

Product datasheet for **RG231292**

PODN (NM_001199082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PODN (NM_001199082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PODN
Synonyms:	PCAN; SLRR5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231292 representing NM_001199082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGGAGCCCGAGCCCGGAGCGCAGCTGAGACTGGGGAGCGCGTTCGGCCTGTGGGGCGCCGCT
 CGGCGCCGGGGCGCAGCAGGTTCCGTCAGCCCTGGCGCCAGGCGCATCTGACTCGGCACCCCTGCAGG
 CACCATGGCCAGAGCCGGGTGCTGCTGCTCCTGCTGCTGCTGCCGCCACAGCTGCACCTGGGACCTGTG
 CTTGCCGTGAGGGCCCCAGGATTTGGCCGAAGTGGCGGCCACAGCCTGAGCCCCGAAGAGAACAATTTG
 CGGAGGAGGAGCCGGTGTGTTACTGAGCCCTGAGGAGCCGGGCTGGCCAGCCGCGGTGAGCTGCC
 CCGAGACTGTGCCTGTTCCAGGAGGGCGTCGTGGACTGTGGCGTATTGACCTGCGTGAGTTCCCGGGG
 GACCTGCCTGAGCACCAACCACCTATCTCTGCAGAACAACAAGCTGGAGAAGATCCCCCGGGGGCCT
 TCAGCGAGCTGAGCAGCCTGCGGAGCTATACCTGCAGAACAACCTACCTGACTGACGAGGGCCTGGACAA
 CGAGACCTTCTGGAAGCTCTCCAGCCTGGAGTACCTGGATCTGTCCAGCAACAACCTGTCTCGGGTCCCA
 GCTGGGCTGCCGCGCAGCCTGGTGTGCTGCACCTGGAGAAGAAGCCATCCGGAGCGTGGACGCGAATG
 TGCTGACCCCATCCGCAGCCTGGAGTACCTGCTGCTGCACAGCAACCAGCTGCGGGAGCAGGGCATCCA
 CCCACTGGCCTTCCAGGGCCTCAAGCGTTGCACACGGTGCACCTGTACAACAACGCGCTGGAGCGCGTG
 CCCAGTGGCCTGCCTCGCCGCGTGCACACCCTCATGATCTGCACAACCAGATCACAGGCATTGGCCGCG
 AAGACTTTGCCACCACCTACTTCTGGAGGAGCTCAACCTCAGCTACAACCGCATACCAGCCCGCAGGT
 GCACCGCAGCGCCTTCCGCAAGCTGCGCCTGCTGCGCTCGCTGGACCTGTGGGCAACCGGCTGCACAGC
 CTGCCACCTGGGCTGCCTCGAAATGTCCATGTGCTGAAGTCAAGCGCAATGAGCTGGCTGCCTTGGCAC
 GAGGGCGCTGGTGGGCATGGCTCAGCTGCGTGAGCTGTACCTACCAGCAACCGACTGCGCAGCCGAGC
 CCTGGGCCCCCGTGCCTGGGTGGACCTCGCCCATCTGCAGCTGCTGGACATCGCCGGGAATCAGTCACA
 GAGATCCCGAGGGGCTCCCGAGTCACTTGAGTACCTGTACCTGCAGAACAACAAGATTAGTGGGTGC
 CCGCAATGCCTTCGACTCCACGCCAACCTCAAGGGGATCTTTCTCAGGTTTAAACAAGCTGGTGTGGG
 CTCCGTGGTGGACAGTGCCTTCCGGAGGCTGAAGCACCTGCAGGTCTTGGACATTGAAGGCAACTTAGAG
 TTTGGTACATTTCCAAGGACCGTGGCCGCTTGGGAAGGAAAAGGAGGAGGAGGAAAGAGGAGGAGGAGG
 AGGAAGAGGAAACAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231292 representing NM_001199082
 Red=Cloning site Green=Tags(s)

MEGARARGAQLRLGERVRPVGRRSAPGRSFRQWPWRPGASDSAPPAGTMAQSRVLLLLLLLLPPQLHLGPV
 LAVRAPGFGRSGHSLSPEENEF AEEEPVLVLSPEEPGPGPAAVS CPRDCACSQEGVVDCGGIDLREFPG
 DLPEHTNHL SLQNNKLEKIPPGAFSELSSLRELYLQNNYLTDEGLDNETFWKLSSEYLDLSSNNLSRVP
 AGLPRSLVLLHLEKNAIRSVDANVLTPIRSLEYLLLHSNQLREQGIHPLAFQGLKRLHTVHLYNNALERV
 PSLGPRRVRTLMLHNQITGIGREDFATTYFLEELNLSYNRITSPQVHRDAFRKLRLLRSLDLSGNRLHT
 LPPGLPRNVHLKVKRNELAAALARGALVGMAQLRELYLTSNRLRSRALGPRAWVDLAHLQLLDIAGNQLT
 EIPEGLPESLEYLYLQNNKISAVPANAFDSTPNLKGIFLRFNKLAVGSVVD SAFRRLKHLQVLDIEGNLE
 FGDISKDRGLGKEKEEEEEEEEEEEETR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001199082

ORF Size: 1557 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_001199082.1](#), [NP_001186011.1](#)

RefSeq Size: 2754 bp

RefSeq ORF: 1560 bp

Locus ID: 127435

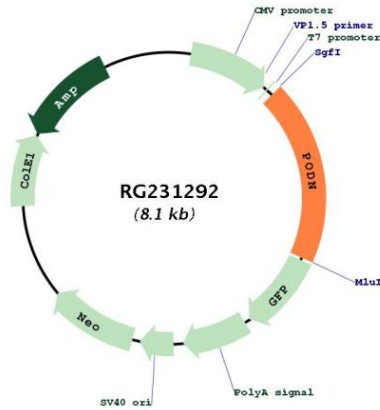
Cytogenetics: 1p32.3

Protein Families: Secreted Protein

Gene Summary:

The protein encoded by this gene is a member of the small leucine-rich repeat protein family and contains an amino terminal CX3CX7C cysteine-rich cluster followed by a leucine-rich repeat domain. Studies suggest that this protein could function to inhibit smooth muscle cell proliferation and migration following arterial injury. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG231292