

## Product datasheet for RN212625

### Gpr18 (NM\_001079710) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gpr18 (NM\_001079710) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gpr18  
**Synonyms:** MGC156838  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN212625 representing NM\_001079710  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCATCCCGAGCAATCGCGACCAGCTTGCTCTTTCCAATGGTTCACACCCAGAGGAATACAAAATCG  
CAGCCCTGGTCTTCTACAGCTGCATCTTCTGATTGGGCTGCTTGTTAATGTCACCTGCCCTATGGGTTTT  
CAGCTGTACGACCAAGAAAAGAACCACCGTAACCATCTACATGATGAACGTCGCACTGCTGGACTTAGTA  
TTTATACTGAGTCTACCTTTCCGGATGTTTTACTATGCAAAGGCGAGTGGCCATTTGGAGACTACTTCT  
GCCACATCTTTGGGGCCCTGGTGGTGTTTTACCAAGCCTTGCTCTGTGGCTTCTTGCTCTCATTAGTGC  
TGACAGATACATGGCCATAGTACAGCCGAAATACGCCAAGGAACTCAAGAACACTGGCAAGGCGGTGCTC  
GCGTGTGTGGGGTCTGGATAATGACCCTGACCACCACTGTCCCTCTGCTACTGCTCGATGAAGACCCAG  
ATAAGGCCTCTCCCGGCCACCTGCCTGAAGATCTCCGACATCATCCACTTAAAAGCTGTCAATGTGCT  
TAATTCACGCGACTCATTTTTTCTTCTGATCCCTCTGTTTCATCATGATCGGGTGTACGTGGTCATC  
ATTCACAGCCTCCTCCCGGGCAGACGTCTAAGCTGAAGCCCAAGGTCAAGGAGAAGTCCATACGGATCA  
TCGTACGCTCCTGCTGCAGGTGCTTGCCTGCTTCGTGCCCTCCACATCTGTTTTGCTCTCTGATGCT  
ACAGGGGGAGGAGAACAGCTACAGCCCTGGGGAGCCTTACCACCTTCCCTCATGAACCTCAGCAGTGT  
CTCGACGTCGTTCTACTACATTGTTTCCAAACAGTTCAGGCTCGAGTCATCAGTGTCTGCTGTACC  
GCAATTACCTTCGAGTGTGCGCAGAAAAGTGTCCGGTCAGGCAGTCTACGGTCACTTAGCAACATGAA  
CAGTGAATGCTT**TGA**

**ACGGT**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001079710



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<b>Insert Size:</b>	996 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).</p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u><a href="#">NM_001079710.1</a></u> , <u><a href="#">NP_001073178.1</a></u>
<b>RefSeq Size:</b>	1357 bp
<b>RefSeq ORF:</b>	996 bp
<b>Locus ID:</b>	679957
<b>UniProt ID:</b>	<u><a href="#">A1A5S3</a></u>
<b>Cytogenetics:</b>	15q25
<b>Gene Summary:</b>	<p>Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (PubMed:24431468). However, conflicting results about the role of NAGly as an agonist are reported (By similarity). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:24431468). The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase (By similarity). May contribute to regulation of the immune system (By similarity). 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 (PubMed:24431468). Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis (By similarity).[UniProtKB/Swiss-Prot Function]</p>