

## Specifications:

Gene:	mGPR120
Accession:	NP_861413
Insert size:	1098bp
Concentration:	10µg at 0.2µg/µL

## mGPR120/O3FAR1 cDNA Plasmid

### Ffar4 free fatty acid receptor 4 [ *Mus musculus* (house mouse) ]

**Also known as:** GT01; Pgr4;  
Gpr120; Gpr129; O3far1

#### Summary:

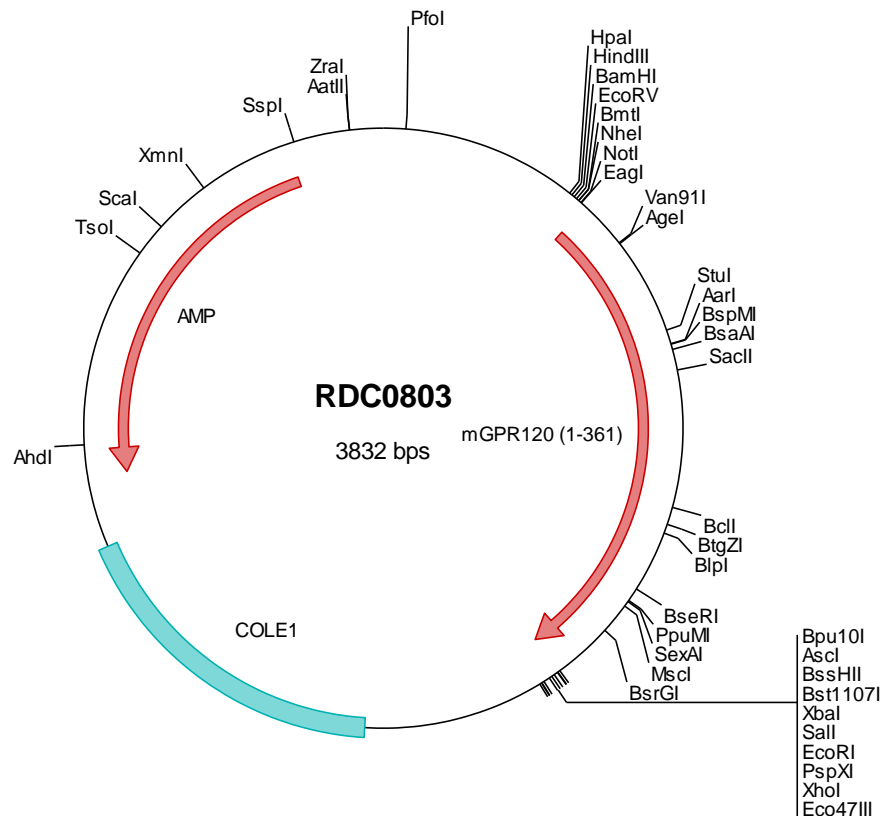
GPR120 (also known as O3FAR1) functions as a receptor for unsaturated long-chain free fatty acids. It controls lipid and glucose metabolism by regulating the secretion of glucagon-like peptide-1 and cholecystokinin. GPR120 regulates adipogenic processes such as adipocyte development and differentiation. Its role as a lipid sensor is important in the control of energy balance.

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC0803 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tegttagcgc ggcgcgccacc atgtcccctg agtgtgcaca gacgacgggc cctggcccct cgcacaccct
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2101 caggcgtttc cccctggaag ctcccctcgt cgtctctcgt ttcgcacct gccgcttacc ggatacctgt ccccttctc cccttccgga agcgtggcgc
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2301 ctatccgggt aactatcgtc ttgagtccaa ccoggtaaaga cacgacttat cgcactggc agcagccact ggtaacagga ttacgagagc gaggtatgta
2401 ggcggtgcta cagagttctt gaagtgtgga cctaactacg gctacactag aaggacagta tttggtatct gcgctctgct gaagccagtt accttcgga
2501 aaagagttgg tagctcttga tccggcaaac aaaccaccgc tggtagcggg ggtttttttg tttgcaagca gcagattacg cgcagaaaaa aaggatctca
2601 agaagatcct ttgatctttt ctacggggtc tgacgctcag tggaaacgaaa actcacgtta agggattttg gtcattgagat tatcaaaaag gatcttcaac
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3801 taaaaatagg cgtatcacga ggccttctg tc

> RDC0803 Translated Insert Sequence

1 mspcaqttg pgshtldqv nrthfppfsd vkgdhrvlvs vvettvlgli fvsllgnvc alvlvarrrr rgataslvl n lfcadllfts aiplvlvrrv
101 teawllgpvv chllfyvmtm sgsvtiltla avslermvci vlrnrglsgp grrtqaalla fiwgysalaa lplcilfrvv pqrllpggdqe ipictldwpm
201 rigeiswdfv fvtlnflvpg lvivisyski lqitkasrkr ltlslayses hqirvsqqdy rlfrtlflm vsffimwspi iitilliliq nfrqdlviwp
301 slffwvvaft fansalnpl ynmslfrnew rkifccfffp ekgaiftmts vrrndslvis s