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Product datasheet for MR204893

Gpr18 (NM_182806) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr18 (NM_182806) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204893 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCCTGAGCAATCACAACCAGCTTGATCTTTCTAATGGCTCACACCCAGAGGAATACAAAATCG
CAGCCCTAGTCTTCTACAGCTGCATCTTCCTGATTGGGCTGTTTGTTAATGTCACTGCGTTGTGGGTTTT
CAGCTGTACGACCAAGAAAAGAACCACAGTGACCATCTACATGATGAACGTTGCACTACTGGACCTCGTA
TTTATACTCAGTCTGCCCTTTCGGATGTTTTACTATGCAAAAGGCGAGTGGCCATTTGGAGAGTACTTCT
GCCACATTCTTGGGGCCCTGGTGGTGTTTTACCCAAGCCTCGCTCTGTGGCTTCTTGCTTTCATTAGTGC
TGACAGATACATGGCCATCGTACAGCCAAAATATGCCAAGGAGCTGAAGAACACCGGCAAGGCCGTGCTT
GCGTGTGGGGGGGTCTGGGTAATGACCCTGACCACCACTGTCCCCCTGCTACTGCTCTACGAAGACCCAG
ACAAGGCCTCCTCCCCGGCCACCTGCCTGAAGATCTCCGACATCACCCACTTAAAAGCTGTCAACGTGCT
CAACTTCACGCGACTCATATTTTTCTTCCTGATCCCTTTGTTCATCATGATCGGGTGCTACGTGGTCATC
ATTCACAGTCTCCTCCGAGGGCAGACGTCTAAGCTGAAGCCCAAGGTCAAGGAGAAGTCCATACGGATCA
TCATGACCCTCCTGCTGCAGGTGCTCGTCTGCTTCGTGCCCTTCCACATCTGCTTTGCCGTCCTGATGCT
ACAAGGACAGGAGAACAGCTATAGCCCCTGGGGAGCCTTCACCACCTTCCTCATGAACCTCAGCACCTGT
CTCGATGTAGTCCTCTACTACATCGTTTCCAAACAGTTCCAGGCTCGAGTCATCAGCGTCATGCTGTACC
GCAATTACCTTCGCAGTGTTCGCAGAAAAAGTGTCCGATCGGGCAGTTTACGGTCACTTAGCAACATGAA
CAGTGAGATGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

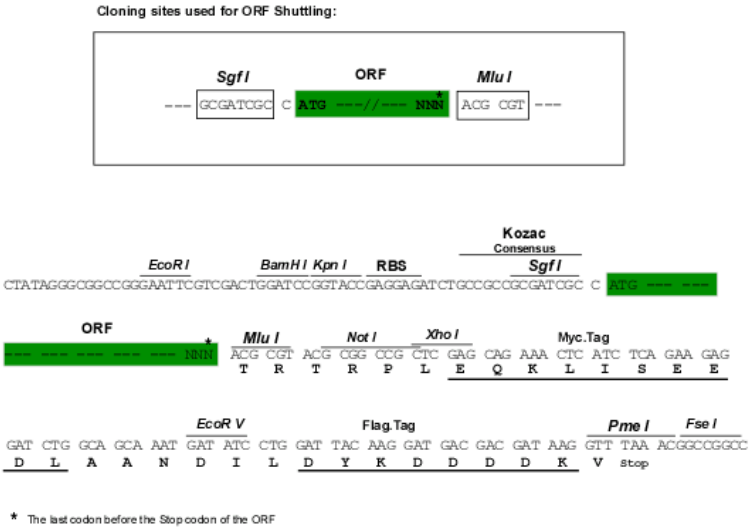
>MR204893 protein sequence
Red=Cloning site Green=Tags(s)

MATLSNHNQLDLSNGSHPEEYKIAALVFYSCIFLIGLFVNVTALWVFSCTTKKRTTVTIYMMNVALLDLV
FILSLPFRMFYYAKGEWPFGEYFCHILGALVVFYPSLALWLLAFISADRYMAIVQPKYAKELKNTGKAVL
ACGGVWVMTLTTTVPLLLLYEDPDKASSPATCLKISDITHLKAVNVLNFTRLIFFFLIPLFIMIGCYVVI
IHSLLRGQTSKLKPKVKEKSIRIIMTLLLQVLVCFVPFHICFAVLMLQGQENSYSPWGAFTTFLMNLSTC
LDVVLYYIVSKQFQARVISVMLYRNYLRSVRRKSVRSGSLRSLSNMNSEML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182806

ORF Size: 996 bp

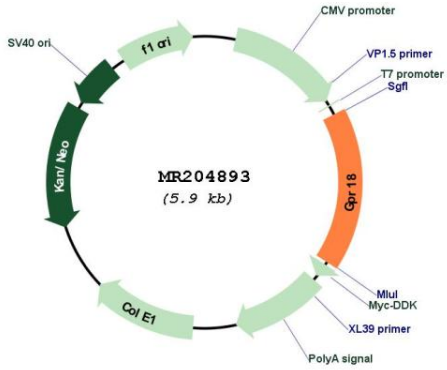
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_182806.1, NP_877958.1
RefSeq Size:	1334 bp
RefSeq ORF:	996 bp
Locus ID:	110168
UniProt ID:	Q8K1Z6
Cytogenetics:	14 65.86 cM
MW:	37.7 kDa
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 intstine 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]

Product images:



Circular map for MR204893