

Product datasheet for SC112227

ProDynorphin (PDYN) (NM_024411) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ProDynorphin (PDYN) (NM_024411) Human Untagged Clone
Tag:	Tag Free
Symbol:	ProDynorphin
Synonyms:	ADCA; PENKB; SCA23
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112227 sequence for NM_024411 edited (data generated by NextGen Sequencing)

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ATGGCCTGGCAGGGGCTGGTCCTGGCTGCCTGCCTCCTCATGTTCCCTCCACCACAGCG
GACTGCCTGTGCGGGTGCCTTGTGTGCTGTAAGACCCAGGATGGTCCCAAACCTATC
AATCCCTGATTTGCTCCCTGCAATGCCAGGCTGCCCTGCTGCCCTCTGAGGAATGGGAG
AGATGCCAGAGCTTTCTGTCTTTTTTACCCCTCCACCCTGGGCTCAATGACAAGGAG
GACTTGGGGAGCAAGTCGGTTGGGGAAGGGCCCTACAGTGAGCTGGCCAAGCTCTCTGGG
TCATTCTGAAGGAGCTGGAGAAAAGCAAGTTTCTCCAAGTATCTCAACAAAGGAGAAC
ACTCTGAGCAAGAGCCTGGAGGAGAAGCTCAGGGGTCTCTGACGGGTTTAGGGAGGGA
GCAGAGTCTGAGCTGATGAGGGATGCCAGCTGAACGATGGTCCATGGAGACTGGCACA
CTCTATCTCGCTGAGGAGACCCCAAGGAGCAGGTCAAACGCTATGGGGGCTTTTTGCGC
AAATACCCAAGAGGAGCTCAGAGGTGGCTGGGGAGGGGGACGGGATAGCATGGCCAT
GAGGACCTGTACAACGCTATGGGGGCTTCTTGCGGCGCATTTCGTCCAAGCTCAAGTGG
GACAACCAAGAAGCGCTATGGCGGTTTTCTCCGGCGCCAGTTCAAGGTGGTGACTCGGTCT
CAGGAAGATCCGAATGCTTACTCTGGAGAGCTTTTTGATGCATAA

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Clone variation with respect to NM_024411.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024411 unedited
 TTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCTCGTGCCGAATT
 CGGCACGAGGTTACAGCTGCCTCTTTGGCACCTCCTCCCAAGCCGGAGTCAAGGAGGCC
 CCTGAGCCTTGGACCAGCCACTGCCACCTCCGACCTGCTCGGCCAGAAGCTGCCAGGGA
 CAAAGCAGAGTGCAGGTCAATTTATCTTCAGGCTTTGAGATCTGCGTGGGGGAGCTGTTG
 CAGCAGCCCAAGCCGGAATTGCTGAGACAGGATGGCCTGGCAGGGGCTGGTCTGGCTGC
 CTGCCTCCTCATGTTCCCTCCACCACAGCGGACTGCCTGTGCGGGTGCCTCTTGTGTGC
 TGTAAAGACCCAGGATGGTCCCAAACCTATCAATCCCCTGATTTGCTCCCTGCAATGCCA
 GGCTGCCCTGCTGCCCTCTGAGGAATGGGAGAGATGCCAGAGCTTTCTGTCTTTTTTAC
 CCCCTCCACCCTTGGGCTCAATGACAAGGAGGACTTGGGGAGCAAGTCGGTTGGGGAAGG
 GCCCTACAGTGAGCTGGCCAAGCTCTCTGGGTCATTCTGAAGGAGCTGGAGAAAAGCAA
 GTTTCTCCCAAGTATCTCAACAAAGGAGAACACTCTGAGCAAGAGCCTGGAGGAGAANGC
 TCAGGGGTCTCTNGACGGGTTTAGGGAGGGANGCAGAGTCTGAGCTGATGAGGGATGC
 CCAGCTGAACGATGGTGCATGGAGACTGGCACACTCTATCTCGTGAGGAGGACCCCAA
 GGAGCANGTCAAACGCTATGGGNGGGCTTTTTGCGCANATACCCCAAGAAGAGCTCANAG
 GTGGCTGGGGGAGGGGGACGGGGATANCAATGGGCAATGAGACCTGTACAACGCTTGGGG
 GGCTNNCTTGCGNGCATTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024411 unedited
 NTTAGCTCTGNACCCGCGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTCATCA
 GCATCTTTCTTTATTTATTGTACTGGAGGAGCAGGAAATTACACAAGCCTATTAAGGC
 TAAGCAAATCCAAGTAAATTGCATAAATGGGATTTTTTTAAAGGACACAAAATAACTCT
 AAAACAATCTATCCATTTCAAAACATCATCAGATACCTGGGGACTGCGCATGAAAAGATG
 TGCTCAGCAGCATTTATACAAATTATCCAAACTCAAGCCTTTTCTCTCTATCCAGCC
 TCATCTCCTGGACCCACAAACAAAAGAGAGTGCCTGGGAATGAGAGAGCAAAAGAGAGA
 CAGACAGACAGGGAGGGCTTTGATGAAACCAAGACATCAGGAGGTCTCTGCCTCTGATT
 CAGGGTATTTGAATCAAGGAACTCATTTGGCCTCAAGCACTTAATCATTTTATTCCTC
 TTTCTGGTTTTATTTGAGACATTAAGAGGAAAGAAGCATTATGGGGATTGAAGAGGGCT
 TTTTCTTTTCTAGCTGCTGCTTCTGGAGTCCCTTACCCAATGCCAGTGCATGTTGG
 GCCAGATGGCTTGGACTTTGGCAGCCAATTCAGCTGCTCAAGAACATGGTTGTGCTTAA
 CTTTCATCAGCTTGACTCTGCTTCCAGTTCCACATGGAGTAGAAGCATGATACCCATCAGTT
 TAATTAGTTTAATGAGGGCTGANGGAAGTGGTCCACATTTTGGATTTGTTGCACAGAACA
 ANATTGTTTGCCTTTNCTCCCTCCTGATCATTTAAGCATTCAAGAGGCTGCTCTCAATCA
 TTTCCGAAAGAAGTTTTCACTTCTTCTGTNANGAGTANGCACTGTCCANNGTACAACAT
 GACNTGGGAGTCAGAAGTCAAGTCTCAAGAGGTGCTTTCTGAACATGAGA

Restriction Sites:

NotI-NotI

ACCN:

NM_024411

Insert Size:

2710 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).

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_024411.2](#), [NP_077722.1](#)

RefSeq Size: 2571 bp

RefSeq ORF: 765 bp

Locus ID: 5173

UniProt ID: [P01213](#)

Cytogenetics: 20p13

Domains: Opioids_neuropep

Protein Families: Secreted Protein

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 (1) and variants 2-5 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.