

Product datasheet for **SC121999**

PDP2 (NM_020786) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDP2 (NM_020786) Human Untagged Clone
Tag:	Tag Free
Symbol:	PDP2
Synonyms:	PDPC 2; PPM2B; PPM2C2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC121999 sequence for NM_020786 edited (data generated by NextGen Sequencing)

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ATGTCAAGTACTGTGTCCTACTGGATCTTAAATCTACAAGGAACAGCATTGCCACATTG
CAAGGGGGTAGACGCTTATACTCCAGGTATGTCTCAAATAGGAATAAATAAAATGGAGG
CTCTTTTCCCGGGTGCCACCCACCCTAACAGTCCCCATGTGGTGGCTTTACTCTGTGC
AAAGCCTACAGACACACATCAACAGAGGAAGATGATTTTCACTTGCAACTCAGCCCTGAG
CAGATAAATGAAGTGCTTCGAGCTGGCGAGACAACCCACAAGATTCTTGACCTTGAAAGC
AGAGTCCCAAATTCAGTGTGGCGTTTGAGAGCAACCAGCTGGCTGCCAATCCCCAGTG
GAGGACCGGCGAGGTGTAGCCTCCTGCCTGCAAACCAATGGACTGATGTTTGGCATCTTC
GATGGACATGGTGGTCATGCATGTGCCAAGCAGTGAGCGAGAGGCTCTTCTACTATGTG
GCAGTGTCCCTGATGTCCACCAGACCCTGGAGCAGATGGAGGGAGCTATGGAAAGCATG
AAACCCTTGCTGCCATCCTGCATTGGCTCAAGCACCCAGGGGACAGTATCTACAAGGAT
GTCACATCTGTGCATCTTGACCACCTCCGTGTCTATTGGCAGGAAGTCTTGATTGAC
ATGGAAATGGGACTAAGCATTGAAGAAGCATTAAATGACTCCTTCCAGAGACTGGATTCT
GACATCTCGCTGAAAATCCAGGCCCCCTGGAAGATGAGGTGACAAGGAACCTGTCACTC
CAGGTTGCTTTCTCTGGGCAACAGCTTGCATGGCCCATGTTGATGGAATCACTTGAC
GTGGCAAATGCTGGTGACTGCCGAGCCATCCTTGGTGTCCAAGAGGACAATGGCATGTGG
TCTTGTCTGCCCTTACACGTGACCACAATGCCTGGAACCCAGGCCGAGCTGTCCCGGCTA
AAGAGGGAGCACCCCTGAGTCAGAGGACAGGACGATCATCATGGAGGACAGGCTACTGGGC
GTCCTCATCCCTGCAGGGCCTTTGGGGATGTTCACTGAAGTGGAGTAAAGAGTTGCAG
CGCAGCATTCTGGAGAGGGGCTCAATACCGAGGCCCTCAACATTTACCAGTTACACCC
CCACACTACTACTCCACCCTACCTGACTGCTGAGCCTGAGGTCACATACCACAGGCTG
AGGCCCCAGGATAAGTTCTTGTGCTGGCCTCAGATGGCCTGTGGGACATGCTGAGCAAT
GAGGACGTGGTAAGGCTGGTGGTGGGGCACCTGGCTGAGGCAGATTGGCACAAGACAGAC
CTGGCCCAGAGACCCGCCAACTTGGGGCTCATGCAGAGCCTGCTGCTGCAGAGGAAAGCC
AGCGGGCTCCACGAGGCTGACCAAAATGCAGCCACGCGGCTGATCAGACATGCCATCGGG
AACAAATGAGTATGGGGAGATGGAGGCAGAGCGGCTGGCGGCGATGCTGACATTGCCAGAG
GACTTGGCGAGGATGTACAGGGATGATATCACTGTCACTGTGGTGTATTTAACTCAGAA
TCAATCGGTGCATATTACAAGGGGGTTAA
    
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Clone variation with respect to NM_020786.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_020786 unedited

