*h*PORCN VersaClone cDNA

Catalog Number: RDC3768

Specifications:

Gene:	*h*PORCN
Accession:	NP_982301.1
Insert size:	1399bp
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

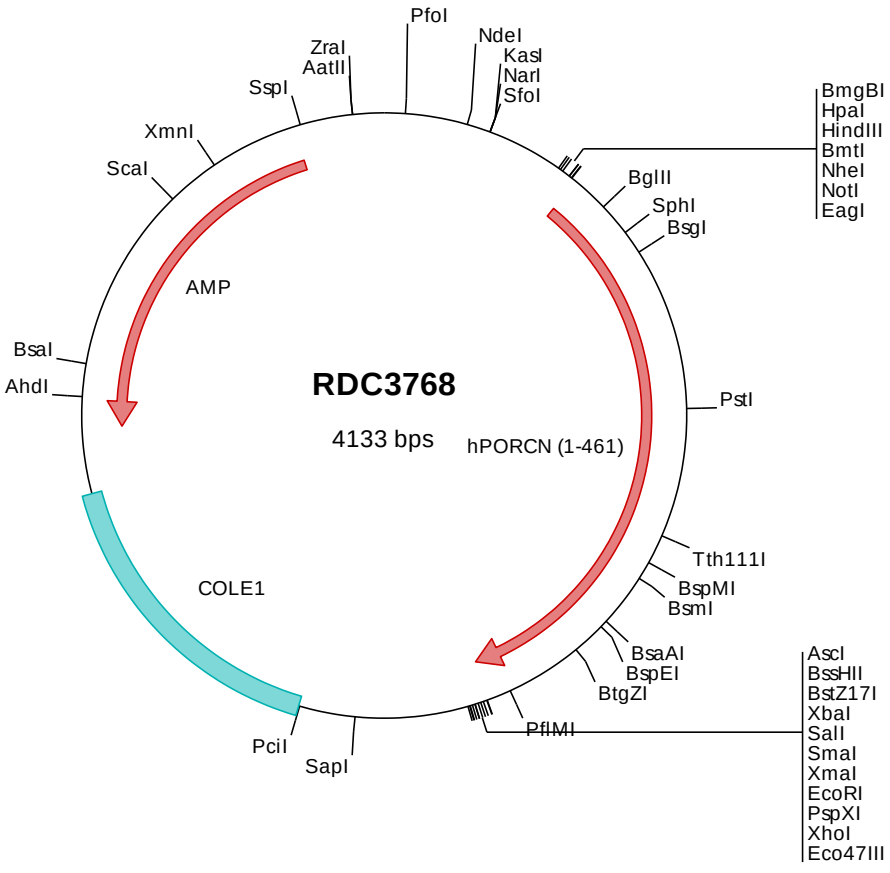
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*PORCN cDNA Plasmid

PORCN porcupine O-acyltransferase [*Homo sapiens* (human)]

Also known as: Ppn; Mg61; porc; Mporc; mMg61; AW045557; DXHXS7465e; 2410004O13Rik

Summary:
PORCN enables Wnt-protein binding activity and palmitoleoyltransferase activity. It is involved in Wnt signaling pathway, protein palmitoleylation, and regulation of postsynaptic membrane neurotransmitter receptor levels. PORCN acts upstream of or within canonical Wnt signaling pathway and glycoprotein metabolic process. It is located in endoplasmic reticulum and glutamatergic synapse. PORCN is an integral component of endoplasmic reticulum membrane. It is part of AMPA glutamate receptor complex and is expressed in several structures, including anterior visceral endoderm, eye, genitourinary system, nervous system, and primitive streak.



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NOT FOR USE IN HUMANS

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R&D SYSTEMS

> RDC3768 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggccacct ttagccgcca ggaatttttc cagcagctac tgcaaggctg
 501  tctcctgcct actgcccagc agggccttga ccagatctgg ctgctccttg ccatctgcct cgcctgccgc ctcctctgga ggctcgggtt gccatcctac
 601  ctgaagcatg caagcaccgt ggcaggcggg ttcttcagcc tctaccactt cttccagctg cacatggttt gggtcgtgct gctcagcctc ctgtgctacc
 701  tcgtgctgtt cctctgccga cattcctccc atcgaggcgt cttcctatcc gtcaccatcc tcatctacct actcatgggt gagatgcaca tggtagacac
 801  cgtgacatgg cacaagatgc gaggggcaca gatgattgtg gccatgaagg cagtgtctct gggcttcgac ctggaccggg gcgaggtggg tacggtgccc
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1401  tttcaagaat gctctccgcc tggggacctt ctcggctgtg ctggtcacct atgcagccag cgccctccta catggcttca gtttccacct ggctgcggtc
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1601  actgttcgca ccagcatcgc ttgggcctgg gggtgcgagc cttaaacttg ctctttggag ctctggccat cttccacctg gcctacctgg gctccctgtt
1701  tgatgtcgat gtggatgaca ccacagagga gcagggctac ggcatggcat acactgtcca caagtggtca gagctcagct gggccagtca ctgggtcact
1801  tttggatgct ggatcttcta ccgtctcata ggctaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt ctctagcttg
1901  gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa gcctggggtg
2001  cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg
2101  cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt atcagctcac
2201  tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg
2301  cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac tataaagata
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2901  aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa ggatcttcac
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3601  aagatgcttt tctgtgactg gtgagtactc aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgctcttgcc cggcgtcaat acgggataat
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3901  aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg atacatattt
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> RDC3768 Translated Insert Sequence

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101  vtiliyllmg emhmvdtvtw hkmrgaqmiv amkavslgfd ldrgevgtvp spvefmgyly fvgtivfgpw isfhsylqav qgrplscrwl qkvarslala
201  llclvlstcv gpylfpyfip lngdrllrnk krkargtmvr wlrayesavs fhfsnyfvgf lseatatlag agfteekdhl ewdltvskpl nvelprsmve
301  vvtswnlpms ywlnnyvfkn alrlgtfsav lvtyaasall hgfsfhlaav llslafityv ehvlrkrlar ilsacvlskr cppdcshqhr lglgvralnl
401  lfgalaifhl aylgslfdvd vddtteeqgy gmaytvhkws elswashwvt fgcwifyrli g
```