

Product datasheet for **MR219300**

Pdp1 (NM_001033453) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdp1 (NM_001033453) 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)



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ORF Nucleotide Sequence:

>MR219300 representing NM_001033453
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCAGCACCACCACTCACTGTTTTCTCTCGTCCGTAACGTGAACGTGAGCAGAATCTATGGCACTG
CATGTTACTGCCACCACAAACATCTCTGCTGTTACCACCATACATTCTCAGAATCGTCTGAGGTACAC
ACCCCATCTGCATATGCTACCTTTGTAGGCCACGGGAGAACTGGTGGCAGTATACTCAAGGAAGGAGA
TACGCTTCTACACCGCAGAAATTTACCTCACACCTCCACAAGTCAACAGCATCTTAAAGCTAATGAAT
ACAGCTTCAAAGTACCAGAAATTTGATGGCAAAAAATGTCAGTTCCATTCTGGATTGACAGCAATCAGCT
GCCTGCAATGCACCCATAGAGGACCGGAGAGTGCAGCAACCTGCTGCAGACCAGAGGGATGCTCTTG
GGGGTTTTGATGGTCATGCAGGCTGTGCTTGTCCCAGGCAGTCAGTAAAAGACTCTTCTATTATATTG
CTGTTTCCTTGTGCCCATGAGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGTGGTCGGGCAGCTGCT
ACCTATCCTTCAGTGGCACAAGCACCCCAATGATTACTTCAGTAAGGAGCGTCCAAATTGTATTTCAAC
AGCTTGAGGACTTACTGGCAAGAACTCATAGACCTCAATACTGGAGAATCAGCTGATATTGATGTTAAGG
AGGCTTTAATTAATGCTTTCAAGAGACTCGATAATGACATTTTCATTGGAGGCTCAAGTTGGTGATCTAA
TTCTTTTCTAAATTACCTGGTGCTTCGGGTAGCATTCTGGGGCTACTGCTTGTGTGGCCCATGTAGAT
GGTGTGACCTCCATGTGGCTAACACTGGTGATAGTAGAGCCATGCTAGGTGTGCAAGAAGAAGATGGCT
CTTGGTCAGCAGTCACACTCTCTAATGACCACAATGCTCAGAATGAAAGAGAACTAGAGCGTCTGAAACT
GGAACACCCAAAAAATGAGGCCAAGAGCGTGGTAAAGCAGGACCGGCTGCTTGGCTTGTGTATGCCCTT
AGGCGTTTTGGAGATGTAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGTAGAGCTGGCCAG
ACCAGTTGAATGACAATGAATACACCAAGTTTATCCCTCCTAATCATACACCTCCTTATCTTACTGC
TGAGCCAGAGGTAACCTTATCACAGATTAAGGCCACAGGATAAATCCTAGTGTAGCAACTGATGGGTTG
TGGGAGACTATGCATAGACAGGATGTGGTATGAGATTGTGGGTGAATACTTAACTGGTATGCATACCAAC
AGCCAATAGCAGTTGGTGGGTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAGC
AAAGATGTATCAGTGTGGAGATCAGAAATGCAGCAACCCATCTCATTGCGCATGCTGTAGGCAATAAT
GAATTTGGGGCTGTGATCATGAACGACTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGTCTGGATGT
ATAGAGATGACATTACAATCATTGTAGTTCAGTTCAAATCTCATGTTGTAGGGGCATACCAAAACCAGGA
ACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219300 representing NM_001033453
Red=Cloning site **Green**=Tags(s)

MPAPTQLFFPLVRNCELSRIYGTACYCHHKHLCCSPPIYIPQNRRLRYTPHPAYATFCRPRENWWQYTOGRR
YASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKNVSSILGFDSNQLPANAPIEDRRSAATCLQTRGMILL
GVFDGHAGCACSQAVSERLFYYIAVSLLPHETLLEIENAVESGRALLPILQWHKHPNDYFSKEASKLYFN
SLRTYWQELIDLNTGESADIDVKEALINAFKRLDNDISLEAQVGDPNFLNYLVLRFVAFSGATACVAHVD
GVDLHVANTGDSRAMLGVQEEDGSWSAVTLSDHNAQNERELERLKEHPKNEAKSVVKQDRLGLLMPF
RAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAPEVTVYHRLRPQDKFLVLAATDGL
WETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRAKMSSVFEDQNAATHLIRHAVGNN
EFGAVDHERLSKMLSLPEELARMYRDDITIIVVQFNESHVVGGAYQNQEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9035_g12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001033453

ORF Size: 1614 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_001033453.3](#), [NP_001028625.1](#)

RefSeq Size: 4198 bp

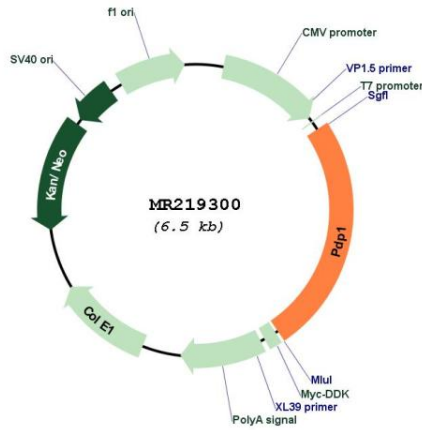
RefSeq ORF: 1617 bp

Locus ID: 381511

UniProt ID: [Q3UV70](#)

Cytogenetics: 4 A1
MW: 61.6 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 MR219300