

Product datasheet for **MR217047**

Pdpr (NM_198308) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Pdpr
Synonyms:	4930402E16Rik; AU018056; mKIAA1990
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >MR217047 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTTACCGGTTGCTCTCTATTGTGCAAAGACAAAGGACTAGCCCAGGATGGCAGACCTGGTCATCAG
CGAGAAGCAGCACGTCCACTGCGGAGGCACATTCTATTGCTCTGCCTGCCAGGCCAGGTGGTCATCTG
TGGAGGTGGAATCATGGGTACATCCGTGGCCTATCACCTCTCCAAAATGGGATGGCAAGATATTGTCCTT
TTGGAGCAGGGCAGGCTGGTGCTGGCTCAACAAGGTTCTGTGCTGGCATCCTAAGCACTGCTAGGCATT
CAAGCGTTGAGCAGAAGATGGCTAACTATTCAAACTCTACCATCAGTTAGAACAAGAACAGGGAT
CCAAACAGGTTACTTAAGGACAGGCTCAATCTCTGGCCAGACTCAGGACCGGTTGATCTCTCTGAAG
CGTATCAACTCAAGGCTGAATGTTGTAGGTATCCCTTCTGAGATCATCTCCCCAAGAAAGTGGCTGAAC
TTCACCTCTCCTCAATGTGCATGATCTGGTGGGGCCATGTACGTTCTGAGGATGCAGTAGTGTCTC
TGCTGATGTGGCTCTGGCCCTGGCAAGTCTGCCTCCAGAATGGTGTTCAGATTTATACCGGACAAGT
GTTCTTCACGTAAGTCAAAAAAGGTCAGTTACTGGTGTGGAGACAGACAAAGGACAGATCGAATGCC
AGTATTTTGTCAACTGTGCCGGGCACTGGGCATATGAGCTGGGTCTGTCCAACGAGGAGCCGCTTAGTAT
CCCGCTACACGCTGTGAACACTTCTACCTTCTGACTCGTCCCTGGGACACCCCTCTGCAGAGCAACACA
CCAACCATTTGGATGCTGATGGAAGAATTTACATTAGGAAGTGGCAGGTTGGCATCTTGTCTGGAGGCT
TTGAGAAGAACCCCAACCTATTTTCACTGAAGGCAAGAACAGTTGGAAATTCAGAACCTTCGTGAAGA
CTGGGATCACTTTGAGCCCTGCTGAGTTCCTCTCGTAGGATGCCAGCATTGGAGACTCTGGAGATT
TTGAAGTTGGTGAATGCCCTGAGACCTTCACACCAGACATGAAGTGCATCATGGGCGAGTCTCTGTAG
TACAGGGCTACTTTGTCTGGCAGGATGAAGTCTGCTGGCCTGTCTGGTGGGAGAGCTGGAAAGTT
CCTAGCAGAATGGATGGTATATGGTTATCCCTCTGAAAATGTCTGGGAGTTGGATTTGCAGCGCTTCGGA
GCCCTCCAGAGCAGCCGACCTTTCTGCGCCACCGGGTCTGGAAGTTATGCCTCTGATATATGATCTGA
AGGTTCCCGTTGGGATTTCCAGACTGGAAGGCAGTTACGTACATCTCTCTTTATGACCGGCTGGATGC
TCAAGGAGCCAGATGGATGGAGAAACATGGATTTGAGAGGCCAAAGTACTTTGTCCACCAACAAGGAC
CTTCTTGCATTAGAAGCAGAGCAAGACTTTCTACAAGCCAGATTGGTTTGATATTGTGGAGTCAGAAGTCA
AATGCTGCAAGGAAGCTGTGTGTGTCATTGACATGTCTCTTTCAAAAATTTGAAATAACTTCCACTGG
GGACGAGGCGTTAGAAAGTCTGCAGTACCTTTTCTGCAATGACCTTGATGTACCTGTAGGCCACATCGTT
CATACTGGCATGCTCAATGAATATGGAGGATACGAAACGACTGCAGCATCGCACGCCTGACCAACGCA
GTTTCTTTATGATTTCTCAACCGATCAGCAGGTCCACTGTTGGGCTGGCTTAACAAATACTTGCCGAA
AGACAGCAACTTGCTGCTGGAGGACGTCACTGGAAATACAGCCCTCAATCTGATTGGCCCTCGAGCC
GTGGATGTGCTATCTGAGCTGTCTATGCCCTATGACTCCAGATCACTTTCCAACGCTCTTCTGCAAGG
AGATGAGTGTGGCTATGCAATGGGATCCGGGTGATGAGTATGACGCACACGGGAGAGCCAGGCTTCAT
GCTGTATATCCCATAGAGTACGCTCTGCATGTCTACAATGAGGTGATGAGTGTGGACAGAAATATGGA
ATCCGGAATGCTGGGTATTATGCCCTCAGAAGTCTCCGAATTGAGAAGTTTTTGTCTTCTGGGTCAGG
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CTTCATTGGTCGGATGCCCTGCTGCAGCAGAAGCAGACCGGGTATATAAGCGCTTGCTATGTTTATT
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ATGCTGGCAAGACCACAGTAGTGCCTATAGCTACACACTGGAGGCCATGTATGCCTGGGTATGTACA
CAATTTTCTGAGGACAGTGGGAAGAGCAGGTGGTGACAACAGATTTTCATCAACCGAGGAGAATATGAA
ATTGACATTGCAGGACATCGGTTTCAGGCCAAGGCCAAGCTCTACCCTGTCACTCTTTTTTCACTCACA
AGCGTAGAAAGGACGATGTGGAGCTGAGCGACTTTCATGGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217047 protein sequence
 Red=Cloning site Green=Tags(s)

