

Product datasheet for **MG219348**

Pdp1 (NM_001098230) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdp1 (NM_001098230) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pdp1
Synonyms:	Gm1024; Ppm2c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219348 representing NM_001098230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTGTGTGTCCCGGGCCAGACGAATTGGAATCCAGTCAGAACGTCCAGTCTGCCACTGTTCTCTG
 ATGCCATGCCAGACCAACTCAACTGTTTTTCTCTCGTCCGTAAGTGTGAAGTGAAGCAGCAATCTATGG
 CACTGCATGTTACTGCCACCACAAACATCTCTGCTGTTACCACCATAACCTCCTCAGAATCGTCTGAGG
 TACACACCCCATCCTGCATATGCTACCTTTTGTAGGCCACGGGAGAACTGGTGGCAGTATACTCAAGGAA
 GGAGATACGCTTCTACACCGCAGAAATTTACCTCACACCTCCACAAGTCAACAGCATCCTTAAAGCTAA
 TGAATACAGCTTCAAAGTACCAGAATTTGATGGCAAAAATGTCAGTTCATTCTTGGATTGACAGCAAT
 CAGCTGCCTGCAAATGCACCCATAGAGGACCGGAGAAGTGCAGCAACCTGCTGCAGACCAGAGGGATGC
 TCTTGGGGTTTTTGTGGTTCATGCAGGCTGTGCTTGTCCAGGCAGTCAGTGAAGACTCTTCTATTA
 TATTGCTGTTTCTTGTGCCCATGAGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGTGGTCGGGCA
 CTGCTACCTATCCTTCAGTGGCACAAGCACCCCAATGATTACTTCAGTAAGGAGGCGTCCAAATTGTATT
 TCAACAGCTTGAGGACTTACTGGCAAGAACTCATAGACCTCAATACTGGAGAATCAGCTGATATTGATGT
 TAAGGAGGCTTTAATTAATGCTTTCAAGAGACTCGATAATGACATTTTCATTGGAGGCTCAAGTTGGTGT
 CCTAATCTTTTTCTAAATACCTGGTGTCTCGGGTAGCATTCTTCTGGGGCTACTGCTTGTGTGGCCATG
 TAGATGGTGTGACCTCCATGTGGCTAACACTGGTGTAGTAGAGCCATGCTAGGTGTGCAAGAAGAAGA
 TGGCTCTTGGTCAGCAGTCACACTCTCTAATGACCACAATGCTCAGAATGAAAGAGAAGTAGAGCGTCTG
 AAAGTGGAACACCAAAAAATGAGGCCAAGAGCGTGGTAAAGCAGGACCGGCTGCTTGGCTTGTGATGC
 CCTTTAGGGCTTTTGGAGATGTAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTATAGAGTCTGG
 CCCAGACCAGTTGAATGACAATGAATACACCAAGTTTATCCCTCCTAACTATCATACACCTCCTTATCTT
 ACTGCTGAGCCAGAGGTAACCTTATCACAGATTAAGGCCACAGGATAAATCCTAGTGTAGCAACTGATG
 GTTTGTGGGAGACTATGCATAGACAGGATGTGGTTAGGATTGTGGGTGAATACTTAACTGGTATGCATCA
 CCAACAGCCAATAGCAGTTGGTGGGTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGG
 AGAGCAAAGATGTCATCAGTGTGAGGATCAGAATGCAGCAACCCATCTCATTCCGCATGCTGTAGGCA
 ATAATGAATTTGGGGCTGTTGATCATGAACGACTCTCTAAATGCTTAGTCTTCTGAAGAGCTTGTCTCG
 GATGTATAGAGATGACATTACAATCATTGTAGTTCAGTTCATTCTCATGTTGTAGGGGCATACCAAAAC
 CAGGAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219348 representing NM_001098230
 Red=Cloning site Green=Tags(s)

MCVCPGPRRIGIPVRTSSLPLFSDAMPAPTQLFFPLVRNCELSRIYGTACYCHHKHLCCSPPIYQNRLLR
 YTPHPAYATFCRPRENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKNVSSILGFDSN
 QLPANAPIEDRRSAATCLQTRGMLLGVFDGHAGCACSQAVSERLFYYIAVSLLPHETLLEIENAVESGRA
 LLPILQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESADIDVKEALINAFKRLDNDISLEAQVGD
 PNSFLNYLVLRVAFSGATACVAHVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTLSDHNAQNERELERL
 KLEHPKNEAKSVVKQDRLLGLLMPFRAFQVDFKWSIDLQKRVIKESGPDQLNDNEYTKFIPPNYHTPPYL
 TAEPEVYHRLRPQDKFLVLAIDGLWETMHRQDVVRIVGEYLTGMHHQPIAVGGYKVTLLGQMHGLLTER
 RAKMSSVFEDQNAATHLIRHAVGNNEFGAVDHERLSKMLSLPEELARMYRDDITIIIVVQFNSHVVGAYQN
 QEQ

TRTRPLE - GFP Tag - V

Restriction Sites:

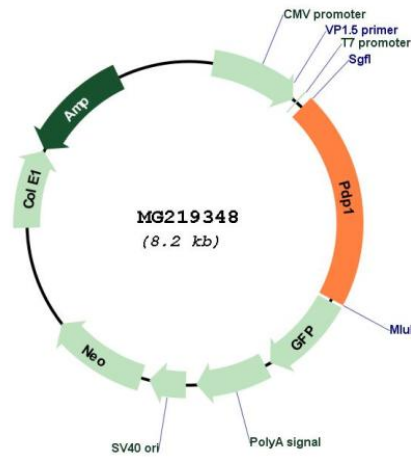
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001098230
 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:	<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:	NM_001098230.1 , NP_001091700.1
RefSeq Size:	4233 bp
RefSeq ORF:	1692 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]