

Product datasheet for **MC212221**

Gpr18 (NM_182806) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr18 (NM_182806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpr18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182806, the custom clone sequence may differ by one or more nucleotides

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ATGGCCACCCTGAGCAATCACAACCAGCTTGATCTTTCTAATGGCTCACACCCAGAGGAATACAAAATCG
CAGCCCTAGTCTTCTACAGCTGCATCTTCTGATTGGGCTGTTTGTTAATGTCACCTGCGTTGTGGGTTTT
CAGCTGTACGACCAAGAAAAGAACCACAGTGACCATCTACATGATGAACGTTGCACTACTGGACCTCGTA
TTTATACTCAGTCTGCCCTTTCGGATGTTTTACTATGCAAAGGCGAGTGGCCATTTGGAGAGTACTTCT
GCCACATCTTGGGGCCCTGGTGGTGTTTTACCAAGCCTCGCTCTGTGGCTTCTTGCTTTCATTAGTGC
TGACAGATACATGGCCATCGTACAGCCAAAATATGCCAAGGAGCTGAAGAACCACCGCAAGGCCGTGCTT
GCGTGTGGGGGGTCTGGGTAATGACCCGACCACCTGTCCCCTGCTACTGCTCTACGAAGACCCAG
ACAAGGCCTCCTCCCGGCCACCTGCCTGAAGATCTCCGACATCACCCACTTAAAAGCTGTCAACGTGCT
CAACTTCACGCGACTCATATTTTTCTTCTGATCCCTTTGTTTCATCATGATCGGGTGCTACGTGGTCATC
ATTCACAGTCTCCTCCGAGGGCAGACGTCTAAGCTGAAGCCCAAGGTCAAGGAGAAGTCCATACGGATCA
TCATGACCCTCCTGCTGCAGGTGCTCGTCTGCTTCGTGCCCTTCCACATCTGCTTGGCCGCTGATGCT
ACAAGGACAGGAGAACAGCTATAGCCCCTGGGGAGCCTTACCACCTTCCATGAACCTCAGCACCTGT
CTCGATGTAGTCTCTACTACATCGTTTTCAAACAGTTCAGGCTCGAGTCATCAGCGTCATGCTGTACC
GCAATTACCTTCGCAGTGTTCGAGAAAAGTGTCCGATCGGGCAGTTTACGGTCACTTAGCAACATGAA
CAGTGAGATGCTTTGA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_182806
Insert Size:	996 bp



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OTI Disclaimer:	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).
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:	BC034872 , AAH34872
RefSeq Size:	1334 bp
RefSeq ORF:	996 bp
Locus ID:	110168
UniProt ID:	Q8K1Z6
Cytogenetics:	14 65.86 cM
Gene Summary:	Receptor for endocannabinoid N-arachidonyl glycine (NAGly) (By similarity). However, conflicting results about the role of NAGly as an agonist are reported (PubMed:23104136). Can also be activated by plant-derived and synthetic cannabinoid agonists (By similarity). 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 (PubMed:25348153, PubMed:26197390). Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure (PubMed:23461720, PubMed:27893106). Mediates NAGly-induced process of reorganization of actin filaments and induction of acrosomal exocytosis (By similarity).[UniProtKB/Swiss-Prot Function]