

## Product datasheet for **MC216145**

### Porcn (NM\_023638) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Porcn (NM_023638) Mouse Untagged Clone
Tag:	Tag Free
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)



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**Fully Sequenced ORF:** >MC216145 representing NM\_023638  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCACCTTCAGCCGCCAGGAATTTTCCAGCAGCTACTGCAGGGCTGTCTCCTGCCTACTGTCCAAC  
 AGGGCCTTGACCAGATCTGGCTGCTTCTTACCATCTGCTTCGCCCTGCCGCTCCTTTGGAGGCTGGGGTT  
 ACCGTCTTACCTGAAGCATGCAAGCACCCTGGCAGGTGGCTTCTTCAGCCTCTACCACTTCTCCAGCTG  
 CACATGGTTTGGGTCGTGCTGCTGAGCCTCCTGTGCTACCTCGTGTCTTCTCCTGCCGACACTCCTCCC  
 ACCGAGGCGTCTTCTCCTCCGTACCATCTCTACCTGCTCATGGGTGAGATGCACATGGTGGACAC  
 CGTGACATGGCACAAGATGCGAGGGGCCAGATGATCGTGGCCATGAAGGCGGTGTCTCTGGGCTTCGAC  
 CTGGACCGGGGCGAGGTGGGTGCAGTGCCTCACCTGTGGAGTTCATGGGCTACCTCTACTTTGTGGGCA  
 CCATCGTCTTTGGGCCCTGGATATCCTTCCACAGCTACCTACAGGCTGTCCAAGGCCGCCACTGAGCCG  
 CCGATGGCTGAAGAAGGTGGCCCGAGCCTGGCGCTGGCCCTGCTGTGCCTTGTACTGTCCACTTGTGTG  
 GGCCCTACCTCTCCCTACTTTCATCCCTCGACGGTGACCGACTCCTTCGCAACAAGAAACGCAAAAG  
 CCAGGGGCACCATGGTAAGGTGGCTACGAGCCTACGAGAGTGTGTCTCCTTCCACTTCAGCAACTATTT  
 TGTGGGCTTTCTGTCTGAGGCCACAGCCACATTGGCCGGGGCTGGCTTACGGGAGGAGAAGGACCACCTG  
 GAATGGGACCTGACAGTCTTAGACCGTTGAATGTGGAGCTGCCCGGTCCATGGTGAAGTTGTCAAA  
 GCTGGAACCTGCCATGTCTTATTGGTTAAATAATTATGTTTTCAAAAATGCCCTTCGCCTGGGGACCTT  
 CTCTGTGTGCTGGTACCTATGCAGCCAGTGCCTCCTGCATGGCTTCAAGTTCCACCTGGCTGCTGTG  
 CTGCTGTCCCTGGCATTCACTTATGTGGAACATGTCTCAGAAAGCGCCTGGCTCAGATCCTCAGTG  
 CTTAAACTTGCTCTTTGGGGCCCTGGCTATCTTCCACCTGTCTACCTGGGCTCCCTGTTTGTATGTCGAT  
 GTGGACGACACCAGAGGAGCAGGGCTACGGCATGGCATACTGTCCCAAGTGGTGCAGAGCTCAGCT  
 GGGCCAGTCACTGGTCACTTTTGGATGCTGGATCTTCTACCGTCTCATAGGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1851\\_f01.zip](https://cdn.origene.com/chromatograms/ja1851_f01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_023638

**Insert Size:** 1386 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](#)

<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>	<u><a href="#">NM_023638.3</a></u> , <u><a href="#">NP_076127.1</a></u>
<b>RefSeq Size:</b>	1896 bp
<b>RefSeq ORF:</b>	1386 bp
<b>Locus ID:</b>	53627
<b>UniProt ID:</b>	<u><a href="#">Q9J1J7</a></u>
<b>Cytogenetics:</b>	X 3.7 cM
<b>Gene Summary:</b>	<p>Protein-serine O-palmitoleoyltransferase 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]</p> <p>Transcript Variant: This variant (d) contains two alternate in-frame exons compared to variant a. The encoded isoform (D) is longer than isoform A.</p>