

## Product datasheet for RC237849

### PORCN (NM\_001282167) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PORCN (NM_001282167) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PORCN
Synonyms:	DHOF; FODH; MG61; PORC; PPN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237849 representing NM_001282167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTTGGGTCGTGCTGCTCAGCCTCCTGTGCTACCTCGTGCTGTTCTCTGCCGACATTCCTCCCATC  
GAGGCGTCTTCTATCCGTCACCATCCTCATCTACCTACTCATGGGTGAGATGCACATGGTAGACACCGT  
GACATGGCACAAGATGCGAGGGGCACAGATGATTGTGGCCATGAAGGCAGTGTCTCTGGGCTTCGACCTG  
GACCGGGCGAGGTGGGTACGGTGCCCTCGCCAGTGGAGTTCATGGGCTACCTCTACTTCGTGGGACCA  
TCGTCTTCGGGCCCTGGATATCCTTCCACAGCTACCTACAAGCTGTCCAAGGCCGCCACTGAGCTGCCG  
GTGGCTGCAGAAGGTGGCCCGGAGCCTGGCACTGGCCCTGCTGTGCCTTGTGCTGTCCACTTGCCTGGGC  
CCCTACCTCTTCCCGTACTTCAATCCCTCAACGGTGACCGCCTCCTTCGCAAGTGGCTGCGAGCCTACG  
AGAGTGTGTCTCCTTCCACTTCAGCAACTATTTGTGGGCTTTCTTCCGAGGCCACGGCCACGTTGGC  
GGGGCTGGCTTACCGAGGAGAAGGATCACCTGGAATGGGACCTGACGGTGTCCAAGCCACTGAATGTG  
GAGCTGCCTCGGTCAATGGTGAAGTTGTACAAGCTGGAACCTGCCATGTCTTATTGGCTAAATAACT  
ATGTTTTCAAGAATGCTCTCCGCTGGGACCTTCTCGGCTGTGCTGGTCACTATGCAGCCAGCGCCCT  
CCTACATGGCTTACGTTCCACCTGGCTGCGGTCTGCTGTCCCTGGCTTTTATCACTTACGTGGAGCAT  
GTCTCCGGAAGCGCCTGGCTCGGATCCTCAGTGCCTGTGCTTGTCAAAGCGGTGCCCGCCAGACTGTT  
CGCACCAGCATCGCTTGGCCTGGGGTGCAGCCTTAAACTTGTCTTTGGAGCTCTGGCCATCTTCCA  
CCTGGCTACCTGGGCTCCCTGTTTGTGATGTCGATGTGGATGACACCACAGAGGAGCAGGGCTACGGCATG  
GCATACACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGGTCACTTTGGATGCTGGATCT  
TCTACCGTCTCATAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237849 representing NM\_001282167  
 Red=Cloning site Green=Tags(s)

MVWVLLSLLCYLVLFRCRHSRHRGVFLSVTILIIYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFDL  
 DRGEVGTVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCVG  
 PYLFPYFIPLNGDRLLRKWLRAYESAVSFHFSNYFVGFLESEATATLAGAGFTEEKDHLWDLTVSKPLNV  
 ELPRSMVEVVTWNLPMSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGF SFHLAAVLLSLAFITYVEH  
 VLRKRLARILSACVLSKRCPPDCSHQRLGLGVRALNLLFGALAI FHLAYLGS LFDVDVDDTTEEQGYGM  
 AYT VHKWSEL SWASHWTFGCWIF YRLIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

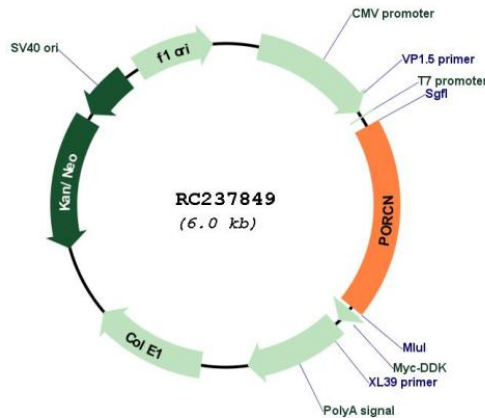
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001282167

<b>ORF Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001282167.2</a>
<b>RefSeq Size:</b>	2018 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	64840
<b>UniProt ID:</b>	<a href="#">Q9H237</a>
<b>Cytogenetics:</b>	Xp11.23
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Wnt signaling pathway
<b>MW:</b>	43.3 kDa
<b>Gene Summary:</b>	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]