

Product datasheet for **MG226864**

Porcn (NM_016913) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Porcn (NM_016913) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Porcn
Synonyms:	2410004O13Rik; AW045557; DXHXS7465e; Mg61; mMg61; Mporc; porc; Ppn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226864 representing NM_016913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCTTCAGCCGCCAGGAATTTTCCAGCAGCTACTGCAGGGCTGTCTCCTGCCTACTGTCCAAC
 AGGGCCTTGACCAGATCTGGCTGCTTCTTACCATCTGCTTCGCCCTGCCGCTCCTTTGGAGGCTGGGGTT
 ACCGTCTTACCTGAAGCATGCAAGCACCCTGGCAGGTGGCTTCTTCAGCCTCTACCACTTCTCCAGCTG
 CACATGGTTTGGGTCGTGCTGCTGAGCCTCCTGTGCTACCTCGTGTCTTCTCTGCCGACACTCCTCCC
 ACCGAGGCGTCTTCTCTCCGTACCATCTCATCTACCTGCTCATGGGTGAGATGCACATGGTGGACAC
 CGTGACATGGCACAAGATGCGAGGGGCCAGATGATCGTGGCCATGAAGGCGGTGTCTCTGGGCTTCGAC
 CTGGACCGGGGCGAGGTGGTGCAGTGCCTCACCTGTGGAGTTCATGGGCTACCTCTACTTTGTGGGCA
 CCATCGTCTTTGGGCCCTGGATATCCTTCCACAGCTACCTACAGGCTGTCCAAGGCCGCCACTGAGCCG
 CCGATGGCTGAAGAAGGTGGCCCGAGCCTGGCGCTGGCCCTGCTGTGCCTTGTACTGTCCACTTGTGTG
 GGCCCTACCTCTCCCTACTTTCATCCCTCGACGGTGACCGACTCCTTCGCAAGTGGCTACGAGCCT
 ACGAGAGTGTGTCTCCTTCCACTTCAGCAACTATTTTGTGGGCTTTCTGTCTGAGGCCACAGCCACATT
 GGCCGGGGCTGGCTTACGGAGGAGAAGGACCCTGGAATGGGACCTGACAGTCTCTAGACCGTTGAAT
 GTGGAGCTGCCCCGGTCCATGGTGAAGTTGTCACAAGCTGGAACCTGCCCATGTCTTATTGGTTAATA
 ATTATGTTTTCAAAAATGCCCTTCGCCTGGGGACCTTCTCTGTGTGCTGGTACCTATGCAGCCAGTGC
 CCTCTGCATGGCTTCACTTCCACCTGGCTGCTGTGCTGTCCCTGGCATTACACTTATGTGGAA
 CATGCTCCTCAGAAAGCGCTGGCTCAGATCCTCAGTGCCTGCATCTTGTCAAAGCGTTGTCTGCCAGACT
 GTTCACATCGGCATCGCTTGGCCCTGGGGTACGAGCCTTAAACTTGTCTTTGGGGCCCTGGCTATCTT
 CCACCTGTCTACCTGGGCTCCCTGTTTGTATGTCGATGTGGACGACACCACAGAGGAGCAGGGCTACGGC
 ATGGCATACACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGGTCACCTTTGGATGCTGGA
 TCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226864 representing NM_016913
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTVQQGLDQIWLILLICFACRLLWRLGLPSYKHAHVAGGFFSLYHFFQL
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILIIYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
 LDRGEVAVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSRRWLKKVARSLALALLCLVLSTCV
 GPYLPFYFIPLDGDRLLRKWLRAYESAVSFHFSNYFVGFLSEATATLAGAGFTEEKDHLEWDLTVSRPLN
 VELPRSMVEVVTWNLPMSYWLNNYVFNALRLGTFSAVLVTYAAASALLHGFHFHLAAVLLSLAFITYVE
 HVLKRLAQILSACILSKRCLPDCSHRHLGLGVRALNLLFGALAFHLSYLSLFDVVDVDDTTEEQGYG
 MAYTVHKWSELSWASHWVTFGCWIFYRLIG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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 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).

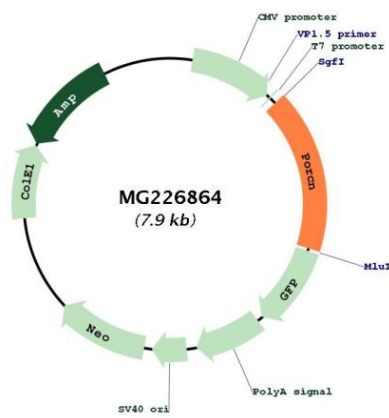
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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: [Q9J117](#)
 Cytogenetics: X 3.7 cM

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 MG226864