

Product datasheet for **MR208598**

Pdp1 (NM_001098231) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdp1 (NM_001098231) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdp1
Synonyms:	Gm1024; Ppm2c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208598 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTTGTCGGCTCCGTGTGTGATGACAGGAGAATGTGTGTGTGCCGGGCCAGACGAATTGGAATCC
 CAGTCAGAACGTCCAGTCTGCCACTGTTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTCTCT
 CGTCCGTAACGTGAACTGAGCAGAATCTATGGCACTGCATGTTACTGCCACCACAAACATCTCTGCTGT
 TCACCACCATACATTCCTCAGAATCGTCTGAGGTACACACCCCATCCTGCATATGCTACCTTTTGTAGGC
 CACGGGAGAACTGGTGGCAGTACTCAAGGAAGGAGATACGCTTCTACACCGCAGAAAATTTACCTCAC
 ACCTCCACAAGTCAACAGCATCCTTAAAGCTAATGAATACAGCTTCAAAGTACCAGAATTTGATGGCAAA
 AATGTCAGTTCATTCTGGATTTGACAGCAATCAGCTGCCTGCAAAATGCACCCATAGAGGACCGGAGAA
 GTGCAGCAACCTGCTTGACAGACCAGAGGATGCTCTTGGGGTTTTTGATGGTCATGCAGCTGTGCTTG
 TTCCAGGCAGTCAAGTAAAGACTCTTCTATTATATTGCTGTTTCTTGTGCCCATGAGACTTTGCTA
 GAGATTGAAAATCGAGTGGAGAGTGGTCCGGCAGTCTACCTATCCTTCAGTGGCACAAGCACCCCAATG
 ATTAATTCAGTAAAGGAGCGTCCAAATTGTATTTCAACAGCTTGAGGACTTACTGGCAAGAACTCATAGA
 CCTCAATACTGGAGAATCAGCTGATATTGATGTTAAGGAGGCTTTAATTAATGCTTTCAAGAGACTCGAT
 AATGACATTTTATTGGAGGCTCAAGTTGGTGATCCTAATCTTTTCTAAATACCTGGTCTTCGGGTAG
 CATTTTCTGGGGTACTGCTTGTGTGGCCATGTAGATGGTGTGACCTCCATGTGGTAACACTGGTGA
 TAGTAGAGCCATGCTAGGTGTCAAGAAGAAGTGGCTCTTGGTCAGCAGTCACACTCTAATGACCAC
 AATGCTCAGAATGAAAGAGAAGTAAAGAGTCTGAACTGGAACACCCAAAAAATGAGGCCAAGAGCGTGG
 TAAAGCAGGACCGCTGCTTGGCTTGTGATGCCCTTTAGGGCTTTTGGAGATGTAAGTTCAAATGGAG
 CATTGACCTTCAAAGAGAGTGTAGAGTCTGGCCAGACCAAGTGAATGACAATGAATACACCAAGTTT
 ATCCCTCCTAACTATCATACACCTCTTATCTTACTGCTGAGCCAGAGGTAACCTATCACAGATTAAAGC
 CACAGGATAAATCCTAGTGTAGCAACTGATGGGTTGTGGGAGACTATGCATAGACAGGATGTGGTTAG
 GATTGTGGGTGAATACTTAACTGGTATGCATCACCAACAGCCAATAGCAGTTGGTGGTACAAGGTGACT
 CTGGGACAGATGCATGGCCTTTAACAGAAAGGAGAGCAAAGATGTCATCAGTGTGGAGGATCAGAAATG
 CAGCAACCCATCTCATTGCCATGCTGTAGGCAATAATGAATTTGGGGCTGTTGATCATGAACGACTCTC
 TAAAATGCTTAGTCTTCTGAAGAGCTTGTCTGGATGTATAGAGATGACATTACAATCATTGTAGTTCAG
 TTCAATTCATGTTGTAGGGGCATACCAAACCAGGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208598 protein sequence
 Red=Cloning site Green=Tags(s)

MLSAPCCDDRRMCVCPGPRRIGIPVRTSSLPLFSDAMPAPTQLFFPLVRNCELSRIYGTACYCHHKHLCC
 SPPYIPQNRLRYTPHPAYATFCRPRENWWQYTGRRYASTPQKLYLTPPQVNSILKANEYSFKVPEFDGK
 NVSSILGFDSNQLPANAPIEDRRSAATCLQTRGMLLGVFDGHAGCACSQAVSERLFYYIAVSLLPHETLL
 EIENAVESGRALLPILQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESADIDVKEALINAFKRLD
 NDISLEAQVGDPNFLNYLVLRVAFSGATACVAHVVDGVDLHVANTGDSRAMLGVQEEDGWSAVTLSNDH
 NAQNERELERLKEHPKNEAKSVVKQDRLLGLLMPFRAFGDVFKWSIDLQKRVIESGPDQLNDNEYTKF
 IPPNYHTPPYLTAPEVTYHRLRPQDKFLVLA TDGLWETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVT
 LGQMHGLLTERRAKMSSVFEDQNAATHLIRHAVGNNEFGAVDHERLSKMLSLPEELARMYRDDITIIIVVQ
 FNSHVVGAYQNQE

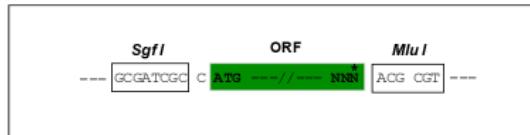
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

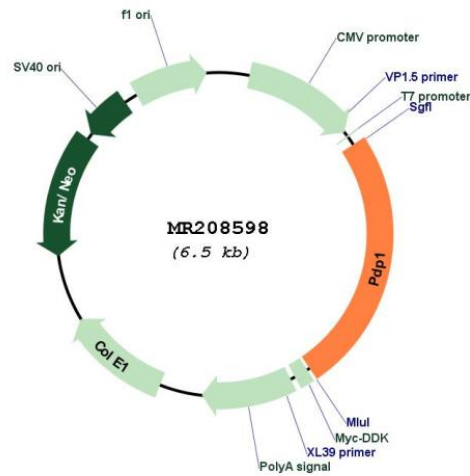
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001098231
 ORF Size: 1722 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:	<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 Size:	4149 bp
RefSeq ORF:	1725 bp
Locus ID:	381511
UniProt ID:	Q3UV70
Cytogenetics:	4 A1
MW:	65.1 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]