

Product datasheet for **RR208337**

Pdp2 (NM_145091) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pdp2 (NM_145091) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pdp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208337 representing NM_145091
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAAGTACTGCGTCCTACCGGATCTTCAATTTTGAAGGAATCGATTGCTGTGTTACGAGGGGGTA
 GACGCTTGTACTCCAGGGCAGCCACGAGTAGGAATCAAGTGAAATGGAGGCTCTTTCTCCGCATCATT
 GGCCGTGAACGACAGTTCTCCACATGGTGGCTTTGCTCTGCGGAAAGCTTACAGACACACATCAACCGAG
 GAAGAGGATTTCCACTTGCAGCTCAGCCCCGAACAGGTCAGTGACCTGCTCCGAGCTGGCGAGTCATCCC
 ACAAGGTTCTGGATTTCAACAGCGGAGTTCCAAATTCAGTGTTAAGGTTTGAAGAGCAACAGTTGGCGGC
 CAATCCCCAGTGAAGACCGACAAGGTGTGGCTTCTGCGTGCAGACGAGGGGGACGATGTTTGGTATT
 TTTGATGGGCATGGTGGCCATGCGTGTGCACAGGCGGTGAGCGAGAGGCTTTTCTATTACATGGCGGTGT
 CCCTCATGTCCATAAGACCTTGGAGCAGATGGAGGAAGCCATGGAGAACATGAAGCCTTTGCTGCCAT
 CCTGCAGTGGCTCAAGCACCCCGAGACAGTATTATAAAGATATCACATCGGTTTCATCTGGACCACCTC
 CGAGTCTATTGGCAGGAATCCTTGACCTACATATGAAAACGGGACTAAGCACTGAAGAGGCATTGATGT
 ACTCCTCCAGAGACTGGACTCCGACATCTCGTAGAAAATTCAGGCTCCTCTGGAAGATGAGGTAACGAA
 GAATTTATCCCTCCAGGTTGCTTTTCTGGGGCAGACGCTGCATGGCCACGTCGACGGAGTTCACCTG
 CACATAGCAAATGCTGGCGACTGCCGAGCTATCCTGGGTGTCCAGGGAGACAATGGAGCGTGGTCATGTT
 TACCTCTTACCTGTGACCACAATGCCTGGAATGAGGCAGAGCTGTCCCGGCTTAAGAGAGAACACCCCGA
 GTCTGAGGACAGGACACTCATATAGATGACAGGCTGTGGGTGTCTCCTACCTGCAGGGCCTTCGGG
 GACGTCCAGCTAAAATGGAGTAAAGAGTTGCAGCGGAACGTCCTAGAGAGGGGATTTGATACCGAGGCC
 TCAACATCTACCAGTTTACCCCGCCCACTACCACACTCCACCTACCTGACTGCTAAGAGGAGGTCAC
 ATACCACAGGCTTAGGCCCAAGATAAGTTCTCGTGTGCGCTCAGATGGCCTCTGGGACATGCTGGAC
 AATGAGGATGTGGTAAGGCTGGTGGTGGGGCACCTGTCCAAGGTCGGTCAACGAGAAGCCAGCCCTGGATC
 AAAGACCAGCCAACCTGGGCCACATGCAGAGTCTGCTGCTGCAGAGGAAAGCCAGCGGACTCCATGCAGC
 TGACCAGAATGCAGCCACACATCTGATCAGACATGCCATCGGGAGCAACGAGTATGGGAAATGGAGCCA
 GAGCGTCTGGCTGCCATGTTGACGCTGCCAGAGGATGTGGCCAGGATGTACCGGGATGACATCACTGTCA
 TGGTGGTGTTTTTAACTCAGAATCAATTGATACCTATTTAAGGAGGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208337 representing NM_145091
 Red=Cloning site Green=Tags(s)

MSSTASYRIFNFARNRIAVLRGGRRLYSRAATSRNQVKWRLFSPASLAVNDSSPHGGFALRKAYRHTSTE
 EEDFHLQLSPEQVSDLLRAGESHVKVLDNFNSGVPNSVLRFEENQLAANSPVEDRQGVASCVQTRGTMFGI
 FDGHGGHACAQAVSERLFYMAVSLMSHKTLEQMEEAMENMKPLLPILQWLKHPGDSIYKIDITSVHLDHL
 RYVWQELLDLHMETGLSTEEALMYSFQRLDSDISLEIQAPLEDEVTKNLSLQVAFSGATACMAHVDGVHL
 HIANAGDCRAILGVQDNGAWSCLPLTCDHNAWNEAELSRKREHPESEDRTLIIIDRLLGVLLPCRAFG
 DVQLKWSKELQRNVLERGFDTEALNIYQFPPHYHTPPYLTAKEVITYHRLRPQDKFLVLASDGLWMDLD
 NEDVVRLVVGHLKVGHPALDQRPANLGHMQSLLLQRKASGLHAADQNAATHLIRHAIKSNEYGEMEP
 ERLAAMLTLPELVARMYRDDITVMVVFNFSESIDTYFKEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

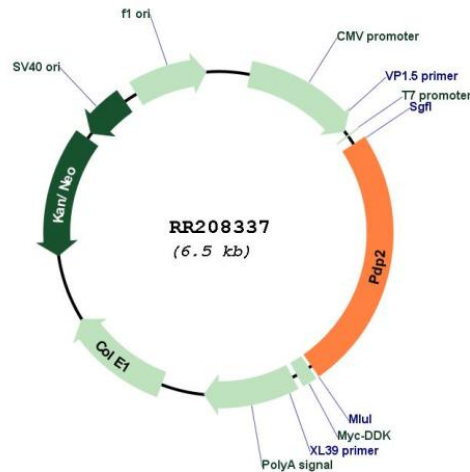
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_145091

ORF Size: 1590 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_145091.4](#), [NP_659559.2](#)

RefSeq Size: 2116 bp

RefSeq ORF: 1593 bp

Locus ID: 246311

UniProt ID: [O88484](#)

Cytogenetics: 19p14

MW: 59.7 kDa

Gene Summary: catalyzes the dephosphorylation and reactivation of the pyruvate dehydrogenase complex; plays a role in carbohydrate utilization [RGD, Feb 2006]