

Product datasheet for **SC331141**

ProDynorphin (PDYN) (NM_001190898) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ProDynorphin (PDYN) (NM_001190898) Human Untagged Clone
Tag: Tag Free
Symbol: ProDynorphin
Synonyms: ADCA; PENKB; SCA23
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331141 representing NM_001190898.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCTGGCAGGGGCTGGTCTGGCTGCCTCCTCATGTTCCCTCCACCACAGGGACTGCCTG
TCGCGGTGCTCCTTGTGTGCTGTAAGACCCAGGATGGTCCCAAACCTATCAATCCCCTGATTTGCTCC
CTGCAATGCCAGGCTGCCCTGCTGCCCTCTGAGGAATGGGAGAGATGCCAGAGCTTTCTGTCTTTTTTC
ACCCCTCCACCCTTGGGCTCAATGACAAGGAGGACTTGGGAGCAAGTCGGTTGGGAAGGGCCCTAC
AGTGAGCTGGCCAAGCTCTCTGGGTCATTCCTGAAGGAGCTGGAGAAAAGCAAGTTCTCCCAAGTATC
TCAACAAAGGAGAACACTCTGAGCAAGAGCCTGGAGGAGAAGCTCAGGGGTCTCTCTGACGGGTTTAGG
GAGGGAGCAGAGTCTGAGCTGATGAGGGATGCCAGCTGAACGATGGTGCCATGGAGACTGGCACACTC
TATCTCGCTGAGGAGGACCCCAAGGAGCAGGTCAAACGCTATGGGGGCTTTTTGCGCAAATACCCCAAG
AGGAGCTCAGAGGTGGCTGGGGAGGGGGACGGGATAGCATGGGCCATGAGGACCTGTACAAACGCTAT
GGGGGCTTCTTGCGGCGCATTCTGCCAAGCTCAAGTGGGACAACCAGAAGCGCTATGGCGGTTTTCTC
CGGCGCCAGTTCAAGGTGGTGACTCGGTCTCAGGAAGATCCGAATGCTTACTCTGGAGAGCTTTTTGAT
GCATAA
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Restriction Sites: SgfI-MluI
ACCN: NM_001190898
Insert Size: 765 bp
OTI Disclaimer: 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).
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).



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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_001190898.2](#)

RefSeq Size: 2797 bp

RefSeq ORF: 765 bp

Locus ID: 5173

UniProt ID: [P01213](#)

Cytogenetics: 20p13

Protein Families: Secreted Protein

MW: 28.4 kDa

Gene Summary: The protein encoded by this gene is a preproprotein that is proteolytically processed to form the secreted opioid peptides beta-neoendorphin, dynorphin, leu-enkephalin, rimorphin, and leumorphin. These peptides are ligands for the kappa-type of opioid receptor. Dynorphin is involved in modulating responses to several psychoactive substances, including cocaine. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (2) has an alternate splice site in the 5' UTR, which results in three nt less than variant 1. Variants 1-5 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.