

Product datasheet for **SC113164**

PDXP (NM_020315) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDXP (NM_020315) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDXP
Synonyms:	CIN; dj37E16.5; PLP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020315, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCTGCGAGAGGCTGCGCGGAGCGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGCTCCTGT  
TCGACTGTGACGGGGTGTGTGGAACGGCGAGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGT  
GGCGCGGGCCGGCAAGGCGGCTCTGTTTGTGAGCAACAACAGCCGGCGCGCGGCCCGAGCTGGCCCTG  
CGCTTCGCGCGCCTCGGCTTCGGGGGGCTGCGCGCCGAGCAGCTTTCAGCTCCGCGCTGTGCGCCGCG  
GCCTGTGCGCCAGCGCCTGCCCGGGCTCCGGACGCGCCGGGCGCCGTGTTCTGTGCTGGCGCGGAGGG  
GCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGCCGGGACCCGAGCGCGGGGACGGCGCGGCC  
CCGCGCGTGCAGCCGTGCTTGTGGGCTACGACGAGCACTTCTCCTTCGCAAGCTGAGGGAGGCGTGCG  
CGCACCTGCGCGACCCGAGTGCCTACTCGTGGCCACCGACCGTGACCCATGGCACCCGCTGAGCGACGG  
CAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAAGTGAGACAGCCTCGGGACGCCAGGCCCTGGT  
GTGGGCAAGCCAGCCCTACATGTTTCGAGTGCATCACGGAGAATTTCAGCATCGACCCCGACGACGCG  
TTATGGTGGGTGACCGCCTGGAGACCGACATCCTCTTTGGCCACCGCTGCGGCATGACCACTGTGCTCAC  
GCTCACAGGAGTCTCCGCCTAGAAGAGGCCAGGCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCC  
CATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGACTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020315 unedited TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCGGCCGGCCGGCT GCATGGCGCGCTGCGAGAGGCTGCGCGGAGCGGCCCTGCGCGACGTGCTGGGCGGGGCGC AGGGGGTCTGTTCGACTGTGACGGGGTGTGTGGAACGGCGAGCGGCCGTGCCGGGCG CCCCAGAGCTGCTGGAGCGGCTGGCGCGGGCCGCAAGGCGGCTCTGTTTGTGAGCAACA ACAGCCGGCGCGCGGGCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGTTTCGGGGGGC TCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCC TGCCCGGGCCTCCGGACGCGCCGGGCGCCGTGTTTCGTGCTGGGCGCGAGGGGCTGCGCG CCGAGCTGCGCGCCGCGGGGCTGCGCCTGGCCGGGACCCGAGCGCGGTGACGCGCGCG CCCCAGCGCTGCGCGCCGTGCTTGTGGGTACGACGAGCACTTCTTTCGCAAGCTGA GGGAGGCGTGCAGCACCTGCGCGACCCGAGTGCCTACTCGTGGCCCCGACCGTGACCC ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCGGAGCCTGCCCGTGCAGT GGAGACAGCCTCGGGACGCCAGCCCTTGGTGGTGGCAAGCCCCACCCCTACATGTTTCG AGTGCATTACGGGAGAACTTCAGCAATCGACCCTTGACGCGACGCTTTATGGTGGNGTGA CCCGCTGTGAAACCGACATCCTCTTTTGTCCCCGCTGCGGGATGACCACTGTGCTCAC GCTCACAGGATTTTCCCCCTAAAAAGCCAGGCCTACCTAGTGGCGGGCCGTAGGACC TTGGGCCCATATTATGGGGGAGCATTCAAATATACAAAGGGTTGGAGCACGGACCCC TTGC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020315 unedited CCGCATTTTAGTATCGAGTTTTTTTTTTTTTTTTTTTAACTCCCACGCGCACTTTATTA AGTACGGAAGGACAGGTACAACAGGGGTAGGAGGTGGCGGGGAAGGCCATCCCCACC CACCATCACTGGCACACAATAAATAAATAAGTAAATAGCCAAGTGGGCACGGGAGAGAGG TGGTACTGAAAACACTGACCGCACAGGGGACACGAAAGCCCCCTTCGAGCTGTGGCCA TCAACGCTGTACGGGTACCATGACCAGGAAAGGGTGGGGCTTGGCCACAGAAGCCCCAGA GCATCACAAAGTCTTTGTAAGGAGAGGTGTCTTTAAGACGTGGACCACTCTTATTTACTG ACTGAAACCTGGACCCCTAGCTGGTCCCGTGAGACCCATATTATCAAGGGGCCACTGTCT CTCAAGCTTCTGGACTGTCTACTGAGGATCTAAAAGACCACTGGGTCACTATCACTTGG GGTCTGATGGGTCCACCCAGGGACCTAAGACATGCGAGGGTCATCGTCACTTAAGCTTC CGATTGGTCCACCTCGGGCTCCAGGACGTGAAAGGGTCACTATTACTTAGGAACCTAAAC TGGTACCCACAGGACCAACATTGATGAGTCACTATCACTTAGCCTTTGGATTGGTCCA CCCAGGACAATAAAGGGTTGTGGTTCCTAGACCTCTGGGTGACAAGGACCCAAGGGCCA GGACCTGAAGGGCAGATAGAGCTCTATATCCCCATGGAAGGGGAGAAGACTAATACTCAG GGATAGAAGAATCTTCAGCACGCACAAGGCCAGATTTAAAGAGGGAAGTACAGGAATA ATAAGCCACTGGCTGGTCAGGCCATATGATCATAGGGACAGCTTTGCGGACAAAATGCCA CCCTGTGGGAAGTTTGAATGGCCTAACTCCCGGTCCACCACCGGTGAAATGGCAGGAC CCTGCCTAACGCCGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_020315
Insert Size:	2000 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:	<ol style="list-style-type: none">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_020315.3 , NP_064711.1
RefSeq Size:	2072 bp
RefSeq ORF:	891 bp
Locus ID:	57026
UniProt ID:	Q96GD0
Cytogenetics:	22q13.1
Domains:	Hydrolase
Protein Pathways:	Metabolic pathways, Vitamin B6 metabolism
Gene Summary:	Pyridoxal 5-prime-phosphate (PLP) is the active form of vitamin B6 that acts as a coenzyme in maintaining biochemical homeostasis. The preferred degradation route from PLP to 4-pyridoxic acid involves the dephosphorylation of PLP by PDXP (Jang et al., 2003 [PubMed 14522954]).[supplied by OMIM, Mar 2008]