

## Product datasheet for **MR230671**

### Podn (NM\_001285956) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Podn (NM_001285956) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Podn
Synonyms:	9430070G18; Pcan; SLRR5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230671 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTGGCAGCAGGGCCCTGCCACTCCTACTGCTGGTGTTCAGCTCTTCTGGCCCTGTGCTGCCTG  
 TGAGGGCACCTGTGTTTGGCCGAAGTGACACCCACCCTGAGCCCGAGGAGAATGAATTTGTGGAGGA  
 AGAGAATCAGCCAGTGTGTTCTGAGCTCCGAGGAGCCAGAGCCTGGCCAGCCACTGTCGACTGTCCC  
 CGAGATTGTGCCTGTTCCAGGAAGGTGTAGTGGACTGTGGTGGCATTGACCTGCGTGAGTTCCAGGCG  
 ACCTGCCCCGAGCACCAACCATCTCTCCTTGCAGAACAACAGCTGGAGAAGATCTACCCCGAGGAGCT  
 GTCCCGGCTGCAGCGCTGGAGACGCTGAACCTGCAGAACAACCGCTGACATCCCGAGGGCTCCCAGAG  
 GAGGCATTTGAGCATCTACTAGCCTCAATTACCTGTACCTGGCCAACAACAAGTGACACTGGCACCCC  
 GATTCCTGCCAAACGCCCTGATCAGTGTGGACTTTGCTGCCAATTATCTACTAAGATCTATGGACTCAC  
 CTTTGGCCAAAAGCCAAATCTGAGGTCTGTGTACCTGCATAACAACAAGCTAGCAGATGCCGGGCTGCCG  
 GACCACATGTTCAATGGCTCCAGCAACGTGAGATCCTAATCCTGTCCAGCAACTTCTGCGCCAGGTGC  
 CCAAGCACCTGCCACCCGCTCTGTACAAGCTGCACCTCAAGAACAATAAGCTAGAGAAGATCCCCCTGG  
 GGCTTACGTGAGCTGAGCAACCTACGGGAACCTACCTGCAGAACAACCTACCTGACCGACGAGGGTCTG  
 GACAACGAGACCTTCTGGAAGCTGTCCAGCCTGGAGTACCTGGACTTGTCCAGCAACAACCTGTCGAGGG  
 TCCCAGCGGGTCTTCCCGCAGCCTGGTCTGCTGCACCTGGAGAAAAATGCCATCCAGAGCGTAGAAGC  
 TGATGTCTGACCCCATCCGCAACCTGGAGTACCTGTGCTACATAGCAACAGCTGCAGGCCAAGGGT  
 ATCCACCACCTGGCCTTCCAGGGCCTCAAGAAGCTCCACACAGTGCATCTATAACAACAACCGCTGGAAC  
 GTGTGCCAGCGGCTGCCCGCGAGTGCACCCCTCATGATCCTGCACAACCAGATTACAGGCATAGG  
 CGGTGAGGACTTCGCTACCACCTACTTCTGGAAGAGCTCAACCTCAGCTACAACCGCATCACCAGCCCA  
 CAGATGCACCGAGATGCCTTCCGCAAGCTACGCCTGCTGCGTTCACTTGACTTGTCTGGCAACCGTCTGC  
 AAACACTGCCTCCAGGCCTGCCGAAAAACGTACACGTGCTCAAGGTCAAGCGGAATGAGCTGGTGCCTT  
 GGCACGTGGGGCACTAGCTGGCATGGCCAGCTTCCGGAACCTACCTCACAGGCAACCGACTGCGAAGC  
 CGGGCCCTGGGACCCCGTGCCTGGGTGGACCTTGTGGTCTGCAGCTGCTGGACATCGTGGGAATCAGC  
 TCACAGAGGTCCCTGAGGGGCTCCCCCATCTCTGGAGTATCTGTACCTGCAGAATAACAAGATTAGTGC  
 CGTTCCTGCCAACGCCTTTGACTCCACTCCAACCTTAAGGGGATCTTCTCAGGTTCAACAAGCTGGCT  
 GTGGGCTCCGTGGTGGAAAGCGCCTTCCGAGGGCTGAAACACCTGCAGGCTTGGACATTGAAGGCAACT  
 TTGAGTTTGGTAATGGTCCAAGGACAAAGATGAGGAAGAGGAAGAAGAGGAGGAAGAGGAAAGATGAGGA  
 AGAGGAAACTAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

