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Product datasheet for RC216685

GPR119 (NM_178471) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR119 (NM_178471) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR119
Synonyms:	GPCR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC216685 representing NM_178471
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATCATCTTTCTCATTTGGAGTGATCCTTGCTGTCCTGGCCTCCCTCATCATTGCTACTAACACAC
TAGTGGCTGTGGCTGTGCTGCTGTTGATCCACAAGAATGATGGTGTCAGTCTCTGCTTCACCTTGAATCT
GGCTGTGGCTGACACCTTGATTGGTGTGGCCATCTCTGGCCTACTCACAGACCAGCTCTCCAGCCCTTCT
CGGCCCACACAGAAGACCCTGTGCAGCCTGCGGATGGCATTTGTCACTTCCTCCGCAGCTGCCTCTGTCC
TCACGGTCATGCTGATCACCTTTGACAGGTACCTTGCCATCAAGCAGCCCTTCCGCTACTTGAAGATCAT
GAGTGGGTTCGTGGCCGGGGCCTGCATTGCCGGGCTGTGGTTAGTGTCTTACCTCATTGGCTTCCTCCCA
CTCGGAATCCCCATGTTCCAGCAGACTGCCTACAAAGGGCAGTGCAGCTTCTTTGCTGTATTTCACCCTC
ACTTCGTGCTGACCCTCTCCTGCGTTGGCTTCTTCCCAGCCATGCTCCTCTTTGTCTTCTTCTACTGCGA
CATGCTCAAGATTGCCTCCATGCACAGCCAGCAGATTCGAAAGATGGAACATGCAGGAGCCATGGCTGGA
GGTTATCGATCCCCACGGACTCCCAGCGACTTCAAAGCTCTCCGTACTGTGTCTGTTCTCATTGGGAGCT
TTGCTCTATCCTGGACCCCCTTCCTTATCACTGGCATTGTGCAGGTGGCCTGCCAGGAGTGTCACCTCTA
CCTAGTGCTGGAACGGTACCTGTGGCTGCTCGGCGTGGGCAACTCCCTGCTCAACCCACTCATCTATGCC
TATTGGCAGAAGGAGGTGCGACTGCAGCTCTACCACATGGCCCTAGGAGTGAAGAAGGTGCTCACCTCAT
TCCTCCTCTTTCTCTCGGCCAGGAATTGTGGCCCAGAGAGGCCCAGGGAAAGTTCCTGTCACATCGTCAC
TATCTCCAGCTCAGAGTTTGATGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216685 representing NM_178471
Red=Cloning site Green=Tags(s)

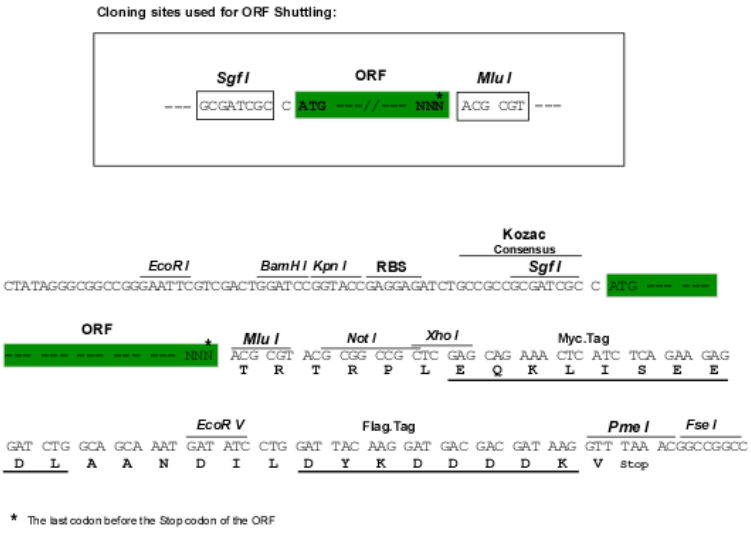
MESSFSFGVILAVLASLIIATNTLVAVAVLLLIHKNDGVSLCFTLNLAVADTLIGVAISGLLTDQLSSPS
RPTQKTLCSLRMAFVTSSAAASVLTVMLITFDRYLAIKQPFRYLKIMSGFVAGACIAGLWLVSYLIGFLP
LGIPMFQQTAYKGQCSFFAVFHPHFVLTLSCVGFFPAMLLFVFFYCDMLKIASMHSQQIRKMEHAGAMAG
GYRSPRTPSDFKALRTVSVLIGSFALSWTPFLITGIVQVACQECHLYLVLERYLWLLGVGNSLLNPLIYA
YWQKEVRLQLYHMALGVKKVLTSFLLFLSARNCGPERPRESSCHIVTISSSEFDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6110_h08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178471

ORF Size: 1005 bp

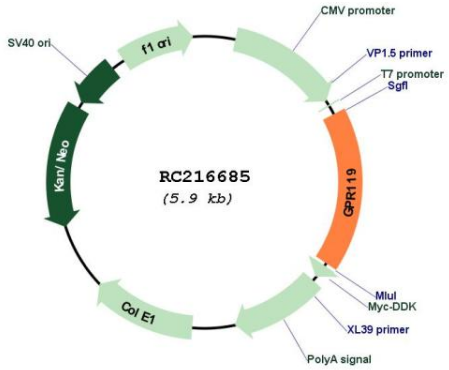
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

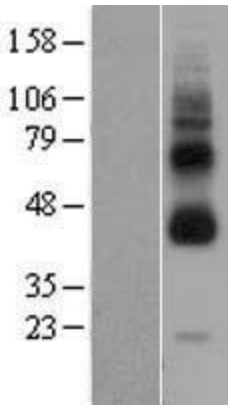
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_178471.2
RefSeq Size:	1008 bp
RefSeq ORF:	1008 bp
Locus ID:	139760
UniProt ID:	Q8TDV5
Cytogenetics:	Xq26.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	36.7 kDa
Gene Summary:	This gene encodes a member of the rhodopsin subfamily of G-protein-coupled receptors that is expressed in the pancreas and gastrointestinal tract. The encoded protein is activated by lipid amides including lysophosphatidylcholine and oleoylethanolamide and may be involved in glucose homeostasis. This protein is a potential drug target in the treatment of type 2 diabetes.[provided by RefSeq, Jan 2010]

Product images:



Circular map for RC216685



Western blot validation of overexpression lysate (Cat# [LY403605]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216685 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).