

Product datasheet for **RG223707**

PORCN (NM_203474) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | PORCN (NM_203474) 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:

>RG223707 representing NM_203474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCACCTTTAGCCGCCAGGAATTTTCCAGCAGCTACTGCAAGGCTGTCTCCTGCCTACTGCCAGC
 AGGGCCTTGACCAGATCTGGCTGCTCCTTGCCATCTGCCTCGCCTGCCGCTCCTCTGGAGGCTCGGGT
 GCCATCTACCTGAAGCATGCAAGCACCCTGGCAGGCGGGTTCTCAGCCTCTACCACTTCTCCAGCTG
 CACATGGTTTGGGTCGTGCTGCTCAGCCTCCTGTGCTACCTCGTGTCTTCTCTGCCGACATTCCTCCC
 ATCGAGGCGTCTTCTATCCGTACCATCTCTACTACTCATGGGTGAGATGCACATGGTAGACAC
 CGTGACATGGCACAAGATGCGAGGGGCACAGATGATTGTGGCCATGAAGGCAGTGTCTCTGGGCTTCGAC
 CTGGACCGGGGCGAGGTGGGTACGGTGCCTCGCCAGTGGAGTTCATGGGCTACCTCTACTTCGTGGGCA
 CCATCGTCTTCGGGCCCTGGATATCCTTCCACAGCTACCTACAAGCTGTCCAAGGCCGCCACTGAGCTG
 CCGGTGGCTGCAGAAGGTGGCCCGAGCCTGGCACTGGCCCTGCTGTGCCTTGTGTCTGCCACTTGGCTG
 GGCCCTACCTCTCCCGTACTTCATCCCCCTCAACGGTGACCGCTCCTTCGCAAGGGCACCATGGTAA
 GGTGGCTGCGAGCCTACGAGAGTGTCTCTCTCCACTTCAGCAACTATTTTGTGGGCTTCTTTCCGA
 GGCCACGGCCACGTTGGCGGGGGCTGGCTTTACCGAGGAGAAGGATCACCTGGAATGGGACCTGACGGTG
 TCCAAGCCACTGAATGTGGAGCTGCCTCGGTCAATGGTGAAGTTGTCAAGCTGGAACCTGCCATGT
 CTTATTGGCTAAATAACTATGTTTTCAAGAATGCTCTCCGCTGGGGACCTTCTCGGCTGTGCTGGTAC
 CTATGCAGCCAGCGCCCTCTACATGGCTTCAGTTCCACCTGGCTGGGCTCCTGCTGTCCCTGGCTTTT
 ATCACTTACGTGGAGCATGTCTCCGGAAGCGCCTGGCTCGGATCCTCAGTGCCTGTGTCTTGTCAAAGC
 GGTGCCCGCCAGACTGTTCCGACCAGCATCGCTTGGCCCTGGGGTGGCAGCCTTAAACTTGTCTTTGG
 AGCTCTGGCCATCTTCCACCTGGCCTACCTGGGCTCCCTGTTTGTATGTCGATGTGGATGACACCACAGAG
 GAGCAGGGCTACGGCATGGCATACACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGGTCA
 CTTTTGGATGCTGGATCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223707 representing NM_203474
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTAQQGLDQIWLLEIACLRLLWRLGLPSYKHAHVAGGFFSLYHFFQL
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
 LDRGEVGTVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCV
 GPYLPYFPIPLNGDRLLRKGTMVRWLRAYESAVSFHFSNYFVGFSEATATLAGAGFTEEKDHLWDLTV
 SKPLNVELPRSMVEVVTWNLPMSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGF SFHLAAVLLSLAF
 ITYVEHVLKRLARILSACVLSKRCPPDCSHQHRLGLGVRALNLLFGALAIIFHLAYLGSFLDVDVDDTTE
 EQGYGMAYTVHKWSELSWASHWTFGCWIFYRLIG

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_203474

ORF Size: 1365 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_203474.1](#), [NP_982300.1](#)

RefSeq Size: 1743 bp

RefSeq ORF: 1368 bp

Locus ID: 64840

UniProt ID: [Q9H237](#)

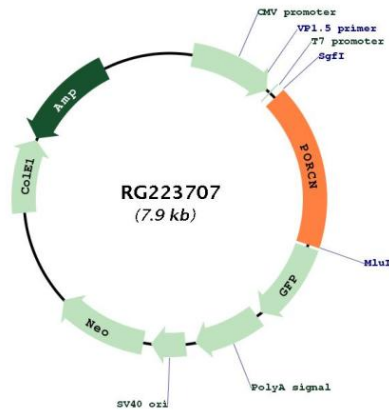
Cytogenetics: Xp11.23

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 RG223707