

Product datasheet for **MR207266**

Porcn (NM_145907) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Porcn (NM_145907) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Porcn
Synonyms:	2410004O13Rik; AW045557; DXHXS7465e; Mg61; mMg61; Mporc; porc; Ppn
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR207266 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCTTCAGCCGCCAGGAATTTTCCAGCAGCTACTGCAGGGCTGTCTCCTGCCTACTGTCCAAC
 AGGGCCTTGACCAGATCTGGCTGCTTCTTACCATCTGCTTCGCCCTGCCGCTCCTTTGGAGGCTGGGGTT
 ACCGTCTTACCTGAAGCATGCAAGCACCCTGGCAGGTGGCTTCTTCAGCCTCTACCACTTCTCCAGCTG
 CACATGGTTTGGGTCGTGCTGCTGAGCCTCCTGTGCTACCTCGTGTCTTCTCTGCCGACACTCCTCCC
 ACCGAGGCGTCTTCTCTCCGTACCATCTCATCTACCTGCTCATGGGTGAGATGCACATGGTGGACAC
 CGTGACATGGCACAAGATGCGAGGGGCCAGATGATCGTGGCCATGAAGGCGGTGTCTCTGGGCTTCGAC
 CTGGACCGGGGCGAGGTGGGTGCAGTGCCTCACCTGTGGAGTTCATGGGCTACCTCTACTTTGTGGCA
 CCATCGTCTTTGGGCCCTGGATATCCTTCCACAGCTACCTACAGGCTGTCCAAGGCCGCCACTGAGCCG
 CCGATGGCTGAAGAAGGTGGCCCGAGCCTGGCGCTGGCCCTGCTGTGCCTTGTACTGTCCACTTGTGTG
 GGCCCTACCTCTCCCTACTTTCATCCCCCTCGACGGTGACCGACTCCTTCGCAAGGGCACCATGGTAA
 GGTGGCTACGAGCCTACGAGAGTGTGTCTCTCCACTTCAGCAACTATTTTGTGGGCTTCTGTCTGA
 GGCCACAGCCACATTGGCCGGGGCTGGCTTACGGAGGAGAAGGACCACCTGGAATGGGACCTGACAGTC
 TCTAGACCGTTGAATGTGGAGCTGCCCCGGTCCATGGTGAAGTTGTCAAGCTGGAACCTGCCCATGT
 CTTATTGGTTAAATAATTATGTTTTCAAAAATGCCCTTCGCTGGGGACCTTCTCTGTGTGTGGTCCAC
 CTATGCAGCCAGTGCCCTCCTGCATGGCTTCACTTCCACCTGGCTGTGTGTGTGTGTGTGTGTGTGTGT
 ATCACTTATGTGGAACATGTCTCAGAAAGCGCCTGGCTCAGATCCTCAGTGCCTGCATCTTGTCAAAGC
 GTTGTCTGCCAGACTGTTACATCGGCATCGCTTGGCCCTGGGGTACGAGCCTTAAACTTGTCTTTTGG
 GGCCCTGGCTATCTTCCACCTGTCTACCTGGGCTCCCTGTTTGTATGTCGATGTGGACGACACCACAGAG
 GAGCAGGGCTACGGCATGGCATACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGGTCA
 CTTTTGGATGCTGGATCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207266 protein sequence
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTVQQLDQIWLILLTICFACRLLWRLGLPSYLKHAHVAGGFFSLYHFFQL
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
 LDRGEVGA VSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSRRWLKKVARSLALALLCLVSTCV
 GPYLPFYFIPLDGDRLLRKGTMRWLRAYESAVSFHFSNYFVGFLESEATLAGAGFTEEKDHLWDLTV
 SRPLNVELPRSMVEVVTWNLPMSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGFHFLAALLSLAF
 IITYVEHVRKRLAQILSACILSKRCLPDCSHRHLGLGVRALNLLFGALAIHFLSYLGSFLFDVDDVDTTE
 EQGYGMAYTVHKWSELSWASHWVTFGCWIFYRLIG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

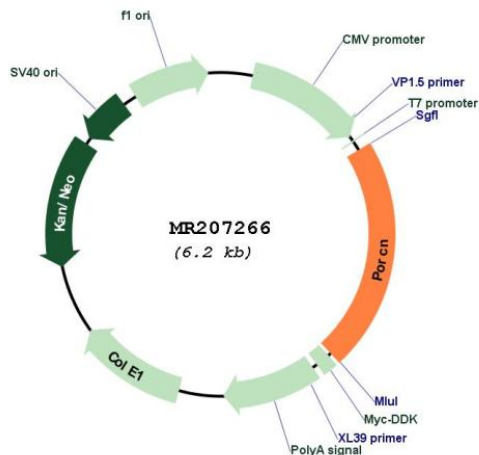
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_145907

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.

RefSeq: [NM_145907.4](#), [NP_665914.1](#)

RefSeq Size: 1878 bp

RefSeq ORF: 1368 bp

Locus ID: 53627

UniProt ID: [Q9J1J7](#)

Cytogenetics: X 3.7 cM

MW: 51.8 kDa

Gene Summary: 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]