

## Specifications:

Gene:	hGPR31
Accession:	NP_005290
Insert size:	973bp
Concentration:	10µg at 0.2µg/µL

## hGPR31 cDNA Plasmid

### GPR31 G protein-coupled receptor 31 [ *Homo sapiens* ]

**Also known as:** HETER; HETER1; 12-HETER

#### Summary:

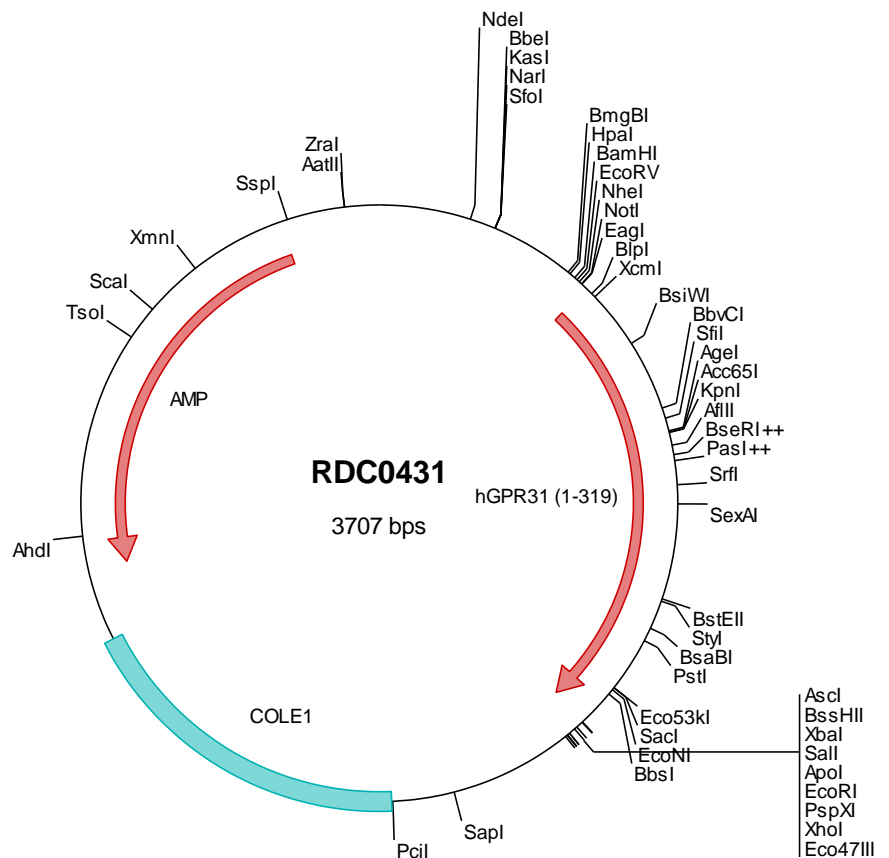
GPR31 is a plasma membrane G protein-coupled receptor (GPCR) that displays high affinity for 12-lipoxygenase-derived product 12-(S)-hydroxy-5,8,10,14-eicosatetraenoic acid (12-(S)-HETE). Knocking down GPR31 specifically inhibited 12-(S)-HETE-stimulated cell invasion. The diverse biological activities 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.

## 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.





### > RDC0431 Plasmid DNA Sequence

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1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggcc tcttcgctat
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3701 tttcgtc

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### > RDC0431 Translated Insert Sequence

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1 mpfpncsaps tvvatavgvl lglecglgll gnavalwtfl frvrwvkpya vyllnlalad lllaacplfl aafylslqaw hlgrvgcwal hfllldlrsrv
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201 iralqkrlre pekqklqra qalvtlvvvl falcfplfcl arvlmhifqn lgscralcav ahtsdvtgsl tylhsvlnpv vycfssptftr ssyrrvfhtl
301 rgkgaaepp dfnprdsys

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