

Product datasheet for **MG208598**

Pdp1 (NM_001033453) Mouse Tagged ORF Clone

Product data:

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

>MG208598 representing NM_001033453
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCAGCACCAACTCAACTGTTTTTCTCTCGTCCGTAAGTGTGAAGTGAAGCAGAATCTATGGCACTG
 CATGTTACTGCCACCACAACATCTCTGCTGTTACCACCATACATTCTCAGAATCGTCTGAGGTACAC
 ACCCCATCCTGCATATGCTACCTTTTGTAGGCCACGGGAGAACTGGTGGCAGTATACTCAAGGAAGGAGA
 TACGCTTCTACACCGCAGAAATTTACCTCACACCTCCACAAGTCAACAGCATCCTTAAAGCTAATGAAT
 ACAGCTTCAAAGTACCAGAAATTTGATGGCAAAAATGTCAGTTCATTCTTGGATTTGACAGCAATCAGCT
 GCCTGCAATGCACCCATAGAGGACCGGAGAAAGTGCAGCAACCTGCTGCAGACCAGAGGGATGCTCTTG
 GGGTTTTTGTGGTGCAGGCTGTGCTTGTCCCAGGCAGTCAAGTAAAGACTCTTCTATTATATTG
 CTGTTTCCTTGTGCCCATGAGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGTGGTCCGGCACTGCT
 ACCTATCCTTCAGTGGCACAAGCACCCCAATGATTACTTCAGTAAGGAGGCGTCCAAATTTGATTTCAAC
 AGCTTGAGGACTTACTGGCAAGAACTCATAGACCTCAATACTGGAGAATCAGCTGATATTGATGTTAAGG
 AGGCTTTAATTAATGCTTTCAAGAGACTCGATAATGACATTTTCATTGGAGGCTCAAGTTGGTGTATCTAA
 TTCTTTTCTAAATACCTGGTGTCTCGGGTAGCATTTTCTGGGGCTACTGCTTGTGTGGCCCATGTAGAT
 GGTGTTGACCTCCATGTGGCTAACACTGGTGTAGTAGAGCCATGCTAGGTGTGCAAGAAGAAGATGGCT
 CTTGGTCAAGCAGTCACTCTCTAATGACCACAATGCTCAGGATGAAAGAGAAGTGAAGCGTCTGAAACT
 GGAACACCCAAAAAATGAGGCCAAGAGCGTGGTAAAGCAGGACCGGCTGCTTGGCTTGTGATGCCCTTT
 AGGGCTTTTGGAGATGTAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGTAGAGTCTGGCCAG
 ACCAGTTGAATGACAATGAATACACCAAGTTTATCCCTCCTAACTATCATACACCTCCTTACTTCTTACTG
 TGAGCCAGAGGTAACCTTATCACAGATTAAGGCCACAGGATAAAATCCTAGTGTAGCAACTGATGGGTTG
 TGGGAGACTATGCATAGACAGGATGTGGTTAGGATTGTGGGTGAATACTTAACTGGTATGCATACCAAC
 AGCCAATAGCAGTTGGTGGGTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAGC
 AAAGATGTCATCAGTGTGGAGATCAGAAATGCAGCAACCCATCTCATTCCGCATGCTGTAGGCAATAAT
 GAATTTGGGGCTGTTGATCATGAACGACTCTCTAAAATGCTTAGTCTTCTGTAAGAGCTTGTCTGGATGT
 ATAGAGATGACATTACAATCATTGTAGTTCAGTTCAAATCTCATGTTGTAGGGGCATACCAAAACCAGGA
 ACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208598 representing NM_001033453
 Red=Cloning site Green=Tags(s)

MPAPTQLFFPLVRNCELSRIYGTACYCHHKHLCCSPPIYQNRRLRYTPHPAYATFCRPRENWWQYTQGRR
 YASTPQKFYLPVQVNSILKANEYSFKVPEFDGKNVSSILGFDSNQLPANAPIEDRRSAATCLQTRGMLL
 GVFDGHAGCACSQAVSERLFYYIAVSLLPHETLLEIENAVESGRALLPILQWHKHPNDYFSKEASKLYFN
 SLRITYWQELIDLNTGESADIDVKEALINAFKRLDNDISLEAQVGDPNFLNYLVLRVAFSGATACVAHVD
 GVDLHVANTGDSRAMLVQEEDGSWSAVTLSDHNAQDERELERLKLHPKNEAKSVVKQDRLLGLLMPF
 RAFGDVFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAPEVTYHRLRPQDKFLVLTADGL
 WETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRAKMSSVFEDQNAATHLIRHAVGNN
 EFGAVDHERLSKMLSLPEELARMYRDDITIIIVQFNHSHVVGAYQNQE

TRTRPLE - GFP Tag - V

Restriction Sites:

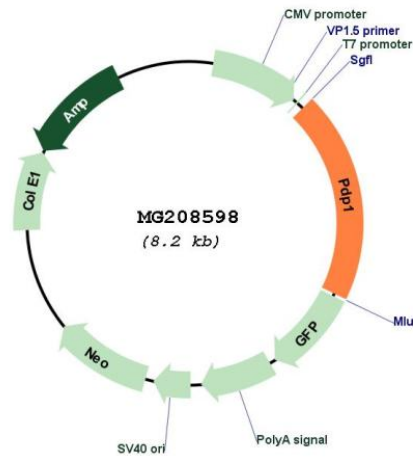
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_001033453
ORF Size:	4195 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_001033453.1
RefSeq Size:	1882 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]