

## Product datasheet for **MC218699**

### **Pdp1 (NM\_001033453) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pdp1 (NM_001033453) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pdp1
Synonyms:	Gm1024; Ppm2c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218699 representing NM\_001033453  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAGCACCAACTCAACTGTTTTTCTCTCGTCCGTAAGTGTGAAGTGAAGCAGAATCTATGGCACTG  
 CATGTTACTGCCACCACAACATCTCTGCTGTTACCACCATACATTCTCAGAATCGTCTGAGGTACAC  
 ACCCCATCCTGCATATGCTACCTTTGTAGGCCACGGGAGAAGTGGTGGCAGTATACTCAAGGAAGGAGA  
 TACGCTTCTACACCGCAGAAATTTACCTCACACCTCCACAAGTCAACAGCATCCTTAAAGCTAATGAAT  
 ACAGCTTCAAAGTACCAGAATTTGATGGCAAAAATGTCAGTTCATTCTTGGATTTGACAGCAATCAGCT  
 GCCTGCAATGCACCCATAGAGGACCGGAGAAGTGCAGCAACCTGCTGCAGACCAGAGGGATGCTCTTG  
 GGGTTTTTGTGGTGCATGCAGGCTGTGCTTGTCCAGGCAGTCAAGTAAAGACTCTTCTATTATATTG  
 CTGTTTCTTGTGCCCATGAGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGTGGTCCGGCACTGCT  
 ACCTATCCTTCAGTGGCACAAGCACCCCAATGATTACTTCAGTAAGGAGCGTCCAAATTTGATTTCAAC  
 AGCTTGAGGACTTACTGGCAAGAACTCATAGACCTCAATACTGGAGAATCAGCTGATATTGATGTTAAGG  
 AGGCTTTAATTAATGCTTTCAAGAGACTCGATAATGACATTTTCATTGGAGGCTCAAGTTGGTGTATCCTAA  
 TTCTTTTCTAAATACCTGGTGCTTCGGGTAGCATTTTCTGGGGTACTGCTTGTGTGGCCCATGTAGAT  
 GGTGTTGACCTCCATGTGGCTAACACTGGTGATAGTAGAGCCATGCTAGGTGTGCAAGAAGAAGATGGCT  
 CTTGGTCAGCAGTCACACTCTCTAATGACCACAATGCTCAGAATGAAAGAGAAGTAGAGCGTCTGAAACT  
 GGAACACCCAAAAAATGAGGCCAAGAGCGTGGTAAAGCAGGACCGGCTGCTTGGCTTGTGATGCCCTTT  
 AGGGCTTTTGGAGATGTAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTATAGAGTCTGGCCAG  
 TGAGCCAGAGGTAACCTTATCACAGATTAAGGCCACAGGATAAATTCCTAGTGTTAGCAACTGATGGGTTG  
 TGGGAGACTATGCATAGACAGGATGTGGTTAGGATTGTGGGTGAATACTTAACTGGTATGCATACCAAC  
 AGCCAATAGCAGTTGGTGGGTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAGC  
 AAAGATGTCATCAGTGTGGAGGATCAGAAATGCAGCAACCCATCTCATTCCGCTGCTGTAGGCAATAAT  
 GAATTTGGGGCTGTTGATCATGAACGACTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGTCTGGATGT  
 ATAGAGATGACATTACAATCATTGTAGTTCAGTTCATTCTCATGTTGTAGGGGCATACCAAAACCAGGA  
 ACAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001033453

**Insert Size:** 1617 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\\_001033453.3](#), [NP\\_001028625.1](#)

**RefSeq Size:** 4198 bp

**RefSeq ORF:** 1617 bp

**Locus ID:** 381511

**UniProt ID:** [Q3UV70](#)

**Cytogenetics:** 4 A1

**Gene Summary:** Catalyzes the dephosphorylation and concomitant reactivation of the alpha subunit of the E1 component of the pyruvate dehydrogenase complex.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) differs in the 5' UTR and the 5' coding region and initiates translation at a downstream start codon, compared to variant 4. It encodes isoform c, which has a shorter N-terminus, compared to isoform d.