

### Specifications:

Gene:	hPAR2
Accession:	NP_005233
Insert size:	1207bp
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.

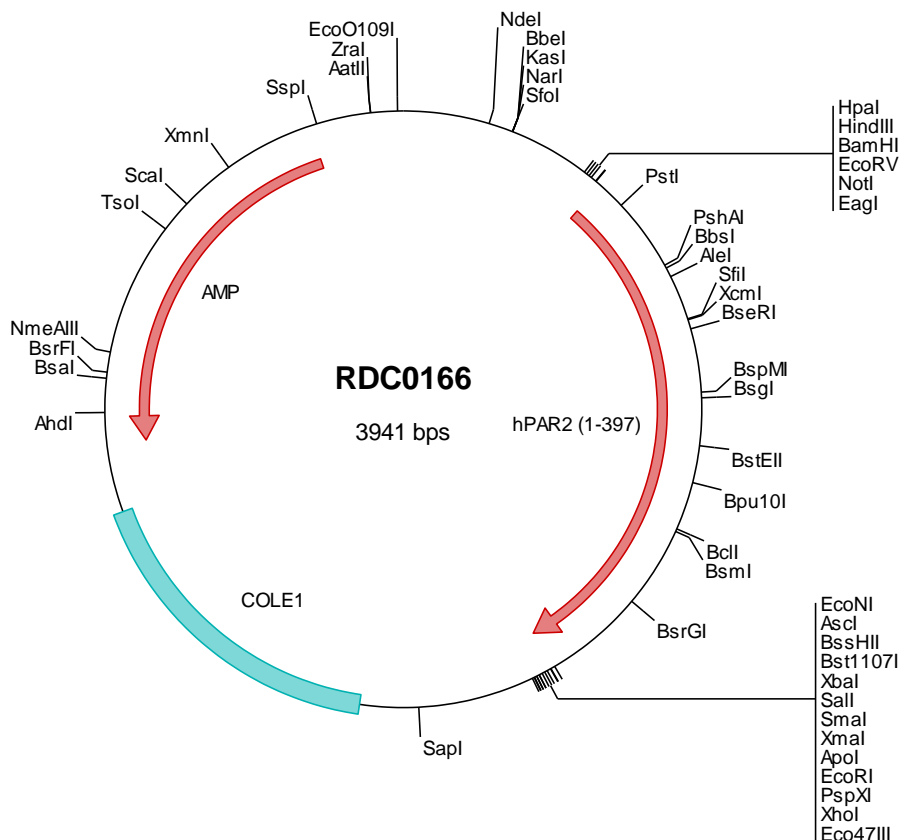
## hPAR2 cDNA Plasmid

**F2RL1 coagulation factor II (thrombin) receptor-like 1 [ *Homo sapiens* ]**

**Also known as:** PAR2; GPR11

### Summary:

Protease-Activated Receptor 2 (PAR2) is a protease activated 7-transmembrane G protein-coupled receptor. PAR2 contains a cleavage site for trypsin, mast cell tryptase or coagulation factor VIIa or Xa, located 11 amino acids C-terminal to the signal sequence. Cleavage creates a tethered ligand that activates the receptor. PAR2 is expressed in kidney, pancreas, stomach, intestine, airway, skin, bladder and brain and is downregulated by ubiquitination, endocytosis and degradation. Activation of PAR2 stimulates release of inflammatory and nociceptive mediators.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0166 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc ggtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccgatc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcctt ggatccgata tcgctagcgc ggccgcacc atgcgaagtc ctagtgtctg gtggctgtct ggggcccoca tctgtctagc
501 agccctctct toctgcaagt gcaccatcca aggaaccaat agatcctcta aaggaagaag ccttattggt aaggttgatg gcacatcccc cgtoactgga
601 aaaggagtta cagttgaaac agtctttctt gtggatgagt tttctgcat tgtctcact ggaaactga ccactgtctt cctccaatt gctacacaa
701 ttgtgtttgt ggtgggtttg ccaagtaacg gcattggcct gtgggtcttt cttttcogaa ctaagaagaa gcaccctgct gtgatttaca tggccaactc
801 ggccctggct gacotctctc ctgtcaatct gttccccttg aagattgcct atcacataca tggcaacaac tggatttatg ggaagctct ttgtaatgtg
901 cttattggct tttctatagg caaatgtac gtttccattc tottcaatgac ctgctcact gtgcagaggt attgggtcat cgtgaacccc atggggcaact
1001 ccaggaaaga ggcaaacatt gccattggca tctccctggc aatattggct ctgattctgc tggtcacat cctttgtat gtcgtgaaag agaccattct
1101 cattctcacc ctgaacatca ccaactgtca tgatgtttg cctgagcagc tcttgggtgg agacatgttc aattaacttc tctctctggc cattggggtc
1201 tttctgttcc cagcctctct caagcctct gctatgtgct tgatgatcag aatgctcgca tcttctgcca tggatgaaaa ctcagagaag aaaaggaaaga
1301 gggccatcaa actcattgtc actgtctctg coactgtacc gatctgtctc actctagta acctctgtct tgtgtgcat tttttctga ttaagagcca
1401 ggccagagc catgtctatg cctgtacat tgtagccctc tgcctcacta cccttaacag ctgcactgac cccttctct attactttgt ttcacatgat
1501 ttcagggatc atgcaaaaga cgtctctctt tgcgcaagtg tccgcaactg aaagcagatg caagtatccc tcaactcaaa gaaacactcc aggaaatcca
1601 gctcttactc ttaagttca accactgtta agaccctcta taaaggcgc gccagtatac tctagagtgc acaccgggg aattcctcga gcgctcgtct
1701 ctagcttggc gtaatcatgg tcatagctgt ttctgtgtg aaattgttat ccgctcacia tccacacaaa catacgagcc ggaagcataa agtgtaaagc
1801 ctgggggtgc taatgagtga gctaaactcac attaattgctg ttgcgctcac tgcccgtctt ccagtgggga aacctgtcgt gccagctgca ttaatgaatc
