

## Product datasheet for **MR221940**

### **Pnn (NM\_008891) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Pnn (NM_008891) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                |
| Symbol:                   | Pnn                                    |
| Synonyms:                 | AU045199; D12Ertd512e                  |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-Entry (PS100001)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |



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ORF Nucleotide  
Sequence:

>MR221940 representing NM\_008891  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGGTGCGCCGTGAGAGCTTTGCAGGAGCAGCTAGAGAAGGCCAAAGAGAGCCTCAAGAATGTGGACG  
 AGAATATCCGCAAGCTCACCGGGCGGGACCCGAATGATGTGAGGCCCATCCAAGCCAGATTGCTGGCCCT  
 TTCTGGTCTGGTGGAGGTAGAGGACGAGGTAGCTTATTGCTAAGGCGTGGATTCTCAGATAGTGGAGGA  
 GGACCCCAAGCAAAAGAGAGCCTGGAAGGGGAGTCAAGTGGTGGGAGCGTCGGACAAGAA  
 GAGAATCACGCCAGGAGAGCGACCCAGAAGACGATGATGTTAAAAAGCCAGCACTGCAATCTTCCGTTGT  
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 AGGCGGAACAAGAAGAGGGTAAGGTGGCTCAGCGAGAGGAAGAGTTGGAGGAGACAGGTAATCAGCACAA  
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 AAGGTGAGAAGCAGCAGGATAGTCAGCCAGAAGAAGTATGGATGTGCTAGAGATGGTGGAAAGTGTCAA  
 ACACGTAATTGCTGAGCAGGAAGTAATGGAACCTAACCAAGTTGAAAGTATAGAGCCTTCAGAAAATGAA  
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 AGAACCTGAGCCCAACCTGAGCCTGTGGCTCAGCCTCAGCCCCACCTCAGCCCTGCCCCAGAGCCAG  
 CCCCATTCTCAGCCCACTCCCAGCCCCAGCCTGTACTCCAGTCCCAGCCTCTCTGTGAGCCTGAGACTT  
 TGCCATTAGCTGTTTTGAGCCTCCACCTCAGGTTATTCAGGAGCAAGGGAATCTACTACCTGAGCGGAA  
 GGATTTCTCTAGAGTCTATAAACTCCCTGAGGTGTCTGTAGAGCCAGTCTTGACAGTACATTCAGAA  
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 TGGCAGCAGCAGTAGTGAAGCAGCTCCAGCAGCAGCTCCAGCAGAGTGGGAGCAGCAGAGAGACAGC  
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 AAAGGCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATGAGTTTAA

**Protein Sequence:** >MR221940 representing NM\_008891  
Red=Cloning site Green=Tags(s)

```
MAVAVRALQEQLKAKESLKNVDENIRKLTGRDPNDVRPIQARLLALSGPGGGRGRGSLLLRRGFSDSGG
GPPAKQRDLEGAVSRLGGERRTRRESRQESDPEDDDVKKPALQSSVVATSKERTRRDLIQDQNMDEKKGQ
RNRRIFGLLMGTLQKFKQESTVATERQKRRQIEQKLEVQAEERKQVENERRELFEERRAKQTELRLLE
QKVELAQLQEEWNEHNAKIIKYIRTKTKPHLFYIPGRMCPATQKLIIEESQRKMNALFEGRRIEFAEQINK
MEARPRRQSMKEKEHQVVRNEEQKAEQEEGKVAQREEELEETGNQHNDVEVEEAGEEEEEKEAGIVHSDAE
KEQEEEEQKQEMEYKTEEEAEVREGEKQQDSQPEEVMDVLEMVESVKHVI AEQVMTNQVESIEPSENE
TSKELEPEMEFDVEPDKECKSLSPGKENINSQEVEKESEEKKEEKEPEPQPEPVAQPQPPPQPLPQSQ
PHSQPHSQPQPVLSQPLCQPETLPLAVLQPPPQVIQEQGNLLPERKDFPLESIKLEPVSVPEVLT VHSE
NKSKNTRSRSRGRARNKTSKSRSSSSSSSSSSSTSSSSGSSSSSGSSSSSRSSSSSSSSSTSGSSSRDS
SSSTSSSESRSRGRGHNRDRKHRRSVDRKRRDTSGLERSHKSSKGGSSRDTKGSKDKSSRPDRKRSI
SESSRSRSGKRSSRSERDRKSDRKDKRR
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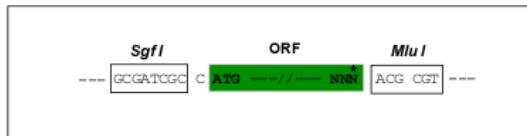
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9049\\_e03.zip](https://cdn.origene.com/chromatograms/mm9049_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008891

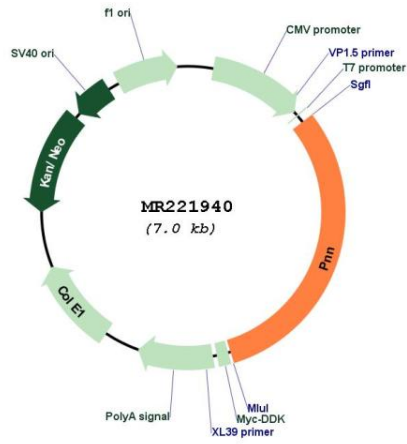
**ORF Size:** 2178 bp

**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.

|                               |  |
|-------------------------------|--|
| <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>                | <u><a href="#">NM_008891.2</a></u> , <u><a href="#">NP_032917.2</a></u>  |
| <b>RefSeq Size:</b>           | 3469 bp  |
| <b>RefSeq ORF:</b>            | 2181 bp  |
| <b>Locus ID:</b>              | 18949  |
| <b>UniProt ID:</b>            | <u><a href="#">O35691</a></u>  |
| <b>Cytogenetics:</b>          | 12 26.0 cM   |
| <b>MW:</b>                    | 83 kDa   |
| <b>Gene Summary:</b>          | Transcriptional activator binding to the E-box 1 core sequence of the E-cadherin promoter gene; the core-binding sequence is 5'CAGGTG-3'. Capable of reversing CTBP1-mediated transcription repression. Auxiliary component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Participates in the regulation of alternative pre-mRNA splicing. Associates to spliced mRNA within 60 nt upstream of the 5'-splice sites. Component of the PSAP complex which binds RNA in a sequence-independent manner and is proposed to be recruited to the EJC prior to or during the splicing process and to regulate specific excision of introns in specific transcription subsets. Involved in the establishment and maintenance of epithelia cell-cell adhesion (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR221940