

## Product datasheet for **RG223764**

### **PORCN (NM\_203475) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PORCN (NM_203475) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG223764 representing NM\_203475  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCACCTTTAGCCGCCAGGAATTTTCCAGCAGCTACTGCAAGGCTGTCTCCTGCCTACTGCCAGC  
 AGGGCCTTGACCAGATCTGGCTGCTCCTTGCCATCTGCCTCGCCTGCCGCTCCTCTGGAGGCTCGGGT  
 GCCATCCTACCTGAAGCATGCAAGCACCCTGGCAGGCGGGTTCTTCAGCCTCTACCACTTCTCCAGCTG  
 CACATGGTTTGGGTCGTGCTGCTCAGCCTCCTGTGCTACCTCGTGTCTCCTCTGCCGACATTCCTCCC  
 ATCGAGGCGTCTTCTATCCGTACCATCTCTACTACTCATGGGTGAGATGCACATGGTAGACAC  
 CGTGACATGGCACAAGATGCGAGGGGCACAGATGATTGTGGCCATGAAGGCAGTGTCTCTGGGCTTCGAC  
 CTGGACCGGGGCGAGGTGGGTACGGTGCCTCGCCAGTGGAGTTCATGGGCTACCTCTACTTCGTGGGCA  
 CCATCGTCTTCGGGCCCTGGATATCCTTCCACAGCTACCTACAAGCTGTCCAAGGCCGCCACTGAGCTG  
 CCGGTGGCTGCAGAAGGTGGCCCGAGCCTGGCACTGGCCCTGCTGTGCCTTGTGTGTCCACTTGGCTG  
 GGCCCTACCTCTCCCGTACTTCATCCCCCTCAACGGTGACCGCTCCTTCGCAACAAGAAACGCAAAAG  
 CCAGGGGCACCATGGTAAGGTGGCTGCGAGCCTACGAGAGTGTGTCTCCTTCCACTTCAGCAACTATTT  
 TGTGGGCTTTCTTCCGAGGCCACGGCCACGTTGGCGGGGCTGGCTTTACCGAGGAGAAGGATCACCTG  
 GAATGGGACCTGACGGTGTCCAAGCCACTGAATGTGGAGCTGCCTCGGTCAATGGTGAAGTTGTCAAA  
 GCTGGAACCTGCCATGTCTTATTGGCTAAATAACTATGTTTTCAAGAATGTCTCCGCCTGGGGACCTT  
 CTCGGCTGTGCTGGTACCTATGCAGCCAGCGCCCTCTACATGGCTTCACTTCCACCTGGCTGCGGTC  
 CTGTGCTCCCTGGCTTTTATCACTTACGTGGAGCATGTCTCCGGAAGCGCCTGGCTCGGATCCTCAGTG  
 CCTGTGTCTTGTCAAAGCGGTGCCCGCCAGACTGTTCCGACCAGCATCGCTTGGGCTGGGGGTGCGGAGC  
 CTTAAACTTGCTCTTTGGAGCTCTGGCCATCTTCCACCTGGCCTACCTGGGCTCCCTGTTTGATGTCGAT  
 GTGGATGACACCAGAGGAGCAGGGCTACGGCATGGCATACTGTCCCAAGTGGTCAGAGCTCAGCT  
 GGGCCAGTCACTGGTCACTTTTGGATGCTGGATCTTCTACCGTCTCATAGGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG223764 representing NM\_203475  
 Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTAQQLDQIWLIIICLACRLLWRLGLPSYLKHAHVAGGFFSLYHFFQL  
 HMVWVLLSLLCYLVFLCRHSSHRGVFLSVTILIIYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD  
 LDRGEVGTVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSCRWLQKVARSLALALLCLVLSTCV  
 GPYLPYFPIPLNGDRLLRNKKRKARGTMVRWLRAYESAVSFHFSNYFVGFSEATATLAGAGFTEEKDHL  
 EWDLTVSKPLNVELPRSMVEVVTWNLPMSYWLNNYVFNALRLGTFSAVLVTYAAASALLHGF SFHLAAV  
 LLSLAFITYVEHVLKRLARILSACVLSKRCPPDCSHQHRLGLGVRALNLLFGALAI FHILAYLGS LFDVD  
 VDDTTEEQGYGMAYTVHKWSEL SWASHWVTFGCWIFYRLIG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_203475

**ORF Size:** 1383 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\\_203475.3](#)

**RefSeq Size:** 1761 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 64840

**UniProt ID:** [Q9H237](#)

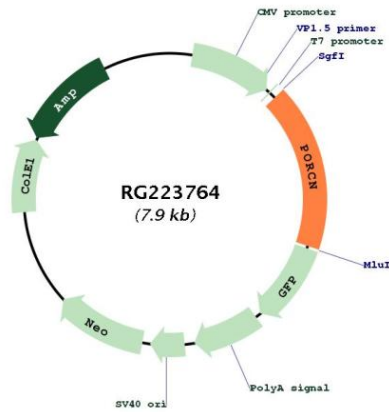
**Cytogenetics:** Xp11.23

**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 RG223764