

Specifications:

Gene:	hGPR41
Accession:	NP_005295
Insert size:	1054bp
Concentration:	10µg at 0.2µg/µL

hGPR41 cDNA Plasmid

FFAR3 free fatty acid receptor 3 [*Homo sapiens*]

Also known as: FFA3R; GPR41

Summary:

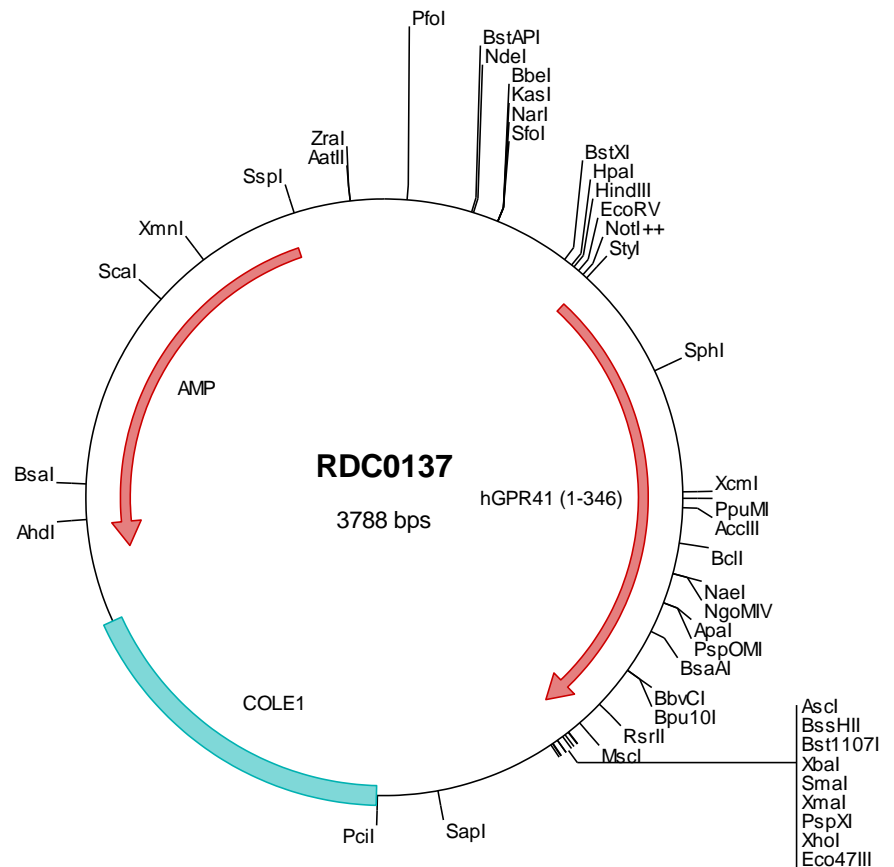
GPR41 and GPR42 are two closely related genes that are part of a cluster of four adjacent G protein-coupled receptors (GPR40, 41, 42, and 43). There are only six nucleotide and amino acid differences between GPR41 and GPR42. GPR41 is a receptor for short chain fatty acids. The rank order of potency for agonists of this receptor is propionate = pentanoate = butyrate > acetate > formate. The activity of this receptor is coupled to the formation of inositol 1,4,5-trisphosphate, intracellular Ca²⁺ mobilization, the activation of ERK 1/2 and inhibition of intracellular cAMP accumulation.

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.





> RDC0137 Plasmid DNA Sequence

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1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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> RDC0137 Translated Insert Sequence

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201 scysrlwvi lgrggshrrq rrvagllaat lnflvcfcp ynvshvgyi cgespawriy vtllstlnc vdpfvyfss sgfqadfhel lrrlclgwlg
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