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NNGTCAGAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGAGCGGGC
GGCTGTGGCCTCGCCAGCTGGTGAAGCGGGCAGGGTCCGAGGTTTAAAAATATCCTT
TTTTGCTGAAGGAACACATTTGCTGGTATAGTTTCAGAATGTCAAGTACTGTGTCCTACT
GGATCTTAAATTTACAAGGAACAGCATTGCCACATTGCAAGGGGGTAGACGCTTATACT
CCAGGTATGTCTCAAATAGGAATAAATAAAATGGAGGCTTTTTCCCGGGTGCCACCCA
CCCTAAACAGTTCATGTTGGTGGCTTTACTCTGTGCAAAGCCTACAGACACACATCAA
CAGAGGAAGATGATTTTCACTTGCAACTCAGCCCTGAGCAGATAAATGAAGTCTTCGAG
CTGGCGAGACAACCCACAAGATTCTTGACCTTGAAGCAGAGTCCCAAATTCAGTGTTC
GGTTTGAGAGCAACCAGCTGGCTGCCAATTCAGTGGAGGACCGGCGAGGTGTAGCCT
CCTGCCTGCAAACCAATGGACTGATGTTTGGCATCTTCGATGGACATGGTGGTCATGCAT
GTGCCAAGCAGTGAGCGAGAGGCTCTTCTACTATGTGGCAGTGTCCCTGATGTCCACC
AGACCCTGGAGCAGATGGAGGGAGCTATGAAAGCATGAAACCCTTGCTGCCATCCTGC
ATTGGCTCAAGCACCCAGGGGACAGTATCTACAAGGATGTCACATCTGTGCATCTTGACC
ACCTCCGTGTCTATTGGCAGGAAGTCTGATTGTCACATGGAATGGGACTAAGCATTG
AAGAGCATNTATGTAATCCTTCCAGAGACTGGATTCTGACATCTCGTGGAAATCCNAGC
CCCCCTGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' genomic read for NM_020786 unedited NNTTTAGCTTGNACCCGGCCGCATCTANGATCGATTTTTTTTTTTTTTTTTTTGAGACAGA GTTTCACTCTTGTGGCCAGGCTGGAGTGCAATGGTGCGATCCTGGCTCACCGCAACCTC CGCCTCCCGGTTCAAGCGATCTCCCGCTCAGCCTCCCGAGTAGCTGGGACTACAGGC ACGCACCACACCTGGCTAATTTGTACTTCTAGTAGAGACGGAGTTTCTCCATGTTG GTCAGGCCGGTCTCGAACTCCCGACCTCAGGCGATCCATCCGCCCTCGGCCTCCCACAGTG CCGGGACTACAGGCGTAAACCACCGCACCCAGCAAGAAGGAATATTAATGGTTTCAGAA TAAAAGGATCAAGGCTTAAATATTCAAAAGATAATTTCTTAGATGAAAACACATGACTAA ACAGTTGCACTGAAAAATGTACAAAGAAACACCACCAAATTAGAAGTATCCCAACATTTG ACTGAATGTCAGCTGGGACATAGACAAAAACAGGAAACCAAACCTAGCTATTTGTTTTT CTTTTCAGTAGGTGGCATAAAGGGTAAGATGAGAAAAGGGATCAACAAATGTAGTTCAA CTTAATTGAAGAATTCTGCCTGACGTAGTAGAGGCAAATAAAATGTTGGTTTTGTGGGA TTATATTTGTTTCCATTTANGGACACATTTCTGTTGTTAAATGCCACAGCAACTCATG AGATGAAATTCATCTCCAAAATGGATCCACATAACTNGAATTTCCAAGTAAATACAAAGA GTCTACAGCCCACAGAAACCATTACAAATTACACTTTTATTTTTGCCCCACTCTATAC TAAAATGGGTCTATTCTGGAGACTACCAAGGTGTTTATCCACAGTCTTGGGCAAGCG GCCCATCTGAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_020786
Insert Size:	3750 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_020786.1 , NP_065837.1
RefSeq Size:	3830 bp
RefSeq ORF:	1590 bp
Locus ID:	57546
UniProt ID:	Q9P2J9
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome, Phosphatase

Gene Summary:

This gene is a mitochondrial protein that functions as a phosphatase and is involved in the enzymatic resetting of the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2016]