*m*GPR31B VersaClone cDNA

Catalog Number: RDC0649

Specifications:

Gene:	*m*GPR31B
Accession:	NP_001013854
Insert size:	973bp
Concentration:	10µg at 0.2µg/µL

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

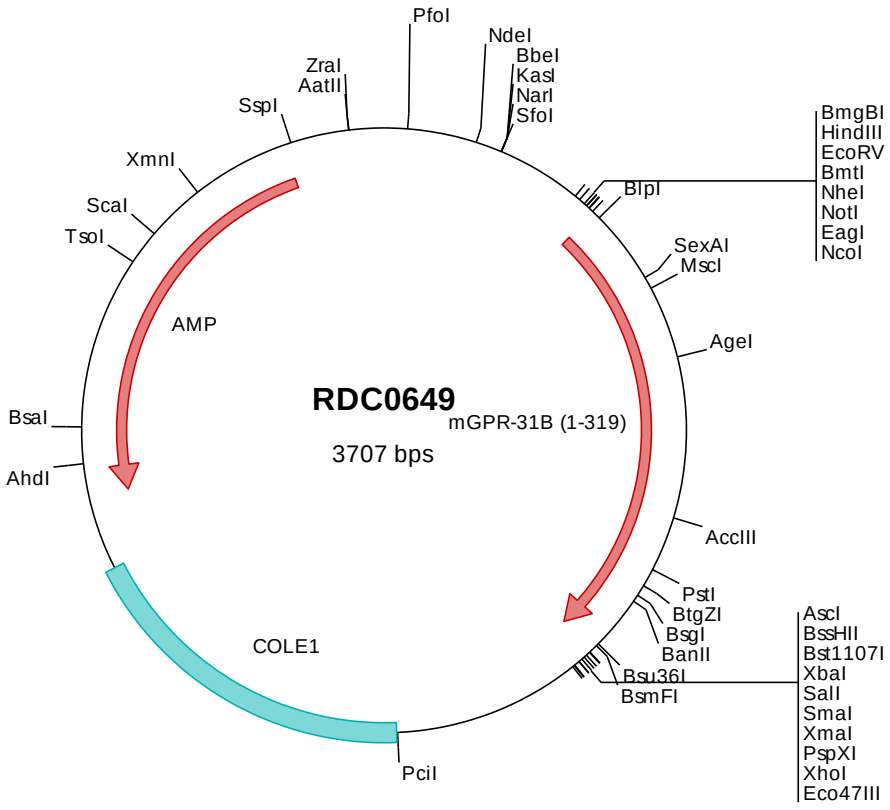
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*GPR31B cDNA Plasmid

Gpr31b G protein-coupled receptor 31, D17Leh66b region [*Mus musculus* (house mouse)]

Also known as: Gpr31; Gpr31c; 12-HETER; GPR31c(t)

Summary:
GPR31 displays high affinity for 12-lipoxygenase-derived product 12-(*S*)-hydroxy-5,8,10,14-eicosatetraenoic acid (12-(*S*)-HETE). Knocking down GPR31 specifically inhibited 12-(*S*)-HETE-stimulated cell invasion. The diverse biological activities mediated by 12-(*S*)-HETE suggest that it functions as a critical signaling molecule in the regulation of physiological processes. 12-(*S*)-HETE/GPR31 binding leads to the activation of ERK1/2, MEK, and NFκB.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0649 Plasmid DNA Sequence

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 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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 501  gggcaccatg ctgacactgg agtgtgtgct gggccttatg ggcaatgctg tggccctctg gaccttcttt taccgtctca aagtatggaa gccttatgct
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 701  acatgccctg ccaagtcctg ctcttcttgc tggcattcag ccgtggtgtg ggagtagcct tcctgacaac agtggcttta gaccggtatc tgcgtgtggt
 801  ccatcctcgg ctcagagtta acttgctgtc tctgagggca gcttggggca tctccagcct catctggctt ctgatggttg ttctcactcc ccaaaacctt
 901  ctcacttgca gaactaccca gaattccacg gaatgcccca gcttctaccc cacaggaggg gccaaggcca ttgccacctg ccaagaggta ctcttcttcc
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2101  tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt gtgcacgaac cccccgttca gcccgaccgc tgcgccttat ccggtaacta tcgtcttgag
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2401  caaacaaacc accgctggta gcggtggttt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat cttttctacg
2501  gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat gagattatca aaaaggatct tcacctagat ccttttaaat taaaaatgaa
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3001  ttcattcagc tccggttccc aacgatcaag gcgagttaca tgatccccca tgttgtgcaa aaaagcggtt agctccttcg gtcctccgat cgttgtcaga
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> RDC0649 Translated Insert Sequence

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 201  irtlqkrlre sdkqprirra rvlvaivlll fglcflpsvl trvlvhifqe fkscsvqqai vrasdiagsl tclhstlspa iycfsnpaft hsyrkvlksl
 301  rgrrkaaesp sdnlrdsys
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