

Product datasheet for **RG234637**

PODN (NM_001199081) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PODN (NM_001199081) 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:

>RG234637 representing NM_001199081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCGGAGGAGGCAGAACAGCCTGCCTGGTTCCGTCAGCCCTGGCGCCAGGCGCATCTGACTCGG
 CACCCCTGCAGGCACCATGGCCAGAGCCGGGTGCTGCTGCTCCTGCTGCTGCTGCCGCCACAGCTGCA
 CCTGGGACCTGTGCTTGCCTGAGGGCCCCAGGATTTGGCCGAAGTGGCGCCACAGCCTGAGCCCCGAA
 GAGAACGAATTTGCGGAGGAGGACCGGTGCTGGTACTGAGCCCTGAGGAGCCCGGGCTGGCCAGCCG
 CGTGCAGTGCCTGAGACTGTGCTGTTCCAGGAGGGCGTCTGGACTGTGGCGGTATTGACCTGCG
 TGAGTTCCTGGGGACCTGCCTGAGCACACCAACCACCTATCTCTGCAGAAACAACAGCTGGAAAAGATC
 TACCCTGAGGAGCTCTCCCGCTGCACCGGCTGGAGACGCTGAACCTGCAAAAACAACCGCTGACTTCCC
 GAGGGCTCCCAGAGAAGCGTTTGGAGCATCTGACCAACCTCAATTACCTGTACTTGGCCAATAACAAGT
 GACCTTGGCACCCCGCTTCTGCCAAACGCCCTGATCAGTGTGGACTTTGCTGCCAACTATCTACCAAG
 ATCTATGGGCTACCTTTGGCCAGAAGCCAAACTTGAGGTCTGTGTACCTGCACAACAACAGCTGGCAG
 ACGCCGGGCTGCCGGACAACATGTTCAACGGCTCCAGCAACGTCGAGGTCTCATCTGTCCAGCAACTT
 CCTGCGCCACGTGCCAAGCACCTGCCGCTGCCCTGTACAAGCTGCACCTCAAGAACAACAAGCTGGAG
 AAGATCCCCCGGGGCTTTCAGCGAGCTGAGCAGCCTGCGCGAGCTATACCTGCAGAACAACACTACCTGA
 CTGACGAGGGCTGGACAACGAGACCTTCTGGAAGCTCTCCAGCCTGGAGTACCTGGATCTGTCCAGCAA
 CAACCTGTCTCGGTCCCAGTGGGTGCCCGCAGCCTGGTGTGCTGCACTTGGAGAAGAAGCCATC
 CGGAGCGTGGACGCGAATGTGCTGACCCCATCCGAGCCTGGAGTACCTGCTGTCACAGCAACCAGC
 TGGCGGAGCAGGGCATCCACCCACTGGCCTTCCAGGGCCTCAAGCGGTTGCACACGCTGCACTGTACAA
 CAACGCGCTGGAGCGCTGCCAGTGGCCTGCCTCGCCGCGTGGCACCCTCATGATCCTGCACAACCAG
 ATCACAGGCAATTGGCCGGAAGACTTTGCCACCACCTACTTCTGGAGGAGCTCAACCTCAGCTACAACC
 GCATCACAGCCCGCAGGTGCACCGCAGCCTTCCGCAAGCTGCGCCTGCTGCGCTCGCTGGACCTGTC
 GGGCAACCGGCTGCACACGCTGCCACCTGGGCTGCCTCGAAATGTCCATGTGCTGAAGGTCAAGCGCAAT
 GAGCTGGTGCCTTGGCAGGAGGGCGTGGTGGGCATGGCTCAGCTGCGTGAGCTGTACCTCACAGCA
 ACCGACTGCGCAGCCGAGCCCTGGGCCCGCTGCCTGGTGGACCTCGCCATCTGCAGCTGCTGGACAT
 CGCCGGGAATCAGCTCACAGAGATCCCCGAGGGGCTCCCCGAGTCACTTGAGTACCTGTACCTGCAGAAC
 AACAGATTAGTTCGGTCCCAGCAATGCCTTCCACTCCAGCCCAACCTCAAGGGGATCTTCTCAGGT
 TTAACAAGCTGGCTGTGGGCTCCGTGGTGGACAGTGCCTTCCGGAGGCTGAAGCACTGCAGGTCTTGGGA
 CATTGAAGGCACTTAGAGTTTGGTGACATTTCAAGGACCGTGGCCGCTTGGGGAAGGAAAAGGAGGAG
 GAGGAAGAGGAGGAGGAGGAGGAAGAGGAAACAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234637 representing NM_001199081
 Red=Cloning site Green=Tags(s)

MEGEEAEQPAWFRQPWRPGASDSAPPAGTMAQSRVLLLLLLLLPPQLHLGPVLAVRAPGFGRSGHSLSPE
 ENEFAEEEPVLSPEEPGPGPAAVSCPRDCACSQEGVVDGGLDLREFPGDLPEHTNHLSLQNNQLEKI
 YPEELSRLETLNLQNNRLTSRGLPEKAFEHLTNLNYLYLANNKLTAPRFLPNALISVDFAAANYLTK
 IYGLTFGQKPNLRSVYLHNNKLADAGLPDNMFMGSSNVEVLILSSNFLRHVPKHLPPALYKHLKNNKLE
 KIPPGAFSELSSLRELYLQNNYLTDEGLDNETFWKLSLEYLDLSSNNLSRVPAGLPRSLVLLHLEKNAI
 RSV DANVLTPIRSLEYLLHNSQLREQIHLPLAFQGLKRLHTVHLYNNALERVPSGLPRRVRTLMLHNQ
 ITGIGREDFATTYFLEELNLSYNRITSPQVHRDAFRKLRLLRSLDLSGNRLHTLPPGLPRNVHVLKVKRN
 ELAALARGALVGMAQLRELYLTSNRLRSRALGPRAWDLAHLQLLDIAGNQLTEIPEGLPESLEYLYLQN
 NKISAVPANAFDSTPNLKGIFLRFNKLAVGSVVDSAFRRLKHLQVLDIEGNLEFGDISKDRGRLGKEKEE
 EEEEEEEEEETR

TRTRPLE – GFP Tag – V

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:	<ol style="list-style-type: none">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_001199081.2
RefSeq Size:	3075 bp
RefSeq ORF:	1842 bp
Locus ID:	127435
UniProt ID:	Q7Z5L7
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 CX3CXCX7C 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]