

Product datasheet for **SC327092**

PDP1 (NM_001161780) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | PDP1 (NM_001161780) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PDP1 |
| Synonyms: | PDH; PDP; PDPC; PPM2A; PPM2C |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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| Fully Sequenced ORF: | <p>>NCBI ORF sequence for NM_001161780, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGTGTGTGTGTCCCGGGCCAGACGAATTGGAATCCCAGTCAGAAGTTCCAGCCTGCCA CTGTTCTCTGATGCCATGCCAGCACCACTCAACTGTTTTTCTCTCATCCGTAAGTGT GAACTGAGCAGGATCTATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTCC TCATCGTACATTCCTCAGAGTCGACTGAGATACACACCTCATCCAGCATATGCTACCTTT TGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCCAAAGGAAGGAGATATGCTTCCACACCA CAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGT TTCAAAGTGCCAGAATTTGACGGCAAAAATGTCAGTTCTATCCTTGGATTTGACAGCAAT CAGCTGCCTGCAAATGCACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACC AGAGGGATGCTTTTGGGGTTTTTGTGGCCATGCAGGTTGTGCTTGTCCAGGCAGTC AGTGAAAGACTCTTTTATTATATTGCTGTCTCTTTGTTACCCCATGAGACTTTGCTAGAG ATTGAAAATGCAGTGGAGAGCGGCCGACTGCTACCCATTCTCCAGTGGCACAAGCAC CCCAATGATTACTTTAGTAAGGAGGCATCCAAATGTACTTTAACAGCTTGAGGACTTAC TGGCAAGAGCTTATAGACCTCAACACTGGTGGTGCAGTGCATATTGATGTTAAGGAGGCT CTAATTAATGCCTTCAAGAGGCTTGATAATGACATCTCCTTGGAGCGCAAGTTGGTGAT CCTAATCTTTTTCTCAACTACCTGGTGCTTCGAGTGGCATTCTTGGAGCCACTGCTTGT GTGGCCCATGTGGATGGTGTGACCTTCATGTGGCCAATACTGGCGATAGCAGAGCCATG CTGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGCTAATGACCACAAT GCTCAAAATGAAAGAGAAGTACAACGGCTGAAATTGGAACATCCAAGAGTGAGGCCAAG AGTGTGCGTAAACAGGATCGGCTGCTTGGCTTGTGCTGATGCCATTTAGGCCATTTGGAGAT GTAAAGTTCAAAATGGAGCATTGACCTTCAAAGAGAGTGTAGAAATCTGGCCAGACCAG TTGAATGACAATGAATATACCAAGTTTATTCCTCCTAATTACACACACCTCCTTATCTC ACTGCTGAGCCAGAGGTAACCTTACCACCGATTAAGGCCACAGGATAAGTTTCTGGTGTTG GCTACTGATGGGTTGTGGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAG TACCTAACTGGCATGCATACCAACAGCCAATAGCTGTTGGTGGCTACAAGGTGACTCTG GGACAGATGCATGGCCTTTTAAACAGAAAGGAGAACCAAAATGTCCTCGGTATTTGAGGAT CAGAACGCAGCAACCCATCTCATTGCCACGCTGTGGGCAACAACGAGTTTGGGACTGTT GATCATGAGCGCCTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGA GATGACATTACAATCATTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGGTATCAAAAC CAAGAA </pre> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_001161780 |
| 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <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: | <u>NM_001161780.1</u> , <u>NP_001155252.1</u> |
| RefSeq Size: | 4247 bp |
| RefSeq ORF: | 1689 bp |
| Locus ID: | 54704 |
| UniProt ID: | <u>Q9P0J1</u> |
| Cytogenetics: | 8q22.1 |
| Protein Families: | Druggable Genome, Phosphatase |
| Gene Summary: | <p>Pyruvate dehydrogenase (E1) is one of the three components (E1, E2, and E3) of the large pyruvate dehydrogenase complex. Pyruvate dehydrogenase kinases catalyze phosphorylation of serine residues of E1 to inactivate the E1 component and inhibit the complex. Pyruvate dehydrogenase phosphatases catalyze the dephosphorylation and activation of the E1 component to reverse the effects of pyruvate dehydrogenase kinases. Pyruvate dehydrogenase phosphatase is a heterodimer consisting of catalytic and regulatory subunits. Two catalytic subunits have been reported; one is predominantly expressed in skeletal muscle and another one is much more abundant in the liver. The catalytic subunit, encoded by this gene, is the former, and belongs to the protein phosphatase 2C (PP2C) superfamily. Along with the pyruvate dehydrogenase complex and pyruvate dehydrogenase kinases, this enzyme is located in the mitochondrial matrix. Mutation in this gene causes pyruvate dehydrogenase phosphatase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Jun 2009]</p> <p>Transcript Variant: This variant (3) lacks an internal segment in the 5' UTR, compared to variant 2. Variants 2 and 3 encode the same isoform 2.</p> |