

Product datasheet for **RG223490**

PORCN (NM_022825) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PORCN (NM_022825) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PORCN
Synonyms:	DHOF; FODH; MG61; 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:

>RG223490 representing NM_022825
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCTTTAGCCGCCAGGAATTTTCCAGCAGCTACTGCAAGGCTGTCTCCTGCCTACTGCCAGC
 AGGGCCTTGACCAGATCTGGCTGCTCCTTGCCATCTGCCTCGCCTGCCGCTCCTCTGGAGGCTCGGGT
 GCCATCTACCTGAAGCATGCAAGCACCCTGGCAGGCGGGTTCTTCAGCCTCTACCACTTCTCCAGCTG
 CACATGGTTTGGGTCTGCTGCTCAGCCTCCTGTGCTACCTCGTCTGTTCTCTGCCGACATTCCTCCC
 ATCGAGGCGTCTTCTATCCGTACCATCTCATCTACCTACTCATGGGTGAGATGCACATGGTAGACAC
 CGTGACATGGCACAAGATGCGAGGGGCACAGATGATTGTGGCCATGAAGGCAGTGTCTCTGGGCTTCGAC
 CTGGACCGGGGCGAGGTGGGTACGGTGCCTCGCCAGTGGAGTTCATGGGCTACCTCTACTTCGTGGCA
 CCATCGTCTTCGGGCCCTGGATATCCTTCCACAGCTACCTACAAGCTGTCCAAGGCCGCCACTGAGCTG
 CCGGTGGCTGCAGAAGGTGGCCGAGCCTGGCACTGGCCCTGCTGTGCCTTGTGCTGTCCACTTGGCTG
 GGCCCTACCTCTCCCGTACTTCATCCCCCTCAACGGTGACCGCTCCTTCGCAAGTGGCTGCGAGCCT
 ACGAGAGTGTCTCCTTCCACTTCAGCAACTATTTTGTGGGCTTTCTTCCGAGGCCACGGCCACGTT
 GGCGGGGCTGGCTTTACCGAGGAGAAGGATCACCTGGAATGGGACCTGACGGTGTCCAAGCCACTGAAT
 GTGGAGCTGCCTCGGTCAATGGTGAAGTTGTCACAAGCTGGAACCTGCCATGTCTTATTGGCTAATA
 ACTATGTTTTCAAGAATGCTCTCCGCTGGGGACCTTCTCGGCTGTGCTGGTCACTATGACGCCAGCGC
 CCTCTACATGGCTTCACTTCCACCTGGCTGCGGTCTGCTGTCCCTGGCTTTTATCACTTACGTGGAG
 CATGCTCCTCCGAAGCGCTGGCTCGGATCCTCAGTGCCTGTGCTTGTCAAAGCGGTGCCGCCAGACT
 GTTCGCACCAGCATCGCTTGGGCTGGGGTGGCAGCCTTAAACTTGTCTTTGGAGCTCTGGCCATCTT
 CCACCTGGCCTACCTGGGCTCCCTGTTTGTATGTCGATGTGGATGACACCACAGAGGAGCAGGGCTACGGC
 ATGGCATACACTGTCCACAAGTGGTCCAGAGCTCAGCTGGGCCAGTCACTGGGTCACCTTTGGATGCTGGA
 TCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223490 representing NM_022825
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTAQQLDQIWLIIICLACRLLWRLGLPSYKHAHVAGGFFSLYHFFQL
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILIIYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
 LDRGEVGTVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCV
 GPYLPFYFIPLNGDRLLRKWL RAYESAVSFHFSNYFVGFLSEATATLAGAGFTEEKDHLEWDLTVSKPLN
 VELPRSMVEVVTWNLPMSYWLNNYVFKNALRLGTFSAVLVTYASALLHGF SFHLAAVLLSLAFITYVE
 HVLKRLARILSACVLSKRCPPDCSHQRLGLGVRALNLLFGALAI FHLAYLGS LFDVVDVDDTTEEQGYG
 MAYTVHKWSELSWASHWTFGCWIFYRLIG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_022825

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.

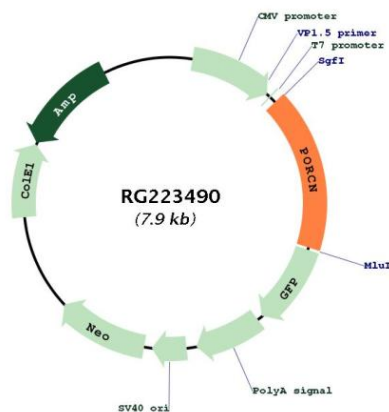
RefSeq: [NM_022825.4](#)

RefSeq Size: 1849 bp
 RefSeq ORF: 1353 bp
 Locus ID: 64840
 UniProt ID: [Q9H237](#)
 Cytogenetics: Xp11.23
 Domains: MBOAT

Protein Families: Transmembrane
 Protein Pathways: Wnt signaling pathway

Gene Summary: This gene belongs to the evolutionarily conserved porcupine (Porc) gene family. Genes of the porcupine family encode endoplasmic reticulum proteins with multiple transmembrane domains. Porcupine proteins are involved in the processing of Wnt (wingless and int homologue) proteins. Disruption of this gene is associated with focal dermal hypoplasia, and the encoded protein has been implicated in cancer. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG223490