

## Product datasheet for **RR216782**

### **Parpbp (NM\_001166676) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Parpbp (NM_001166676) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Parpbp
Synonyms:	AROM; PARI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR216782 representing NM\_001166676  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAGTGGTCGACCACTATGAAGACATTAGGAAAACATACGATGATTTCTTGAAGAATAGCAATACAC  
 TAGATCTGATTGATGTTTATAAAAAATGTAGCATTGACTTCTAATTGTGAGAAAACACATGATATCCTC  
 TATTCACTACGGGACTTTCTATCTGGCACAGAGTGTGCAGTAAATGATGAAAATATCCTCATAGCCCA  
 GCGTCACCAAGTAAAATGCAGCCAGAATGACAAACAGGTGCGGCTGTTGGCAAAGAAAATTTCTTTCTG  
 ATTTGAGCCTCTTAGTGAATCAAAGAATGACCTGGCTCTGGCTCAAATCTCAACACCCCTGACCGAGG  
 ACTGGGAAGGGAGGCCTTACCAACTTGAAGCATGCTGCCCGAGAGAAAACAGTTGTCTATGTTTCTGATG  
 GCCACATCATTTATTAGGACGTTAGAGCTCGGAGGAAAGGATATGCACCCACCACATCAGATCCTCTGT  
 GGGCACATGTAAGGGCTGTCTGCTTTTGTAAATTTTCATTGACAAGCTAAATGAAATTTCTGGAGAGGT  
 ACCAAATCCAAGCCTTGGGGCGGTCCGATATTATCGGCGATAAGGACGCAGCTGATCAAAGGCCACAGC  
 AGCGGGGAGCCTTTTATAAAGCAGTAGAGGAAGTTGTTCAAGATTTGAATTTGAGGATTAATAATA  
 TTAATTCTCAAGAAGGTGTAAGTGTGACGCGCCACCAACATCAGTCTGTCCCGCCAAAATCTTTTGGCAT  
 AAACCATGATACCGCATACTGTGGAAGAGATGCTGTGAAAATTTACTGGTTCTTTTGGATGAAGACGCA  
 GCCAGTGTCTCTACCAGAAAATAAGCAGAGCTTCTGTACAATGACCAAAGTACAGCTCCTCACGGTGGAG  
 CGTCTGTCTTACACTCTTTAGGTCTCCACACAAGTGAAGAGTACACCAAGTAAACCTCTCAGAGAGCG  
 AATCCACACGTCCTGCAAGCAGAGAAAATAAGCAGATGAGGCAGACATTAATTAGATCACAGTTTGTCT  
 TGTACTTATAAAGATGACTGCATAATGAGCAAGAGTAAATGGAATGTTAATTCCTCATCAAAGCCGCTGT  
 CTGCTCTTCGCTTAGAGAACGATGTCTCTGAGGGAGCACAGCCGCTGTTGGGAAAAGCCAGACTGAAAC  
 GAGTTCTGAAAATGTGCATGTGGACAGAAAGTAAAGGATGACAAAGGACCGAGGAAGTCTACTAAACGGAAG  
 CTAGCGAAGAGCAAGCAGCCGGGTGTCAGGGAGGATTTCACTGCGATCAGGGAGATGAGCTGTACCAAC  
 CCAAGAATGTTAAGATCCTTAAAGTGCCAGTACTCTCACAGGAAAGCTGGTGGCAAACAGCCCCAGG  
 AGCAAGGGGCAACAGGTGCACCACCAAGGACAAGCTGATCCCTGGCCAGACCAAGCTGACACGGTTTTTT  
 ATGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216782 representing NM\_001166676  
 Red=Cloning site Green=Tags(s)

MKVVDHYEDIRKTYDDFLKNSNTLDLIDVYKKSIMTSNCEKHMISSIQLRDFLSGTECAVNDENPHSP  
 ASPVKCSQNDKQVRLAKKIFLSYLLVNSKNDLALAQILNTPDRGLGREAFNLKHAAREKQLSMFLM  
 ATSFIRTLELGGKGYAPPPSDPLWAHVKGLSAFVNFIDKLEILGEVNPNSLAGGRILSAIRTQLIKGHS  
 SGEPFYKAVEEVVQDLNLRINKNIINSQEGVTVSATNISPVPKSFAINHDTAYCGRDAVKILLVLLDEDA  
 ASAPTRNKAELLYNDQSTAPHGGASVLTFRSPTQVKSTPVKPLRERIHTSLQAEKNKQMRQTLIRSQFA  
 CTYKDDCIMSLSKWNVNSSSKPLSALRLENDVSEGAQPSVGKARLETSSENVHVDKSKDDKGRKSTKRK  
 LAKSKQPGVREDIHCDDQDELQPKNVKILKVPSSHRKAGGKLAPGARGNRCTTKDKLIPGQTKLTRF  
 ML

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

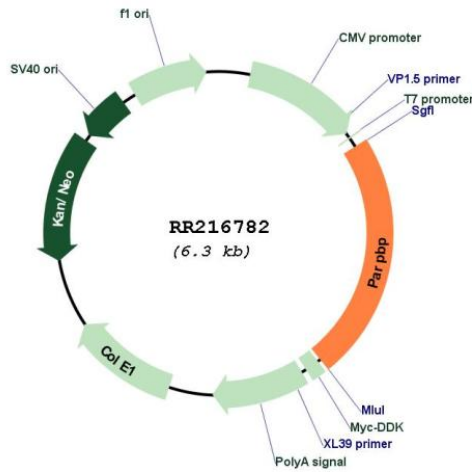
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001166676

ORF Size: 1476 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\\_001166676.1](#), [NP\\_001160148.1](#)

**RefSeq Size:** 4427 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 100310874

**UniProt ID:** [Q9EQ10](#)

**Cytogenetics:** 7q13

**MW:** 54.5 kDa

**Gene Summary:** Required to suppress inappropriate homologous recombination, thereby playing a central role DNA repair and in the maintenance of genomic stability. Antagonizes homologous recombination by interfering with the formation of the RAD51-DNA homologous recombination structure. Positively regulate the poly(ADP-ribosyl)ation activity of PARP1; however such function may be indirect (By similarity). Binds single-strand DNA and poly(A) homopolymers.[UniProtKB/Swiss-Prot Function]