*h*GPR18 VersaClone cDNA

Catalog Number: RDC0305

Specifications:

Gene:	*h*GPR18
Accession:	NP_005283
Insert size:	1009bp
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

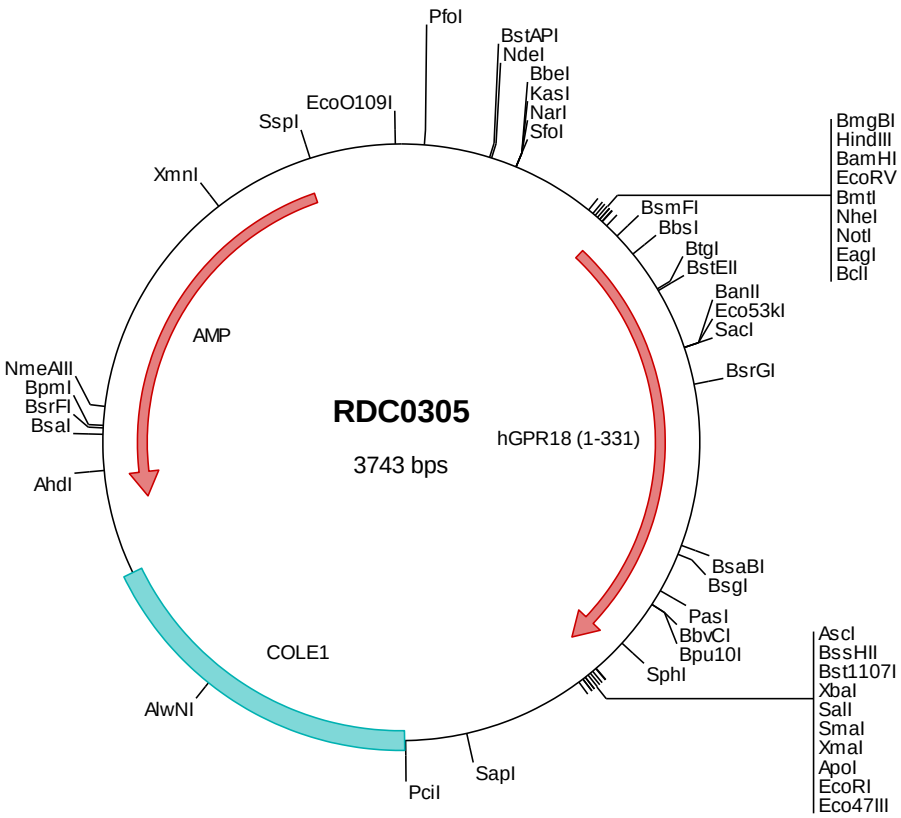
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*GPR18 cDNA Plasmid

GPR18 G protein-coupled receptor 18 [*Homo sapiens*]

Also known as: N-arachidonyl glycine receptor; NAGly receptor

Summary:
GPR18, the most abundantly overexpressed orphan GPCR in all melanoma metastases, is constitutively active and inhibits apoptosis, indicating an important role for GPR18 in tumor cell survival. GPR18 is expressed significantly in lymphoid cell lines, but not in non-lymphoid hematopoietic cell lines. N-arachidonylglycine (NAGly) induces an increase in intracellular Ca(2+) concentration in GPR18-transfected cells. GPR18 may be considered a potential novel anticancer target in metastatic melanoma.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0305 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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 601  accaagaaga gaaccacggt aaccatctat atgatgaatg tggcattagt ggacttgata tttataatga ctttaccctt tcgaatgttt tattatgcaa
 701  aagatgaatg gccatttgga gagtacttct gccagattct tggagctctc acagtgtttt acccaagcat tgctttatgg cttcttgcct ttattagtgc
 801  tgacagatac atggccattg tacagccgaa gtacgccaaa gaacttaaaa acacgtgcaa agccgtgctg gcgtgtgtgg gagtctggat aatgaccctg
 901  accacgacca cccctctgct actgctctat aaagacccag ataaagactc cactcccgcc acctgcctca agatttctga catcatctat ctaaaagctg
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1901  aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac
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> RDC0305 Translated Insert Sequence

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 101  tvfypsialw llafisadry maivqpkyak elkntckavl acvgvwimtl ttttpllllv kdpdkdstpa tclkisdiiy lkavnvlnlt rltffflipl
 201  fimigcylvi ihnllhgrts klkpkvkeks iriiitllvq vlvcfmpfhi cfaflmlgtg ensynpwgaf ttflmnlstc ldvilyyivs kqfqarvisv
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