

Product datasheet for **RR212818**

Pnkp (NM_001004259) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pnkp (NM_001004259) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pnkp
Synonyms:	MGC94448
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212818 representing NM_001004259
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGAGCTTGGATCCAGGGCCGCTGTGGCTCCAGAGCCCCACCGTGGGCCACCCCTATATTCC
 TGCCGTCGGATGGCCAAGCCCTGGTTCTCGGTCGGGGACCCCTTACCCAAGTGATGGACCGAAGTGCTC
 CCGAAACCAAGTGGAGCTGATTGCAGACCTGAAACCCGACAGTGGCAGTGAAACAGCTGGGTGTTAAC
 CCATCAACTGTTGGGGTCCAGGAGTTGAAGCCAGGGGTGTCTGGCTCTCTAAGCGTGGGGGATGCTCTTT
 ATCTGGTTAATGGCCTATATCCCCTGACCCTGCGCTGGGAAGAGATCAGCACACCAGGATCCCCGCCAGA
 CACTCCACCAGGCAATCCTGTGGATCCAGAGGAGGAAAGGATACTGAGCCTCAGAAAAAGCAATGCGG
 AAATCCTCCCCTGGCTGGGAGAGCTTTAAGCAGTTACTGGTGTTCACAGCGTCTGGAGTGAAGCCCCGGG
 GCAAGGTGGCTGCCTTTGACCTAGATGGGACCCATCACCACCCGCTCTGGAAAGTCTTCCCCTAG
 CCCTAGTGACTGGAGATTCTGTACCCAGAGATCCAAAGAAGCTCCAGGAGCTGGCTGCTGAGGGCTAC
 AAGCTGGTAATTCACCAACCAATGGGCATCGGGAGAGGCAAGCTGCCAGCAGAGGTGTTCAAGGCCA
 AGGTGGAAGCTGTATTGGAGAACTAGGGGTCCCATTTACAGTGTGGTGGCAACGCATGCAGGTCTAAA
 CCGAAAGCCAGTGAGTGGCATGTGGGACCATCTGCAGGAGAAGGGCAACGAGGGCATCCCATCTCCATC
 GGGGACAGTGTCTTCGTGGGAGATGCAGCAGGGCGCCAGCCAAGTGGGCCCCAGGGAAGAAGAAAAAGG
 ATTTCTCTGTGCAGACCGCCTGTTTCGCCCTCAATGTTGGCTACCCTTTGCCACTCCTGAAGAGTTCTT
 CCTCAATGGCCAGCAGCCCGCTTTGAGCTTCCAGCTTTGACCCGAGGACCATCTCCAGTGTGGACCC
 CTCTACCTCCCAGAGTCCAGTTTCTCTGAGCCCCAACCCAGAGGTGGTGGTGCAGTAGGATTCCTG
 GGGCCGCAAGTCCACTTTCATCCAGAAGCACCTGGTATCGGCTGGATATGTCATGTGAACAGAGACAC
 GCTGGGCTCATGGCAGCGCTGTGGAACCTATGCCAGGCCGACTGAGGCAGGGGAAGCAAGTCGTGATT
 GATAACCAACCCAGACATCCAAAGTCGGGCTAGGTACATCCAGTGTGCCAAAGATGCTGGTGTGCCCT
 GCCGCTGCTTCAGCTTCTGTGCCACAATAGAGCAGGCACGCCACAACAACAGTTCCGTGAGATGACCGA
 CCCTTCACATGCGCCGGTATCAGACATGGTCATGTTTAGCTACAGGAAGCAGTTTGGCCGCCACACTG
 GCTGAAGGCTTCTGGAGATCCTTCAGGTCCCATTCCGGTTACAGGAGCATCTGGACCCTGCGCTGCAGC
 GACTATACTGCCAGTTTTCCGAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212818 representing NM_001004259
 Red=Cloning site Green=Tags(s)

MSELGSRGRLWLQSPTGGPPPIFLPSDQALVLGRGPLTQVMDRKC SRNQVELIADPETRTVAVKQLGVN
 PSTVGVQELKPGVSGSLVGDVLYLVNGLYPLTLRWEEISTPGSPDTPPGNPVDPEEGKDTEPQKKRMR
 KSSPGWESFKQLLVFTASGVKPRGKVAADFLDGTLITTRSGKVFPTSPSDWRILYPEIPKKLQELAAEGY
 KLVILTNQMGIGRGKLPAEVFKAKVEAVLEKLGVPFQVLVATHAGLNRKPVSGMWDHLQEKNGEPIPI
 GDSVVFVGDAAGRPANWAPGKKKDFSCADRLFALNVGLPFATPEEFFLKWPAARFELPAFDPRTISSAGP
 LYLPESSFLLSPNPEVVAVGFFGAGKSTFIQKHLVSAGYVHVNRDGLGSWQRCVNSQAALRQKQVVI
 DNTNPDIQSRARYIQCAKDAGVPCRCFSFCATIEQARHNNRFREMTDPSHAPVSDMVMFSYRKQFEPPTL
 AEGFLEILQVPFRLQEHLDPALQRLYCFSEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

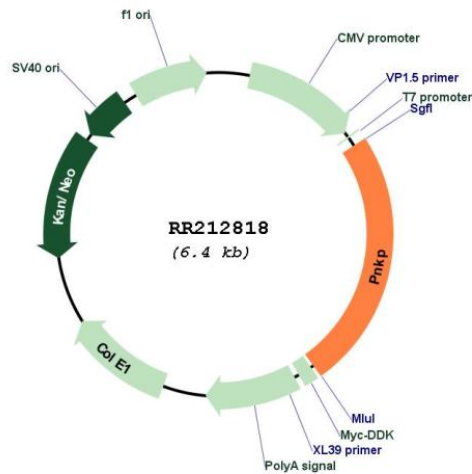
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001004259
ORF Size:	1566 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_001004259.1 , NP_001004259.1
RefSeq Size:	1690 bp
RefSeq ORF:	1569 bp
Locus ID:	308576
Cytogenetics:	1q22
MW:	57.2 kDa
Gene Summary:	human homolog plays a role in non-homologous end joining for DNA double strand break repair [RGD, Feb 2006]