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Product datasheet for MG227550

Porcn (NM_145908) Mouse Tagged ORF Clone

Product data:

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

View online »

ORF Nucleotide Sequence:

>MG227550 representing NM_145908
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCTTCAGCCGCCAGGAATTTTTCCAGCAGCTACTGCAGGGCTGTCTCCTGCCTACTGTCCAAC
AGGGCCTTGACCAGATCTGGCTGCTTCTTACCATCTGCTTCGCCTGCCGCCTCCTTTGGAGGCTGGGGTT
ACCGTCTTACCTGAAGCATGCAAGCACCGTGGCAGGTGGCTTCTTCAGCCTCTACCACTTCTTCCAGCTG
CACATGGTTTGGGTCGTGCTGCTGAGCCTCCTGTGCTACCTCGTGCTGTTCCTCTGCCGACACTCCTCCC
ACCGAGGCGTCTTCCTCTCCGTCACCATCCTCATCTACCTGCTCATGGGTGAGATGCACATGGTGGACAC
CGTGACATGGCACAAGATGCGAGGGGCCCAGATGATCGTGGCCATGAAGGCGGTGTCTCTGGGCTTCGAC
CTGGACCGGGGCGAGGTGGGTGCAGTGCCCTCACCTGTGGAGTTCATGGGCTACCTCTACTTTGTGGGCA
CCATCGTCTTTGGGCCCTGGATATCCTTCCACAGCTACCTACAGGCTGTCCAAGGCCGCCCACTGAGCCG
CCGATGGCTGAAGAAGGTGGCCCGGAGCCTGGCGCTGGCCCTGCTGTGCCTTGTACTGTCCACTTGTGTG
GGCCCCTACCTCTTCCCCTACTTCATCCCCCTCGACGGTGACCGACTCCTTCGCAACAAGAAACGCAAAG
CCAGGTGGCTACGAGCCTACGAGAGTGCTGTCTCCTTCCACTTCAGCAACTATTTTGTGGGCTTTCTGTC
TGAGGCCACAGCCACATTGGCCGGGGCTGGCTTCACGGAGGAGAAGGACCACCTGGAATGGGACCTGACA
GTCTCTAGACCGTTGAATGTGGAGCTGCCCCGGTCCATGGTGGAAGTTGTCACAAGCTGGAACCTGCCCA
TGTCTTATTGGTTAAATAATTATGTTTTCAAAAATGCCCTTCGCCTGGGGACCTTCTCTGCTGTGCTGGT
CACCTATGCAGCCAGTGCCCTCCTGCATGGCTTCAGTTTCCACCTGGCTGCTGTGCTGCTGTCCCTGGCA
TTCATCACTTATGTGGAACATGTCCTCAGAAAGCGCCTGGCTCAGATCCTCAGTGCCTGCATCTTGTCAA
AGCGTTGTCTGCCAGACTGTTCACATCGGCATCGCTTGGGCCTGGGGGTACGAGCCTTAAACTTGCTCTT
TGGGGCCCTGGCTATCTTCCACCTGTCCTACCTGGGCTCCCTGTTTGATGTCGATGTGGACGACACCACA
GAGGAGCAGGGCTACGGCATGGCATACACTGTCCACAAGTGGTCAGAGCTCAGCTGGGCCAGTCACTGGG
TCACTTTTGGATGCTGGATCTTCTACCGTCTCATAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

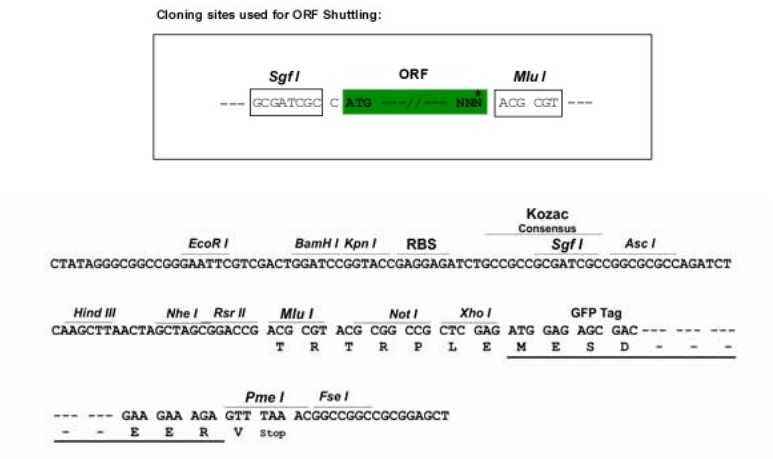
>MG227550 representing NM_145908
Red=Cloning site Green=Tags(s)

MATFSRQEFFQQLLQGCLLPTVQQGLDQIWLLLTICFACRLLWRLGLPSYLKHASTVAGGFFSLYHFFQL
HMVWVVLLSLLCYLVLFLCRHSSHRGVFLSVTILIYLLMGEMHMVDTVTWHKMRGAQMIVAMKAVSLGFD
LDRGEVGAVPSPVEFMGYLYFVGTIVFGPWISFHSYLQAVQGRPLSRRWLKKVARSLALALLCLVLSTCV
GPYLFPYFIPLDGDRLLRNKKRKARWLRAYESAVSFHFSNYFVGFLSEATATLAGAGFTEEKDHLEWDLT
VSRPLNVELPRSMVEVVTSWNLPMSYWLNNYVFKNALRLGTFSAVLVTYAASALLHGFSFHLAAVLLSLA
FITYVEHVLRKRLAQILSACILSKRCLPDCSHRHRLGLGVRALNLLFGALAIFHLSYLGSLFDVDVDDTT
EEQGYGMAYTVHKWSELSWASHWVTFGCWIFYRLIG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

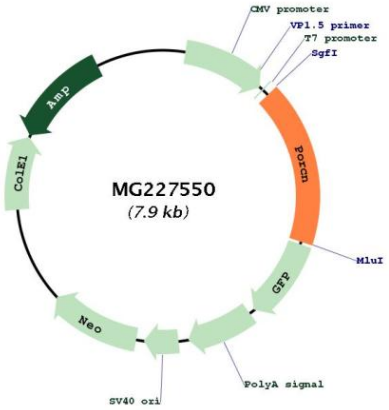
Cloning Scheme:



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:	Q9JIJ7
Cytogenetics:	X 3.7 cM

Gene Summary: Protein-serine O-palmitoleoyltransferase 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 MG227550