

## Product datasheet for **MG209397**

### Podn (NM\_172874) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Podn (NM_172874) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Podn
Synonyms:	9430070G18; 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:**

>MG209397 representing NM\_172874  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGGCAGCAGGGGCTGCCACTCCTACTGCTGGTGTTCAGCTCTTCTGGCCCTGTGCTGCCTG  
 TGAGGGCACCTGTGTTTGGCCGAAGTGACACCCACCCTGAGCCCCGAGGAGAATGAATTTGTGGAGGA  
 AGAGAATCAGCCAGTGTGTTCTGAGCTCCGAGGAGCCAGAGCCTGGCCAGCCACTGTCGACTGTCCC  
 CGAGATTGTGCCTGTTCCAGGAAGGTGTAGTGGACTGTGGTGGCATTGACCTGCGTGAGTTCCAGGCG  
 ACCTGCCCCGAGCACCAACCATCTCTCCTTGCAGAACAACCAGCTGGAGAAGATCTACCCCGAGGAGCT  
 GTCCCGGCTGCAGCGCTGGAGACGCTGAACCTGCAGAACAACCCTGACATCCCGAGGGCTCCCAGAG  
 GAGGCATTTGAGCATCTACTAGCCTCAATTACCTGTACCTGGCCAACAACAAGCTGACACTGGCACCCC  
 GATTCCTGCCAAACGCCCTGATCAGTGTGGACTTTGCTGCCAATTATCTACTAAGATCTATGGACTCAC  
 CTTTGGCCAAAAGCCAAATCTGAGGTCTGTGTACCTGCATAACAACAAGCTAGCAGATGCCGGGCTGCCG  
 GACCACATGTTCAATGGCTCCAGCAACGTGAGATCCTAATCCTGTCCAGCAACTTCTGCGCCAGGTGC  
 CCAAGCACCTGCCACCCGCTCTGTACAAGCTGCACCTCAAGAACAATAAGCTAGAGAAGATCCCCCTGG  
 GGCTTACGTGAGCTGAGCAACCTACGGGAACCTACCTGCAGAACAACCTACCTGACCGACGAGGGTCTG  
 GACAACGAGACCTTCTGGAAGCTGTCCAGCCTGGAGTACCTGGACTTGTCCAGCAACAACCTGTCGAGGG  
 TCCCAGCGGGTCTTCCCGCAGCCTGGTCTGCTGCACCTGGAGAAAAATGCCATCCAGAGCGTAGAAGC  
 TGATGTCTGACCCCATCCGCAACCTGGAGTACCTGTGCTACATAGCAACCAGCTGCAGGCCAAGGGT  
 ATCCACCACCTGGCCTTCCAGGGCCTCAAGAAGCTCCACACAGTGCATCTATAACAACAACCGCTGGAAC  
 GTGTGCCAGCGGCCTGCCCGCAGAGTCCGACCCTCATGATCCTGCACAACCAGATTACAGGCATAGG  
 CCGTGAGGACTTCGCTACCACCTACTTCTGGAAGAGCTCAACCTCAGCTACAACCGCATACCAGCCCA  
 CAGATGCACCGAGATGCCTTCCGCAAGCTACGCTGCTGCGTTCACTTGACTTGTCTGGCAACCGTCTGC  
 AAACACTGCCTCCAGGCCTGCCGAAAAACGTACACGTGCTCAAGGTCAAGCGGAATGAGCTGGTGCCTT  
 GGCACGTGGGGCACTAGCTGGCATGGCCAGCTTCGGGAACCTACCTCACAGGCAACCGACTGCGAAGC  
 CGGGCCCTGGGACCCCGTGCCTGGGTGGACCTTGTGGTCTGCAGCTGCTGGACATCGTGGGAATCAGC  
 TCACAGAGGTCCCTGAGGGGCTCCCCCATCTCTGGAGTATCTGTACCTGCAGAATAACAAGATTAGTGC  
 CGTTCCTGCCAACGCCTTTGACTCCACTCCAACCTTAAGGGGATCTTCTCAGGTTCAACAAGCTGGCT  
 GTGGGCTCCGTGGTGGAAAGCGCCTTCCGAGGGCTGAAACACCTGCAGGCTTGGACATTGAAGGCAACT  
 TTGAGTTTGGTAATGGTTCCAAGGACAAAGATGAGGAAGAGGAAGAAGAGGAGGAAGAGGAAAGATGAGGA  
 AGAGGAAACTAGA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209397 representing NM\_172874  
 Red=Cloning site Green=Tags(s)

MAGSRGLPLLLLVLQLFLGPVLPVRAPVFGSRDPTLSPEENEFVEEENQPVLVLSSEPEPGPATVDCP  
 RDCACSQEGVVDCCGIDLREFPGDLPEHTNHL SLQNNQLEKIYPEEL SRLQRLETNLQNNRLTSRGLPE  
 EAFEHLTSLNYLYLANNKLT LAPRFLPNALISVDF AANYLTKIYGLTFGQKPNLRSVYLHNNKLADAGLP  
 DHMFNGSSNVEILILSSNFLRHVPKHLPPALYKLHLKNNKLEKIPPGAFSELSNLRELYLQNNYL TDEGL  
 DNETFWKLSSELYLDLSSNNLSRVPAGLPRSLVLLHLEKNAIQSVEADVLTPIRNLEYLLLSHNLQAKG  
 IHPLAFQGLKKLHTVHL YNNALERVPSGLPRRVRTLMI LHNQITGIGREDFATTYFLEELNLSYNRITSP  
 QMHRDAFRKLRLLRSLDL SGNRLQTLPPGLPKNVHVLKVKRNEL AALARGALAGMAQLRELYLTGNRLRS  
 RALGPRAWVDLAGLQLLDIAGNQLTEVPEGLPPSLEYLYLQNNKISAVPANAFDSTPNLKGIFLRFNKLA  
 VGSVVESAFRRLKHLQVLDIEGNFEFGNGSKDKDEEEEEEEEEEEEEETR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172874.4</a>
<b>RefSeq Size:</b>	3177 bp
<b>RefSeq ORF:</b>	1836 bp
<b>Locus ID:</b>	242608
<b>UniProt ID:</b>	<a href="#">Q7TQ62</a>
<b>Cytogenetics:</b>	4 C7
<b>Gene Summary:</b>	Negatively regulates cell proliferation and cell migration, especially in smooth muscle cells. [UniProtKB/Swiss-Prot Function]