MLYRLLSIVQRQRTSPGWQTWSSARSSTSTAEHSIALPAQAQVVICGGGIMGTSVAYHLSKMGWQDIVL
 LEQGRLAAGSTRFCAGILSTARHSSVEQKMANYSNKLYHLEQETGIQTGYLRTGSISLAQTQDRLISLK
 RINSRLNVVGIPSEIISPKKVAELHPLLNVHDLVGAMYVPEDAVVSSADVALALASAASQNGVQIYDRTS
 VLHVLIKKGQVTGVETDKGQIECQYFVNCAGQWAYELGLSNEEPLSIPLHACEHFYLLTRPWDTPQSNT
 PTIVDADGRIYIRNWQGGILSGGFEKNPKPIFTEGKNQLEIQNLREDWDHFEPLLSSLLRRMPALETLEI
 LKLVNCPETFTPDMKCIMGESPVVQGYFVLAGMNSAGLSLGGGAGKFLAEWMVYGYPSENVWELDLQRFG
 ALQSSRTFLRHRVMEVMPLIYDLKVPRWDFQTGRQLRTSPLYDRDAQGARWMEKHGFERPKYFVPPNKD
 LLALEQSKTFYKPDWFDIVESEVKCKEAVCVDMSSFTKFEITSTGDEALESQYLCNDLDVPVGHIV
 HTGMLNEYGGYENDCSIALRTKRSFFMISPTDQQVHCWAWLNKYLPKDSNLLLEDVTWKYTALNLIGPRA
 VDVLSSELSYAPMTPDHFPTLFCKEMSVGYANGIRVMSMTHTGEPGFMLYIPIEYALHVYNEVMSVGQKYG
 IRNAGYYALRSLRIEKFFAFWGQDLNLTTPLECGGESRVKLEKGIDFIGRDALLQQKQTVYKRLAMFI
 LDDHDTDLDPWWGPEIYRNGKYAGKTTSSAYSYTLERHVCLGYVHNFSEDSGEEQVVTDFINRGEYE
 IDIAGHRFQAKAKLYPVTFFTHKRRKDDVELSDFHGK

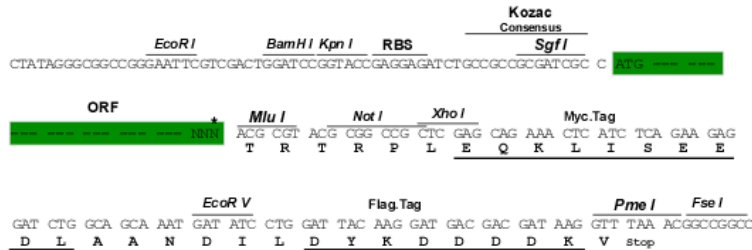
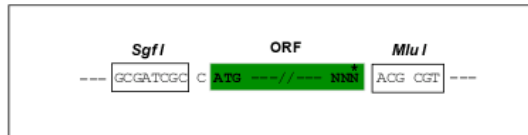
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_198308

ORF Size: 2634 bp

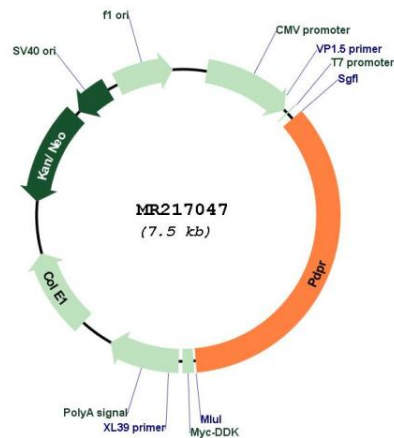
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_198308.1, NP_938050.1</u>
RefSeq Size:	2904 bp
RefSeq ORF:	2637 bp
Locus ID:	319518
UniProt ID:	<u>Q7TSQ8</u>
Cytogenetics:	8 E1
MW:	99.2 kDa
Gene Summary:	Decreases the sensitivity of PDP1 to magnesium ions, and this inhibition is reversed by the polyamine spermine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217047