

Product datasheet for **MR227550**

Porcn (NM_145908) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Porcn (NM_145908) 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:

>MR227550 representing NM_145908
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACCTTCAGCCGCCAGGAATTTTCCAGCAGCTACTGCAGGGCTGTCTCCTGCCTACTGTCCAAC
 AGGGCCTTGACCAGATCTGGCTGCTTCTTACCATCTGCTTCGCCCTGCCGCTCCTTTGGAGGCTGGGGTT
 ACCGTCTTACCTGAAGCATGCAAGCACCGTGGCAGGTGGCTTCTTCAGCCTCTACCACTTCTCCAGCTG
 CACATGGTTTGGGTCGTGCTGCTGAGCCTCCTGTGCTACCTCGTGTCTTCTCTGCCGACACTCCTCCC
 ACCGAGGCGTCTTCTCTCCGTACCATCTCATCTACCTGCTCATGGGTGAGATGCACATGGTGGACAC
 CGTGACATGGCACAAGATGCGAGGGGCCAGATGATCGTGGCCATGAAGGCGGTGTCTCTGGGCTTCGAC
 CTGGACCGGGGCGAGGTGGTGCAGTGCCTCACCTGTGGAGTTCATGGGCTACCTCTACTTTGTGGGCA
 CCATCGTCTTTGGGCCCTGGATATCCTTCCACAGCTACCTACAGGCTGTCCAAGGCCGCCACTGAGCCG
 CCGATGGCTGAAGAAGGTGGCCCGAGCCTGGCGCTGGCCCTGCTGTGCCTTGTACTGTCCACTTGTGTG
 GGCCCTACCTCTTCCCTACTTTCATCCCCCTCGACGGTGACCGACTCCTTCGCAACAAGAAACGCAAG
 CCAGGTGGCTACGAGCCTACGAGAGTGCTGTCTCCTTCCACTTCAGCAACTATTTTGTGGGCTTTCTGTC
 TGAGGCCACAGCCACATTGGCCGGGCTGGCTTACGGAGGAGAAGGACCACCTGGAATGGGACCTGACA
 GTCTCTAGACCGTTGAATGTGGAGCTGCCCCGGTCCATGGTGGAAAGTTGTCAAGCTGGAACCTGCCCA
 TGTCTTATTGGTTAAATAATTATGTTTTCAAAAATGCCCTTCGCCTGGGGACCTTCTCTGCTGTGCTGGT
 CACCTATGCAGCCAGTGCCTCCTGCATGGCTTCAAGTTCCACCTGGCTGCTGTGCTGTGCTCCCTGGCA
 TTCATCACTTATGTGGAACATGTCTCAGAAAGCGCCTGGCTCAGATCCTCAGTGCCTGCATCTTGTCAA
 AGCGTTGTCTGCCAGACTGTTACATCGGCATCGCTTGGGCTGGGGGTACGAGCCTTAAACTTGTCTT
 TGGGGCCCTGGCTATCTTCCACCTGTCTACCTGGGCTCCCTGTTTGTATGTCGATGTGGACGACACCACA
 GAGGAGCAGGGCTACGGCATGGCATACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGG
 TCACTTTTGGATGCTGGATCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227550 representing NM_145908
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTVQQGLDQIWL L L TICFACRLLWRLGLPSYLKHASTVAGGFFSLYHFFQL
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTIL IYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
 LDRGEVGA V P S P V E F M G Y L Y F V G T I V F G P W I S F H S Y L Q A V Q G R P L S R R W L K K V A R S L A L L C L V L S T C V
 G P Y L F P Y F I P L D G D R L L R N K K R K A R W L R A Y E S A V S F H S N Y F V G F L S E A T A T L A G A G F T E E K D H L E W D L T
 V S R P L N V E L P R S M V E V T S W N L P M S Y W L N N Y V F K N A L R L G T F S A V L V T Y A A S A L L H G F S F H L A A V L L S L A
 F I T Y V E H V L R K R L A Q I L S A C I L S K R C L P D C S H R H R L G L G Y R A L N L L F G A L A I F H L S Y L G S L F D V D V D D T T
 E E Q G Y G M A Y T V H K W S E L S W A S H W V T F G C W I F Y R L I G

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_145908

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_145908.4](#), [NP_665915.1](#)

RefSeq Size: 1881 bp

RefSeq ORF: 1371 bp

Locus ID: 53627

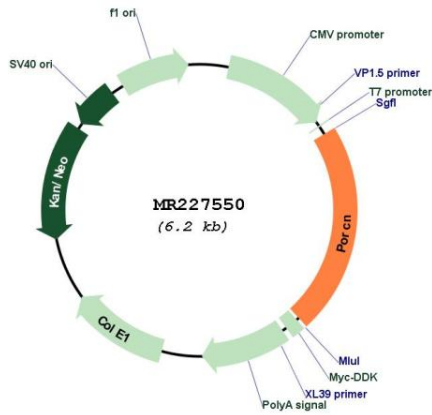
UniProt ID: [Q9J1J7](#)

Cytogenetics: X 3.7 cM

MW: 52.4 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 MR227550