

## Product datasheet for **MR226864**

### Porcn (NM\_016913) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Porcn (NM_016913) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Porcn
Synonyms:	2410004O13Rik; AW045557; DXHXS7465e; Mg61; mMg61; Mporc; porc; Ppn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR226864 representing NM\_016913  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCACCTTCAGCCGCCAGGAATTTTCCAGCAGCTACTGCAGGGCTGTCTCCTGCCTACTGTCCAAC  
 AGGGCCTTGACCAGATCTGGCTGCTTCTTACCATCTGCTTCGCCCTGCCGCTCCTTTGGAGGCTGGGGTT  
 ACCGTCTTACCTGAAGCATGCAAGCACCCTGGCAGGTGGCTTCTTCAGCCTCTACCACTTCTCCAGCTG  
 CACATGGTTTGGGTCGTGCTGCTGAGCCTCCTGTGCTACCTCGTGTCTTCTCTGCCGACACTCCTCCC  
 ACCGAGGCGTCTTCTCTCCGTACCATCTCATCTACCTGCTCATGGGTGAGATGCACATGGTGGACAC  
 CGTGACATGGCACAAGATGCGAGGGGCCAGATGATCGTGGCCATGAAGGCGGTGTCTCTGGGCTTCGAC  
 CTGGACCGGGGCGAGGTGGTGCAGTGCCTCACCTGTGGAGTTCATGGGCTACCTCTACTTTGTGGGCA  
 CCATCGTCTTTGGGCCCTGGATATCCTTCCACAGCTACCTACAGGCTGTCCAAGGCCGCCACTGAGCCG  
 CCGATGGCTGAAGAAGGTGGCCCGAGCCTGGCGCTGGCCCTGCTGTGCCTTGTACTGTCCACTTGTGTG  
 GGCCCTACCTCTCCCTACTTTCATCCCCCTCGACGGTGACCGACTCCTTCGCAAGTGGCTACGAGCCT  
 ACGAGAGTGTCTCCTTCCACTTCAGCAACTATTTTGTGGGCTTTCTGTCTGAGGCCACAGCCACATT  
 GGCCGGGGCTGGCTTACGGAGGAGAAGGACCCTGGAATGGGACCTGACAGTCTCTAGACCGTTGAAT  
 GTGGAGCTGCCCCGGTCCATGGTGAAGTTGTCACAAGCTGGAACCTGCCCATGTCTTATTGGTTAATA  
 ATTATGTTTTCAAAAATGCCCTTCGCCTGGGGACCTTCTCTGTGTGCTGGTACCTATGCAGCCAGTGC  
 CCTCTGCATGGCTTCACTTCCACCTGGCTGCTGTGCTGTCCCTGGCATTACACTTATGTGGAA  
 CATGCTCCTCAGAAAGCGCTGGCTCAGATCCTCAGTGCCTGCATCTTGTCAAAGCGTGTCTGCCAGACT  
 GTTCACATCGGCATCGCTTGGGCTGGGGTACGAGCCTTAAACTTGTCTTTGGGGCCCTGGCTATCTT  
 CCACCTGTCTACCTGGGCTCCCTGTTTGTGATGTGGACGACACCACAGAGGAGCAGGGCTACGGC  
 ATGGCATACACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGGTCACCTTTGGATGCTGGA  
 TCTTCTACCGTCTCATAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226864 representing NM\_016913  
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTVQQGLDQIWLTLICFACRLLWRLGLPSYKHAHVAGGFFSLYHFFQL  
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILYLLMGEMHMVDVTWHKMRGAQMIVAMKAVSLGFD  
 LDRGEVAVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSRRWLKKVARSLALALLCLVLSTCV  
 GPYLFPPYFIPLDGRLLRKWL RAYESAVSFHFSNYFVGFLEATATLAGAGFTEEKDHLWDLTVSRPLN  
 VELPRSMVEVVTWNLPMSYWLNNYVFKNALRLGTFSAVLVYAASALLHGF SFHLAAVLLSLAFITYVE  
 HVLRKRLAQILSACILSKRCLPDCSHRHLGLGVRALNLLFGALAI FHL SYLGS LFDVDVDDTTEEQGYG  
 MAYTVHKWSELSWASHWVTFGCWIFYRLIG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9031\\_a11.zip](https://cdn.origene.com/chromatograms/mm9031_a11.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_016913

ORF Size: 1350 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

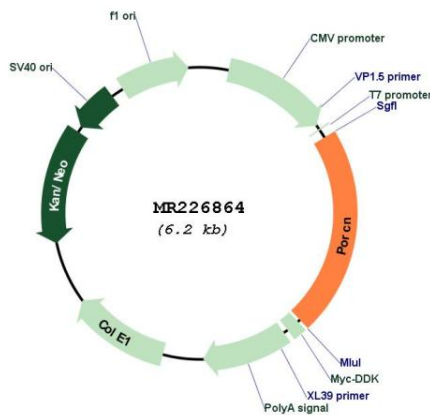
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

RefSeq: [NM\\_016913.4](#)  
 RefSeq Size: 1863 bp  
 RefSeq ORF: 1353 bp  
 Locus ID: 53627  
 UniProt ID: [Q9J1J7](#)  
 Cytogenetics: X 3.7 cM  
 MW: 51.7 kDa

**Gene Summary:** Protein-serine O-palmitoleyltransferase that acts as a key regulator of the Wnt signaling pathway by mediating the attachment of palmitoleate, a 16-carbon monounsaturated fatty acid (C16:1), to Wnt proteins. Serine palmitoleylation of WNT proteins is required for efficient binding to frizzled receptors.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226864