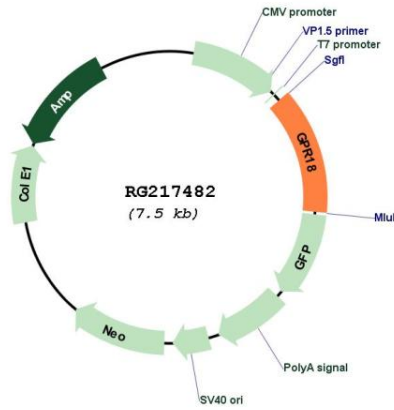
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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">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:	<u>NM_001098200.1</u> , <u>NP_001091670.1</u>
RefSeq Size:	1484 bp
RefSeq ORF:	996 bp
Locus ID:	2841
UniProt ID:	<u>Q14330</u>
Cytogenetics:	13q32.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (PubMed:16844083, PubMed:24762058, PubMed:27572937). However, conflicting results about the role of NAGly as an agonist are reported (PubMed:27018161). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:24762058). The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase (PubMed:16844083). May contribute to regulation of the immune system. Is required for normal homeostasis of CD8+ subsets of intraepithelial lymphocytes (IELs) (CD8alphaalpha and CD8alphabeta IELs)in small intestine by supporting preferential migration of CD8alphaalpha T-cells to intraepithelial compartment over lamina propria compartment, and by mediating their reconstitution into small intestine after bone marrow transplant (By similarity). Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure (By similarity). Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis (PubMed:27572937). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG217482