

## Product datasheet for **MC226553**

### **Pdyn (NM\_001286502) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pdyn (NM\_001286502) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pdyn  
**Synonyms:** Dy; Dyn  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226553 representing NM\_001286502  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGTGGTCCAGGCTGATGCTGGCAGCTTGCCTCCTCGTGATGCCCTCTAATGTTATGGCGGACTGCC  
TGTCCTGTGCTCCCTGTGTGCAGTGAGGATTCAGGATGGGCCCGTCCCATCAACCCCTGATTTGCTC  
CCTGGAGTGCCAGGACCTGGTGCCGCCCTCAGAGGAGTGGGAGACATGCCGGGGTCTCATCTTTTCTC  
ACCCTGACGGTCTCTGGGCTCCGTGGCAAGGATGACTTGAAGATGAGGTTGCTTTGGAAGAAGGCTACA  
GTGCACTAGCCAAGCTCTTGAACCCGCTCTGAAGGAGCTGGAGAAAAGCCGACTCCTTACCAGCGTCCC  
AGAGGAAAAGTTCAGGGGTCTCTCCAGCAGCTTTGGCAACGGAAGAATCTGAGCTGGCGGGTGTGAC  
CGGATGAATGATGAAGCCGCACAGGCGGCACGCTCCATTTAATGAGGAGGACTTGAGAAAACAGGCCA  
AACGCTATGGCGGCTTTTTCGCAAAATACCCCAAGAGGAGTCCGAGATGGCCCGGGATGAGGACGGGG  
CCAGGATGGGGATCAGGTAGGGCATGAGGACCTGTACAAACGCTATGGGGCTTCTGCGGCGCATTGCG  
CCCAAGCTGAAGTGGGACAACCAGAAGCGCTATGGTGGTTTCTGCGGCGTCAGTTCAAGGTGGTGACGC  
GGTCCCAGGAGAACCCCAATACCTATTCTGAAGATTTAGATGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001286502  
**Insert Size:** 747 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>NM_001286502.1, NP_001273431.1</u>
<b>RefSeq Size:</b>	2316 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	18610
<b>Cytogenetics:</b>	2 63.19 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>