

Product datasheet for **SC321879**

GPR18 (NM_005292) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR18 (NM_005292) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005292.2

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CAGCAATTAAGTCAGCCAGCACCAACTCCGACGCCAAGCGTTACACTGGAACTACTT
TTTAAAGCAACAAAAGAGTCTAAAACAAAATACAACATTTCTTAAATACACTGTTCCAG
AAAGAGCTATTTTAAACAGAAGCAACTCAAAGATATCCCTTCGACAGAAGTGGAAAGTCTG
AAAAATGCTCATCTCTCACAGACTTTTGATGGACAGGAGGTGCTGCTTTCTGTGAACC
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TGTGCACTAGAAAACAGCTCATCTATTGCTCTAACAGTCTAGTTCCTTGATCTGCTGACCA
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CCTTTTAAACAGCTCACATCCAGATGAATACAAAATTGCAGCCCTTGTCTTCTATAGCTGT
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TACTTCTGCCAGATTCTTGGAGCTCTCACAGTGTTTTACCCAAGCATTGCTTTATGGCTT
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CTTAAAAACACGTGCAAAGCCGTGCTGGCGTGTGTGGGAGTCTGGATAATGACCTGACC
ACGACCACCCCTCTGCTACTGCTCTATAAAGACCCAGATAAAGACTCCACTCCC GCCACC
TGCTCAAGATTTCTGACATCATCTATCTAAAAGCTGTGAACGTGCTGAACCTCACTCGA
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CATAATCTCCTTCACGGCAGGACGTCTAAGCTGAAACCCAAAGTCAAGGAGAAGTCCATA
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CAATTTCAGGCTCGAGTCATTAGTGTATGCTATACCGTAATTACCTTCGAAGCATGCGC
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TGAATAATAAGTTCTTTTCATTTCAATCCCATCAAATTCACCTCACTAACTACTCTGGC
GTCAATGGATATTCTGTATAACTATCAAGTCCCTTTTCTTGTGAAAAAATAAATTCAT
TATCTTCATTTTAAAACTTATATAAAACATTTTGTGAATTAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_005292
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_005292.2 , NP_005283.1
RefSeq Size:	1617 bp
RefSeq ORF:	996 bp
Locus ID:	2841
UniProt ID:	Q14330
Cytogenetics:	13q32.3
Domains:	7tm_1
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]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.