

Product datasheet for **MG221940**

Pnn (NM_008891) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnn (NM_008891) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pnn
Synonyms:	AU045199; D12Ertd512e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG221940 representing NM_008891
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGTGCGCCGTGAGAGCTTTGCAGGAGCAGCTAGAGAAGGCCAAAGAGAGCCTCAAGAAATGTGGACG
 AGAATATCCGCAAGCTCACCGGGCGGGACCCGAATGATGTGAGGCCCATCCAAGCCAGATTGCTGGCCCT
 TTCTGGTCTGGTGGAGGTAGAGGACGAGGTAGCTTATTGCTAAGGCGTGGATTCTCAGATAGTGGAGGA
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 GAGAATCACGCCAGGAGAGCGACCCAGAAGACGATGATGTTAAAAAGCCAGCACTGCAATCTTCCGTTGT
 AGCTACCTCCAAAGAGCGCACGCGCAGAGACCTTATCCAGGATCAAAACATGGATGAGAAGGGGAAGCAA
 AGGAACCGACGAATATTTGGCTTGTGATGGGCACTCTTCAGAAATTTAAACAAGAATCTACTGTTGCTA
 CTGAACGGCAAAAAGACGCCAAGAAATGAACAAAACTTGAAGTTCAGGCTGAAGAAGAGAGAAAAGCA
 GGTGAAAACGAGAGGCGAGAATGTTGAGGAGAGACGTGCTAAGCAGACGGAGCTGCGGCTTCTGGAG
 CAGAAGGTTGAGCTTGCCGAGCTGCAAGAAGAATGGAATGAACATAATGCCAAGATAATTAAGTATATAA
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 CTGAAAAAGAGAAATTAATTCTCAGGAAGTGGAAAAGGAGTCTGAGGAGAAAAGGAAAAAGAGAGAA
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 TGCCATTAGCTGTTTTGAGCCTCCACCTCAGGTTATTCAGGAGCAAGGGAATCTACTACCTGAGCGGAA
 GGATTTCTCTAGAGTCTATAAACTCCCTGAGGTGTCTGTAGAGCCAGTCTTGACAGTACATTCAGAA
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 GTCGGAGCAGCAGCAGCAGTAGTTCCAGTAGCAGCTCTACTAGTAGCAGCAGCGGAGCAGCTCCAGCAG
 TGGCAGCAGCAGTAGTGAAGCAGCTCCAGCAGCAGCTCCAGCAGAGTGGGAGCAGCAGAGAGACAGC
 AGCAGCAGCACTAGCAGTAGCAGTAGGAGTGCAGTAGGGGCCGAGGACATAACCGAGATAGGA
 AGCAGCAGAAAGGAGCGTGGACCGGAAGCGAAGGGTACTTCAGGACTAGAAAGAAGTCACAAGTCTTCAA
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 TCAGAGAGTAGTCGATCAGGCAAAAGATCTTCAAGAAGTAAAGAGACCGAAAATCAGACAGGAAAGACA
 AAAGGCGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG221940 representing NM_008891
Red=Cloning site Green=Tags(s)

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MAVAVRALQEQLKAKESLKNVDENIRKLTGRDPNDVRPIQARLLALSGPGGGRGRGSLLLRRGFSDSGG
GPPAKQRDLEGAVSRLGGERRTRRESRQESDPEDDDVKKPALQSSVVATSKERTRRDLIQDQNMDEKQKQ
RNRRI FGLLMGTLQKFKQESTVATERQKRRQIEQKLEVQAEERKQVENERRELFEERRAKQTELRLLE
QKVELAQLQEEWNEHNAKIIKYIRTKTKPHLFYIPGRMCPATQKLI EESQRKMNALFEGRRIEFAEQINK
MEARPRRQSMKEKEHQVVRNEEQKAEQEEGKVAQREEELEETGNQHNDVEVEEAGEEEEEKEAGIVHSDAE
KEQEEEEQKQEMEVKTEEEAEVREGEKQDSQPEEVMDVLEMVESVKHVI AEQEVMTNQVESIEPSENE
TSKELEPEMEFDVEPDKECKSLSPGKENINSQEVEKESEEKEEKEEPEPQPEPVAQPQPPPQPLPQSQ
PHSQPHSQPQPVLSQPLCQPETLPLAVLQPPPQVIQEQLNLLPERKDFPLESIKLEPVSVPEVLT VHSE
NKSKNKTRSRSRGRARNKTSKSRSSSSSSSSSSSTSSSSGSSSSSGSSSSSRSSSSSSSSSTSGSSSRDS
SSSTSSSESRSRGRGHNRDRKHRRSVDRKRRDTSGLERSHKSSKGGSSRDTKGSKDKSSRPDRKRSI
SESSRSKGRSSRSERDRKSDRKDKRR
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_008891.2](#), [NP_032917.2](#)

RefSeq Size: 3469 bp

RefSeq ORF: 2181 bp

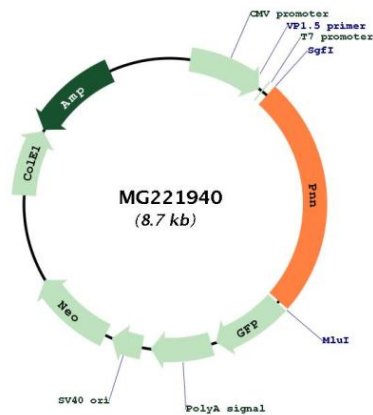
Locus ID: 18949

UniProt ID: [O35691](#)

Cytogenetics: 12 26.0 cM

Gene Summary: 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 MG221940