

Product datasheet for **RG207071**

PDP2 (NM_020786) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDP2 (NM_020786) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDP2
Synonyms:	PDPC 2; PPM2B; PPM2C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207071 representing NM_020786
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAAGTACTGTGTCCTACTGGATCTTAAATCTACAAGAACAGCATTGCCACATTGCAAGGGGGTA
 GACGCTTATACTCCAGGTATGTCTCAAATAGGAATAAAATGAGGCTCTTTCCCGGTGCCACC
 CACCCTAAACAGTTCCCATGTGGTGGCTTACTCTGTGCAAAGCCTACAGACACACATCAACAGAGGAA
 GATGATTTTCACTTGCAACTCAGCCCTGAGCAGATAAAAGAGTCTCGAGCTGGCGAGACAACCCACA
 AGATTCTTGACCTTGAAGCAGAGTCCCAAATCAGTGTGCGGTTTGGAGCAACCAGCTGGCTGCCAA
 TCCCCAGTGGAGGACCGCGAGGTGTAGCCTCTGCCTGCAAACCAATGGACTGATGTTTGGCATCTTC
 GATGGACATGGTGGTATGCATGTGCCAAGCAGTGGAGGAGGCTCTTCTACTATGTGGCAGTGTCCC
 TGATGTCCACCAGACCCTGGAGCACATGGAGGGAGCTATGGAAGCATGAAACCCTTGCTGCCATCCT
 GCATTGGCTCAAGCACCAGGGGACAGTATCTACAAGGATGTCACATCTGTGCATCTTGACCACCTCCGT
 GCTATTGGCAGGAAGCTGTTGATTTGCACATGGAAATGGGACTAAGCATTGAAGAAGCATTAAATGACT
 CCTTCCAGAGACTGGATTCTGACATCTCGCTGGAATCCAGGCCCCCTGGAAGATGAGGTGACAAGGAA
 CCTGCTACTCCAGGTTGCTTCTCTGGGGCAACAGCTTGCATGGCCCATGTTGATGGAATCACTTGAC
 GTGGCAAATGCTGGTACTGCCGAGCCATCCTTGGTGTCCAAGAGGACAAATGGCATGTGGTCTTGTCTGC
 CCCTTACACGTGACCACAATGCCTGGAACCAGGCCGAGCTGTCCCGGCTAAAGAGGGAGCACCCCTGAGTC
 AGAGGACAGGACGATCATCATGGAGGACAGGCTACTGGGCGTCTCATCCCCTGCAGGGCCTTTGGGGAT
 GTTCAGCTGAAGTGGAGTAAAGAGTTGCAGCGCAGCATTCTGGAGAGGGGCTTCAATACCGAGGCCCTCA
 ACATTACCAGTTACACCCCCACACTACTACACTCCACCCTACCTGACTGCTGAGCCTGAGGTCAGGTCAG
 CCACAGGCTGAGCCCCAGGATAAGTTCCTTGTGCTGGCCTCAGATGGCCTGTGGGACATGCTGAGCAAT
 GAGGACGTGGTAAGGCTGGTGGTGGGGCACCTGGCTGAGGCAGATTGGCAAGACAGACCTGGCCAGA
 GACCCGCCAATTGGGGCTCATGCAGAGCCTGCTGCTGCAGAGGAAAGCCAGCGGGCTCCACGAGGCTGA
 CCAAAATGCAGCCACGGGCTGATCAGACATGCCATCGGGAACAATGAGTATGGGGAGATGGAGGCAGAG
 CGGCTGGCGGGATGCTGACATTGCCAGAGGACTTGGCGAGGATGTACAGGGATGATCACTGTCAGT
 TGGTGTATTTAACTCAGAATCAATCGGTGCATATTACAAGGGGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207071 representing NM_020786
 Red=Cloning site Green=Tags(s)

MSSTVSYWILNSTRNSIATLQGGRRLYSRYVSNRNKWKWRLF SRVPPTLNSSPCGGFTLCKAYRHTSTEE
 DDFHLQLSPEQINEVLRAGETTHKILDLESRVNSVLRFEQNLAANSPVEDRRGVASCLQTNLMFGIF
 DGHGGHACAQAVSERLFYVAVSLSMHTLEHMEGAMESMKPLLPILHWLKHGDSIYKDVTSVHLDHLR
 VYWQELLDLHMENGLSIEEALMYSFQRLSDSISLEIQAPLEDEVTRNLSLQVAFSGATACMAHVDGIHLH
 VANAGDCRAILGVQEDNGMWSCLPLTRDHAWNQAEL SRLKREHPESEDRTIIMEDRLLGVLIPCRAFGD
 VQLKWSKELQRSILERGFNTEALNIYQFTPPHYTTPPYL TAEPEVTYHRLRPQDKFLVLASDGLWMLSN
 EDVVRLVVGHLAEADWHKTDLAQRANLGLMQSLLLQRKASGLHEADQNAATRLIRHAIGNNEYGEMAE
 RLAAMLTPEDLARMYRDDITVTVVVFNSESIGAYYKGG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020786

ORF Size: 1587 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_020786.4](#)

RefSeq Size: 3830 bp

RefSeq ORF: 1590 bp

Locus ID: 57546

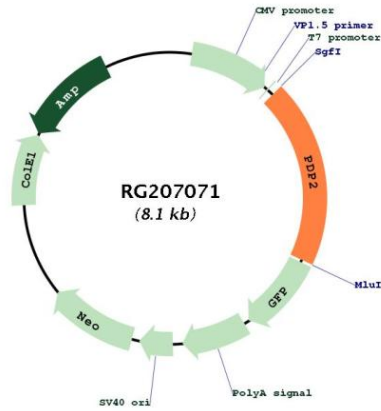
UniProt ID: [Q9P2J9](#)

Cytogenetics: 16q22.1

Protein Families: Druggable Genome, Phosphatase

Gene Summary: This gene is a mitochondrial protein that functions as a phosphatase and is involved in the enzymatic resetting of the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG207071