

Product datasheet for **RR204439**

Rnpep (NM_031097) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rnpep (NM_031097) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rnpep
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR204439 representing NM_031097
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAGCAGCGGACCCAGCAGCTGCCACAGCGCGGCCCGCGGCCACTTCACTCGGCACAAGCCGTGG
ACGTGGCCTCGGCCTCCAGTTTCCGCGCCTTCGAGATCCTGCACCTGCACCTGGACCTGCGGGCCGAGTT
GCCTCCGGGCCCGGGTCCGGGGAGCCGCGGACTGAACGGCAAGGCGACGCTGGAAGTGGCGTCTTGCTG
CCGGAGGGCGCCTCGGAGCTGCGGCTCGATTTCGCACAGTTGCCTGGAGGTGATGGCGGCGACCCTGCTGC
GGGGCAGCCCGGAGACCAGCAGCAGCTCACGGAGCCCGTGCCTTCCACACACAGCCCTTCTCGCACTA
TGGCCAGGCCCTGTGCGTGGTCTTCCGAAGCCCTGCTGTGCCCGGAGCGCTTCCGGCTGGAGCTCACC
TACCGCGTCGGAGAGGGACCAGGGTTTGTGGTTAGCTCCTGAGCAGACAGCAGAAAGAAGAAACCTT
TTGTGTATACCCAGGGTCAGGCAGTCTTAAACCGAGCCTTTTTCCCTTGCTTCGACACCCAGCCGTGAA
ATGCACGTATTCGGCTCTTGTGAGTTCCAGATGGCTTACAGCTGTGATGAGTGAAGACATGGGAG
AGGAGAGGACAAATAAGTTCTTCTCCAGATGAGCCAGCCATCCCCTCCTATCTGATAGCTTTGGCCA
TTGGAGATCTGGCTTCAGCTGAGTTGGACCCAGGAGCCGGGTGACAGAGCCCTGCCTGATTGAAGCCGC
CAAGGAGGAATACAATGGGGTCATAGAAGAATTTCTGGCAACAGGAGAGAAGCTTTTCGGACCCTATGTT
TGGGGAAGATATGATTTACTCTTTATGCCACCATCTTCCCGTTTGGAGGAATGGAGAATCCCTGCCTGA
CCTTTGTACCCCGTGCCTGCTAGCAGGGGACCGATCCTTAGCCGACGTCATCATCCACGAGATCTCCCA
CAGTTGGTTTGGAACTGGTCACCAATGCCAACTGGGGGAATCTGGCTCAATGAAGGCTTACCATG
TATGCCAGAGGAGGATCTCCACCATCTGTTTCGGAGCTGCTTACACTTGCTTGGAGGCCCAACGGGGA
GGGCTCTGCTACGGCAGCACATGGATGTGTCTGGAGAGGAAAACCCACTCAACAAGCTTCGGGTGAAGAT
TGAACCAGGTGTTGACCCAGATGACACCTACAATGAAACCCCTACGAGAAAGTTACTGCTTTGTCTCA
TACCTGGCCCATCTGGTGGGTGATCAGGAACAGTTTGACAAGTTTCTCAAGGCCTATGTAGATGAGTTTA
AGTTCCAAAGTATCTTGCTGAAGACTTCTGGAATTCTACCTGGAGTATTTCCCTGAGCTGAAGAAGAA
GGGAGTGGATTCCATCCCAGTTTTGAGTTCAACCGATGGCTGAACACCCCTGGCTGGCCCCCTACCTC
CCCACCTCTCCCTGGGACTCACTCATGAAGCCAGCTGAAGAGCTGGCGGAGCTGTGGGCAGCCTCAG
AGCCAGACATGCAAGCCATCGAGGCTGTGGCCATCTCTACCTGGAAGACCTACCAGCTTGTCTACTTCT
AGATAAGATCCTGCAGAAGTCTCCTCTCCCTCCTGGGAACGTGAAAAAATTGGGGAGACATACCCAAG
ATTTCCAATGCTCAGAATGCTGAGTTACGGCTAAGATGGGGCAAATCATCCTTAAGAATGACCACCAAG
AAGAGTTCTGGAAAGTGAAGACTTCTGCAGAGTCAGGAAAGCAGAAGTACACTCTGCCACTGTACCA
TGCCATGATGGGTGGCAGCGAGATGGCCCGGACCTCGCCAAGGAGACCTTTTCAGCCACCGCTTCCAG
CTCCACAGTAACGTGGTCAACTATGTCCAGCAGATCCTGGCGCCAAGGGCAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204439 representing NM_031097
 Red=Cloning site Green=Tags(s)

MESSGPSSCHSAARRPLHSAQAVDVASASSFRAFEILHLHLDLRAELPPGPGPSRGLNGKATLELRCLL
 PEGASELRLDSSHSCLEVMAATLLRGQPGDQQQLTEPVFHTQPF SHYQALCVVFPKPCAAERFLELT
 YRVGEGPVCWLAPEQTAGKKKPFVYTQQAVERNRAFFPCFDTPAVKCTYSALVEVPDGF TAVMSASTWE
 RRGNKFFFQMSQPIPSYLIALAIGDLASAEVGRSRVTEPLIEAAKEEYNGVIEEFLATGEKLF GPYV
 WGRYDLLFMPPSFPFGMENPCLTFVTPCLLAGDRSLADVIIHEISHSWFNLVTNANWGEFWLNEGFTM
 YAQRRISTILFGAAYTCLAAATGRALLRQHMDVSGEENPLNKL RVKIEPGVDPDDTYNETPYEKGYCFVS
 YLAHLVGDQE QDFLKAYVDEFKFSILAEDFLEFYLEFYPELKKKGVDSIPGFENRWLNTPGWPPYL
 PDLSPGDSL MKPAEELAE LWAASEPDMQAI EAVAI STWKTYQLVYFLDKILQKSPLPPGNVKKLGETYPK
 ISNAQNAELRLRWGQIILKNDHQEEFWVKDFLQSQKQKYLPL YHAMMGGSEMARTLAKETFSATASQ
 LHSNVVNYVQQILAPKGS

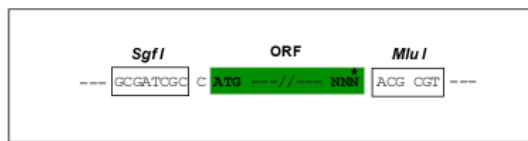
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

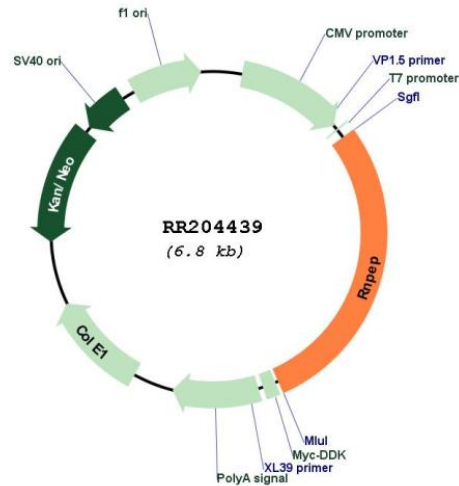
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_031097

ORF Size: 1944 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_031097.1](#), [NP_112359.1](#)
RefSeq Size: 2208 bp
RefSeq ORF: 1947 bp
Locus ID: 81761
UniProt ID: [O09175](#)
Cytogenetics: 13q13
MW: 72.4 kDa
Gene Summary: binds zinc; catalyzes the release of N-terminal Arg and Lys from oligopeptides when P1' is not Pro [RGD, Feb 2006]