

Specifications:

Gene:	hPTGER1
Accession:	NP_000946
Insert size:	1222bp
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.

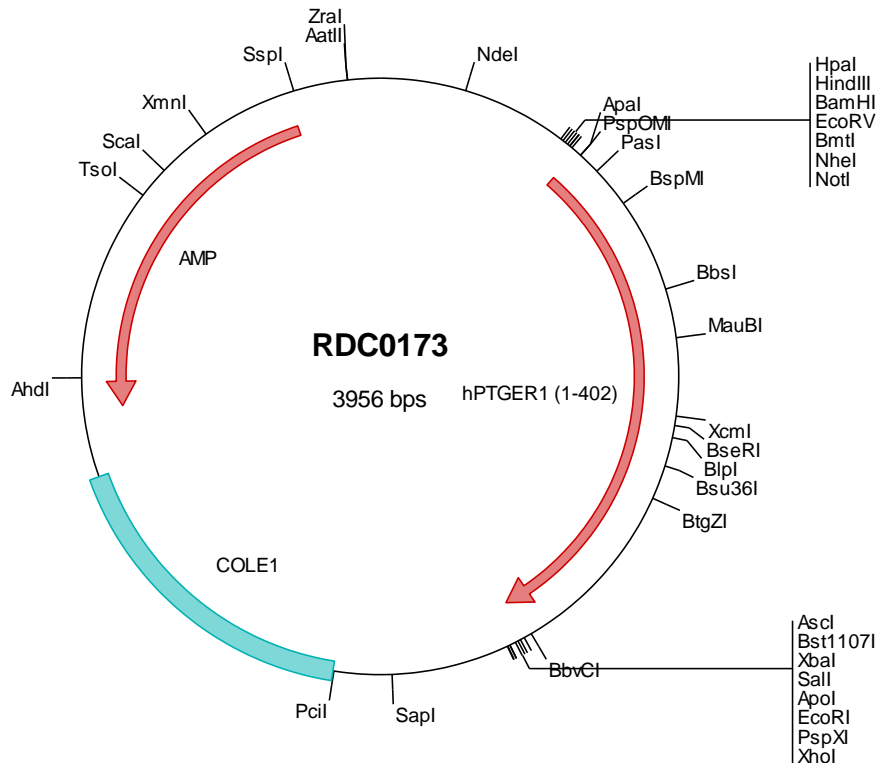
hPTGER1 cDNA Plasmid

PTGER1 prostaglandin E receptor 1 (subtype EP1), 42kDa [*Homo sapiens*]

Also known as: EP1

Summary:

PTGER1 is a member of the G protein-coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). PTGER1 is abundant in kidney. It has a lower level of expression in lung, skeletal muscle, spleen, and testis. It is not detected in liver, brain or heart. Through a phosphatidylinositol-calcium second messenger system, G-Q proteins mediate this receptor's activity. Knockout studies in mice suggested a role of this receptor in mediating algnesia and in regulation of blood pressure. Studies in mice also suggested that this gene may mediate adrenocorticotrophic hormone response to bacterial endotoxin.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0173 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tceggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgcatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcctat
301 tacgccagct ggcgaaagg gtagtgctg caaggcgatt aagtgggta acgcagggt tttccagtc acgactgtt aaaacgacgg ccagtgaatt
401 ggagacgtg taacaagctt gtagccgata tgcgtagcgc ggccgccacc atgagccctt gggggcccct caacctgagc ctggcgggag aggcgaccac
501 atgcgcggcg cctcgggtcc ccaacacgtc ggccgtgccc cgtcggggcg cctcggccc gctgcccato ttctccatga cgtggggcgc cgtgtccaac
601 ctgctggcgc tggcgtgctt ggcgcaggcc gggggcccgc tgcgacgcc cgcctggccc gccaccttc tgctgttctt ggccagcctg ctggccaccg
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2201 aaccgcagc gactataaag ataccaggc tttccccct gaagctccct cgtgctctc cctgttccga ccttgcgct taccggatac ctgtcccct
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2501 aggattagca gagcgggta ttagggcgt gctacagagt tcttgaagt gtggcctaac tacggctaca ctagaaggac agtatttgg atctgcgctc
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2701 tacgcgcaga aaaaaggat ctcaagaaga tctttgatc ttttctacg ggtctgacgc tcagtggaac gaaaactcac gttaaaggat tttggtcatg
2801 agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggctt gacagttacc
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3501 gcccgcgctc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaaacg ttcttgggg cgaaaaactc caaggatctt
3601 accgctgtt agatccagtt cgtatgaacc cactcgtgca cccaactgat cttcagcatc ttttacttcc accagcgttt ctgggtgagc aaaaacagga
3701 agcaaaaatg ccgcaaaaaa gggaaatagg gcgcaacgga aatgtgaat actcactc atattattg aagcatttat caggttattt
3801 gctcctatg cggatacata ttgaaatga tttagaaaaa taaacaaata ggggttccc gcacatttcc ccgaaaagt ccacctgacg tctaagaaac
3901 cattattatc atgacattaa cctataaaaa taggcgtatc acgagccctt tctgct

> RDC0173 Translated Insert Sequence

1 mspcgpnlsls lageattcaa pwpvntsavp psgaspalpi fsmtlgavn lllalallaqa agrlrrrrsa atflfvasl latdlaghvi pgalvrlrlyt
101 agrapaggac hflggcmvff glcplllgcg mavercvgt rpllhaarvs vararalalaa vaavalaval lplarvgrye lqypgtwcfi glgppggwrq
201 allaglifasl glvallaalv cntlsglall rarwrrrrr pppasgpdsr rrwgahgprs asassassia sastffggsr ssgsarrara hdvemvgqlv
301 gimvvcicw spmlvlvala vggwsstslq rplflavrla swnqildpwv yillrqavlr qlrlppra gakggpaglg ltpsaweass lrssrhsgls
401 hf