

Product datasheet for **MR230530**

Pdp1 (NM_001290391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdp1 (NM_001290391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdp1
Synonyms:	Gm1024; Ppm2c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR230530 representing NM_001290391
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTGTGTGCCGGGCCAGACGAATTGGAATCCAGTCAGAACGTCCAGTCTGCCACTGTTCTCTG
 ATGCCATGCCAGCACTCAACTGTTTTTCTCTCGTCCGTAAGTGTGAAGTGAAGCAGCAATCTATGG
 CACTGCATGTTACTGCCACCACAAACATCTCTGCTGTTACCACCATAACCTCCTCAGAATCGTCTGAGG
 TACACACCCCATCTGCATATGCTACCTTTTGTAGGCCACGGGAGAACTGGTGGCAGTATACTCAAGGAA
 GGAGATACGCTTACACCCGAGAAATTTACCTCACACCTCCACAAGTCAACAGCATCCTAAAGCTAA
 TGAATACAGCTTCAAAGTACCAGAATTTGATGGCAAAAATGTCAGTTCATTCTTGGATTGACAGCAAT
 CAGCTGCCTGCAAATGCACCCATAGAGGACCGGAGAAGTGCAGCAACCTGCTGCAGACCAGAGGGATGC
 TCTTGGGGTTTTGATGGTCATGCAGGCTGTGCTTGTCCAGGCAGTCAGTGAAGACTCTTCTATTA
 TATTGCTGTTTCTTGTGCCCATGAGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGTGGTCGGGCA
 CTGCTACCTATCCTTCAGTGGCACAAGCACCCCAATGATTACTTCAGTAAGGAGGCGTCCAAATTGTATT
 TCAACAGCTTGAGGACTTACTGGCAAGAACTCATAGACCTCAATACTGGAGAATCAGCTGATATTGATGT
 TAAGGAGGCTTTAATTAATGCTTTCAAGAGACTCGATAATGACATTTTCATTGGAGGCTCAAGTTGGTGT
 CCTAATCTTTTCTAAATACCTGGTGTTCGGGTAGCATTCTTCTGGGGCTACTGCTTGTGTGGCCCATG
 TAGATGGTGTGACCTCCATGTGGCTAACACTGGTGTAGTAGAGCCATGCTAGGTGTGCAAGAAGAAGA
 TGGCTCTTGGTCAGCAGTCACACTCTCTAATGACCACAATGCTCAGAATGAAAGAGAAGTGAAGCGTCTG
 AAAGTGGAAACACCAAAAAATGAGGCCAAGAGCGTGGTAAAGCAGGACCGGCTGCTTGGCTTGTGATGC
 CCTTTAGGGCTTTTGGAGATGTAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGAATAGAGTCTGG
 CCCAGACCAGTTGAATGACAATGAATACACCAAGTTTATCCCTCCTAACTATCATACACCTCCTTATCTT
 ACTGCTGAGCCAGAGGTAACCTTATCACAGATTAAGGCCACAGGATAAATCCTAGTGTAGCAACTGATG
 GTTTGTGGGAGACTATGCATAGACAGGATGTGGTTAGGATTGTGGGTGAATACTTAACTGGTATGCATCA
 CCAACAGCCAATAGCAGTTGGTGGGTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGG
 AGAGCAAAGATGTCATCAGTGTGAGGATCAGAATGCAGCAACCCATCTCATTCCGCATGCTGTAGGCA
 ATAATGAATTTGGGGCTGTTGATCATGAACGACTCTCTAAATGCTTAGTCTTCTGAAGAGCTTGTCTCG
 GATGTATAGAGATGACATTACAATCATTGTAGTTCAGTTCATTCTCATGTTGTAGGGGCATACCAAAAC
 CAGGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230530 representing NM_001290391
 Red=Cloning site Green=Tags(s)

MCVCPGPRRIGIPVRTSSLPLFSDAMPAPTQLFFPLVRNCEL SRIYGTACYCHHKHLCCSPPIYQNRLLR
 YTPHPAYATFCRPRENWWYQTQRRRYASTPQKFYLTPPVNSILKANEYSFKVPEFDGKNVSSILGFDSN
 QLPANAPIEDRRSAATCLQTRGMLLGVFDGHAGCACSQAVSERLFYYIAVSLLPHETLLEIENAVESGRA
 LLPILQWQHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESADIDVKEALINAFKRLDNDISLEAQVGD
 PNSFLNLYLVRVAFSGATACVAHVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTLSDNHNAQNERELERL
 KLEHPKNEAKSVVKQDRLLGLLMPFRAFQDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYL
 TAEPEVTYHRLRPQDKFLVLA TDGLWETMHRQDVVRIVGEYLTGMHHQPIAVGGYKVTLLGQMHGLLTER
 RAKMSSVFEDQNAATHLIRHAVGNNEFGAVDHERLSKMLSLPEELARMYRDDITIIIVVQFNHSHVVGAYQN
 QEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001290391

ORF Size: 1689 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001290391.1](#), [NP_001277320.1](#)

RefSeq Size: 4184 bp

RefSeq ORF: 1692 bp

Locus ID: 381511

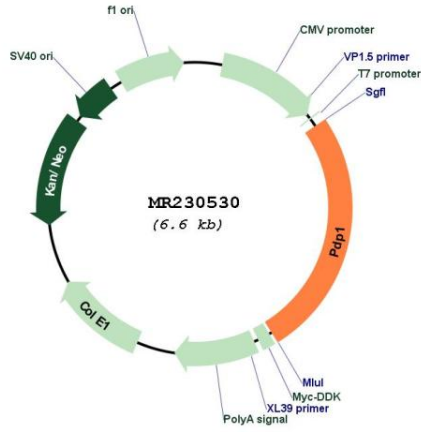
UniProt ID: [Q3UV70](#)

Cytogenetics: 4 A1

MW: 64.3 kDa

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]

Product images:



Circular map for MR230530