

Product datasheet for **MR220994**

Pdyn (NM_018863) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pdyn (NM_018863) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pdyn
Synonyms: Dy; Dyn
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220994 representing NM_018863
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTGGTCCAGGCTGATGCTGGCAGCTTGCCCTCCTCGTGATGCCCTCTAATGTTATGGCGGACTGCC
 TGTCCCTGTGCTCCCTGTGTGCAGTGAGGATTCAGGATGGGCCCGTCCCATCAACCCCTGATTTGCTC
 CCTGGAGTGCCAGGACCTGGTCCGCCCTCAGAGGAGTGGGAGACATGCCGGGGTTCTCATCTTTTCTC
 ACCCTGACGGTCTCTGGGCTCCGTGGCAAGGATGACTTGAAGATGAGGTTGCTTTGGAAGAAGGCTACA
 GTGCACTAGCCAAGCTCTTGAACCCGCTCTGAAGGAGCTGGAGAAAAGCCGACTCCTTACCAGCGTCCC
 AGAGGAAAAGTTCAGGGTCTCTCCAGCAGCTTTGGCAACGGAAAAGAATCTGAGCTGGCGGGTGTGAC
 CGGATGAATGATGAAGCCGCACAGGCGGCACGCTCCATTTTAATGAGGAGGACTTGAGAAAACAGGCCA
 AACGCTATGGCGGCTTTTTGCGCAAATACCCCAAGAGGAGTTCGAGATGGCCCGGGATGAGGACGGGGG
 CCAGGATGGGGATCAGGTAGGGCATGAGGACCTGTACAAACGCTATGGGGCTTCTCGCGGCATTTCGC
 CCCAAGCTGAAGTGGGACAACCAAGCGCTATGGTGGTTTCTGCGGCGTCAGTTCAAGGTGGTACGC
 GGTCCCAGGAGAACCCCAATACCTATTCTGAAGATTTAGATGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220994 representing NM_018863
Red=Cloning site Green=Tags(s)

MAWSRLMLAACLLVMPNSVMADCLSLCSLCAVRIQDGPRPINPLICSLECQDLVPPSEEWETCRGFSSFL
 TLTVSGLRGKDDLEDEVALEEGYSALAKLLEPVLKELEKSRLLSVPPEEKFRGLSSSFNGKESLAGAD
 RMNDEAAQAGTLHFNEEDLRKQAKRYGGFLRKYPKRSSEMARDEDDGGQDGDQVGHEDLYKRYGGFLRRIR
 PKLKWDNQKRYGGFLRRQFKVVTRSQENPNTYSEDLDV

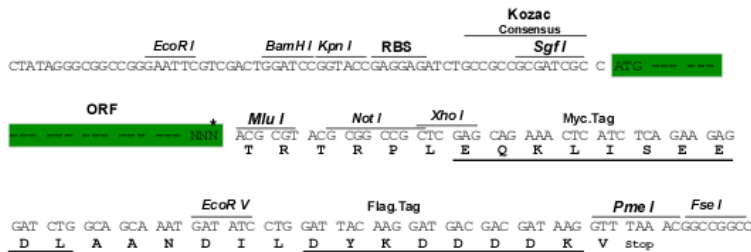
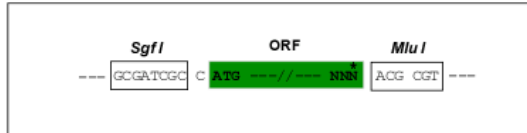
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9007_a06.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_018863

ORF Size: 744 bp

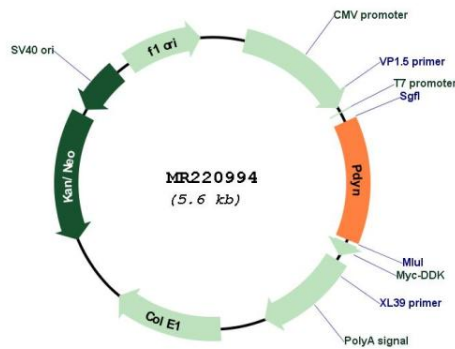
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_018863.4](#)
- RefSeq Size:** 747 bp
- RefSeq ORF:** 747 bp
- Locus ID:** 18610
- Cytogenetics:** 2 63.19 cM
- MW:** 28.5 kDa
- Gene Summary:** This gene encodes a preproprotein that is proteolytically cleaved to yield a number of active opium-like peptides. These peptides are the endogenous ligands for the Kappa-opioid receptor and similar G-protein-coupled receptors and are thought to function as the body's natural way to control addiction. These peptides have been associated with depression, stress, anxiety, response to pain, and maintenance of homeostasis via circadian rhythms and control of appetite. Mutations in the related human gene have been linked to the neurodegenerative disease spinocerebellar ataxia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

Product images:



Circular map for MR220994