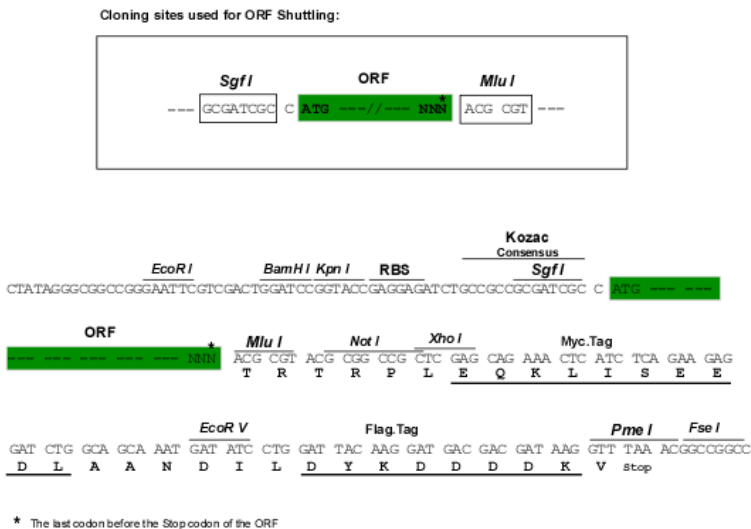
>MR230671 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGSRGLPLLLLVLQLFLGPVLPVRAPVFGSRDPTLSPEENEFVEEENQPVLLSSEPEPGPATVDCP  
 RDCACSQEGVVDGCGIDLREFPGDLPEHTNHL SLQNNQLEKIYPEEL SRLQRLETNLQNNRLTSRGLPE  
 EAFEHLTSLNYLYLANNKLTAPRFLPNALISVDF AANYLTKIYGLTFGQKPNLRSVYLHNNKLADAGLP  
 DHMFMNGSSNVEILILSSNFLRHVPKHLPPALYKLHLKNNKLEKIPPGAFSELSNLR ELYLQNNYL TDEGL  
 DNETFWKLSSLEYLDLSSNNLSRVPAGLPRSLVLLHLEKNAIQSVEADVLTPIRNL EYLLHSNQLQAKG  
 IHPLAFQGLKKLHTVHL YNNALERVPSGLPRRVRTL MILHNQITGIGREDFATTYFLEELNLSYNRITSP  
 QMHRDAFRKLRLLRSLDL SGNRLQTLPPGLPKNVHVLKVKRNEL AALARGALAGMAQLRELYL TGNRLRS  
 RALGPRAWVDLAGLQLLDIAGNQLTEVPEGLPPSLEYLYLQNNKISAVPANAFDSTPNLKGIFLRFNKLA  
 VGSVVESAFRRLKHLQVLDIEGNFEFGNGSKDKDEEEEEEEEEEEEEETR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001285956

ORF Size: 1836 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\\_001285956.2](#)

RefSeq Size: 3262 bp

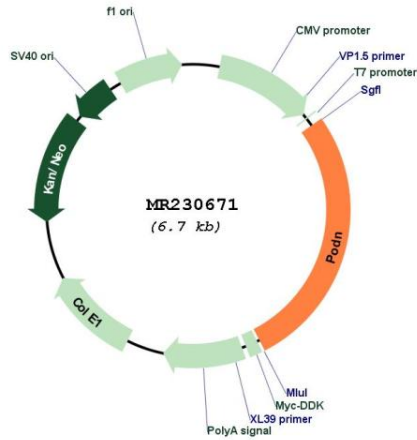
RefSeq ORF: 1836 bp

Locus ID: 242608

UniProt ID: [Q7TQ62](#)

**Cytogenetics:** 4 C7  
**MW:** 68.7 kDa  
**Gene Summary:** Negatively regulates cell proliferation and cell migration, especially in smooth muscle cells. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230671