

Product datasheet for **RC205717**

PORCN (NM_203473) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PORCN (NM_203473) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PORCN
Synonyms:	DHOF; FODH; MG61; PORC; PPN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205717 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACCTTTAGCCGCCAGGAATTTTCCAGCAGCTACTGCAAGGCTGTCTCCTGCCTACTGCCAGC
 AGGGCCTTGACCAGATCTGGCTGCTCCTTGCCATCTGCCTCGCCTGCCGCTCCTCTGGAGGCTCGGGT
 GCCATCTACCTGAAGCATGCAAGCACCCTGGCAGGCGGGTTCTTCAGCCTCTACCACTTCTCCAGCTG
 CACATGGTTTGGGTCGTGCTGCTCAGCCTCCTGTGCTACCTCGTGTCTTCTCTGCCGACATTCCTCCC
 ATCGAGGCGTCTTCTATCCGTACCATCTCATCTACCTACTCATGGGTGAGATGCACATGGTAGACAC
 CGTGACATGGCACAAGATGCGAGGGGCACAGATGATTGTGGCCATGAAGGCAGTGTCTCTGGGCTTCGAC
 CTGGACCGGGGCGAGGTGGTACGGTGCCTCGCCAGTGGAGTTCATGGGCTACCTCTACTTCGTGGGCA
 CCATCGTCTTCGGGCCCTGGATATCCTTCCACAGCTACCTACAAGCTGTCCAAGGCCGCCACTGAGCTG
 CCGGTGGCTGCAGAAGGTGGCCCGAGCCTGGCACTGGCCCTGCTGTGCCTTGTGTCTGCCACTTGGCTG
 GGCCCTACCTCTCCCGTACTTCATCCCCCTCAACGGTGACCGCTCCTTCGCAACAAGAAACGCAAG
 CCAGGTGGCTGCGAGCCTACGAGAGTGTGTCTCCTTCCACTTACGCAACTATTTTGTGGGCTTTCTTTC
 CGAGGCCACGGCCACGTTGGCGGGGCTGGCTTACCGAGGAGAAGGATCACCTGGAATGGGACCTGACG
 GTGTCCAAGCCACTGAATGTGGAGCTGCCTCGGTCAATGGTGGAAAGTTGTCAAGCTGGAACCTGCCCA
 TGTCTTATTGGCTAAATAACTATGTTTTCAAGAATGCTCTCCGCCTGGGACCTTCTCGGCTGTGCTGGT
 CACCTATGCAGCCAGCGCCCTCTACATGGCTTCAAGTTCCACCTGGCTGCGGTCTGCTGTCCCTGGCT
 TTTATCACTTACGTGGAGCATGCTCCTCCGAAGCGCCTGGCTCGGATCCTCAGTGCCTGTGTCTTGTCAA
 AGCGGTGCCCGCCAGACTGTTCCGACCAGCATCGCTTGGGCTGGGGGTGCGAGCCTTAACTTGTCTT
 TGGAGCTCTGGCCATCTTCCACCTGGCCTACCTGGGCTCCCTGTTTGTATGTCGATGTGGATGACACCACA
 GAGGAGCAGGGCTACGGCATGGCATACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGG
 TCACTTTTGGATGCTGGATCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205717 protein sequence
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTAQQGLDQIWLIIAICLACRLLWRLGLPSYKHAHVAGGFFSLYHFFQL
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
 LDRGEVGTVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCV
 GPYLPFYFIPLNGDRLLRNKKRKARWLRAYESAVSFHFSNYFVGFLEATATLAGAGFTEEKDLEWDLT
 VSKPLNVELPRSMVEVVTWNLPMSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGFSLAHLAALLSLA
 FITYVEHVLKRLARILSACVLSKRCPPDCSHQHRLGLGYRALNLLFGALAIHFLAYLGSFLDVEDDVT
 EEQYGMAYTVHKWSELSWASHWVTFGCWIFYRLIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6574_d11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_203473

ORF Size: 1368 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_203473.3](#)

RefSeq Size: 1891 bp

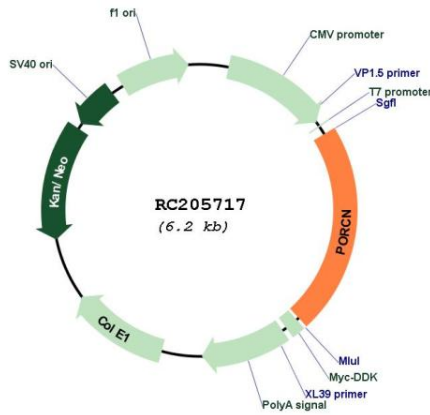
RefSeq ORF: 1371 bp

Locus ID: 64840

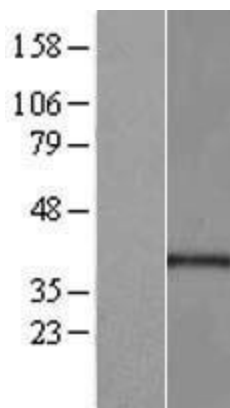
UniProt ID: [Q9H237](#)
 Cytogenetics: Xp11.23
 Protein Families: Transmembrane
 Protein Pathways: Wnt signaling pathway
 MW: 51.8 kDa

Gene Summary: This gene belongs to the evolutionarily conserved porcupine (Porc) gene family. Genes of the porcupine family encode endoplasmic reticulum proteins with multiple transmembrane domains. Porcupine proteins are involved in the processing of Wnt (wingless and int homologue) proteins. Disruption of this gene is associated with focal dermal hypoplasia, and the encoded protein has been implicated in cancer. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC205717



Western blot validation of overexpression lysate (Cat# [LY404284]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205717 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).