1901 ggccaacgcg cggggagagg cggtttgctg attggggcct cttccgcttc ctgctcact gactcgtctg gctcggctgt tcggtctcgg cgagcggat
2001 cagctcactc aaaggcggta atacggttat ccacagaatc aggggataac gcaggaaga acatgtgagc aaaaggccag caaaaggcca ggaaccgtaa
2101 aaaggccgcg ttgctgctgt ttttccatag gctcggcccc cctgacgagc atcacaaaaa tcgacgctca agtcagaggt ggcgaaaccc gacaggacta
2201 taaagatacc aggcgtttcc cctggaagc tccctctgtc gctctctctg tccgaccctg ccgcttaccg gatacctgtc cgcctttctc ccttcgggaa
2301 gcgtggcgtc ttctcaatgc tcaocgtgta ggtatctcag ttccgtgtag gtcgtctcgt ccaagctggg ctgtgtgcaac gaacccccg ttcagccccg
2401 ccgctgcgcc ttatccgcta actatcgtct tgagtccaac ccgtaagac acgactatc gccactggca gcagcactg gtaacaggat tagcagagcg
2501 aggtatgtag gcggtgtctc agagttcttg aagtgtggc ctaactacgg ctacactaga aggacagtat ttggtatctg cgtctctgtg aagccagtta
2601 ccttcggaaa aagagttggt agctcttgat ccggcaaaaca aaccaccgct ggtagcgggt gttttttgt ttgcaagcag cagattacgc gcagaaaaa
2701 aggatctcaa gaagatcctt tgatcttttc tacgggtctc gacgctcagt ggaacgaaaa ctcaactgaa gggattttgg tcatgagatt atcaaaaaag
2801 atcttcacct agatcctttt aaatataaaa tgaagtttta aatcaatcta aagtataat gagtaaaact ggtctgacag ttaccaatgc ttaatcagtg
2901 aggcacctat ctcagcgatc tgtctatctt gttcatcact agttgcctga ctccccgtcg ttagataaac tacgatacgg gagggcttac catctggccc
3001 cagtgtctca atgataccgc gagaccacgc ctcaaccgct ccagatttat cagcaataaa ccagccagcc ggaagggccg agcgcagaag tggctctgca
3101 actttatccg cctccatcca gcttattaat tgttgccggg aagctagagt aagtgtctg ccagttaata gtttgcgcaa cgttgtgtgc attgctacag
3201 gcatcgtggt gtcacgctcg tcgtttggtg tggcttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc cccatgttgt gcaaaaaagc
3301 ggttagctcc ttccgctctc cgatcgttgt cagaagtaag ttggcccgag tgttatcact catggttatg gcagcactgc ataattctct tactgtcatg
3401 ccacatcgta gatgcttttc tgtgactggt gactactcaa ccaagtcatt ctgagaatag tgtatgctgc gaccgagttg ctcttggccc gcgtcaatac
3501 gggataatac cgcgccaact agcagaactt taaaagtgc catcattgga aaacgttctt aaacgttctt ctttccacag cgtttctggg tgagcaaaaa cagggaaggca
3601 cagttcagat taaccactc gtcaccccaa ctgactttca gcatctttta ctttccacag cgtttctggg tgagcaaaaa cagggaaggca aaatgcccga
3701 aaaaaggca taagggcgac acggaatgt tgaatactca tactcttctt ttttcaatat tattgaagca tttatcaggg ttattgtctc atgacggat
3801 acataattga atgtatttag aaaaataaac aaataggggt tccgcgcaca tttccccgaa aagtgccacc tgactctaa gaaaccatta ttaacatgac
3901 ataacctat aaaaatagc gatatcagag gccctttctg c

> RDC0166 Translated Insert Sequence

1 mrspsaawll gaailaasl scsqtigqtn rsskgrslig kvdgtshvgt kgvtvetvfs vdefsasvlt gklttvflpi vytivfvvgl psgmalwvf
101 lfrtkkhhpa viymanlala dllsviwlpl kiayhihgnn wiygealcnv ligffynmy csilfmtcls vqrywivnp mghsrkkani aigislaiwl
201 lillvtiplly vvkqtifipa lnittchdvl peqllygdmf nyflslaigv flfpafltas ayvlmirmrlr ssamdensek krkraikliv tvlamylicf
301 tpsnlllvvh yfliksqqqs hvyalylval clstlnscid pfvyyfvshd frdnaknall crsvrtvkqm qvslltskhs rksssyssss ttvktsty