

Product datasheet for **RR202788**

Prep (NM_031324) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prep (NM_031324) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prep
Synonyms:	rPop
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR202788 representing NM_031324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCTTCCAGTACCTGACGTGTACCGCAGCAGACCTCAGTACAGGATTATCATGGACATAAAA
 TTTGCGACCCCTTATGCTTGGCTTGAAGACCCAGACAGTGAACAGACAAAGGCTTTCGTGGAGGCACAGAA
 CAAGATCACAGTGCCGTTTCTTGAGCAGTGTCCAATCAGAGGTCTATAAAGGAGAGGATGACTGAGCTG
 TATGACTACCCCAAGTACAGCTGCCACTTCAAGAAAGGAAAGCGGTATTTTTATTTTTACAATACAGGTT
 TGCAGAACCAGCGAGTATTATATGTACAGGACTCCTTAGAGGGGGAAGCCAGAGTGTTCCTGGATCCCAA
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 CCACGCTTCAGTACATCGTGGGCCGAGCCGGAAGCAGAGCAACCCCTGCTCATCCACGTGGACACCAA
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 GCGCGGTGCTGAACATCGAGTGGATCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RR202788 representing NM_031324
 Red=Cloning site Green=Tags(s)

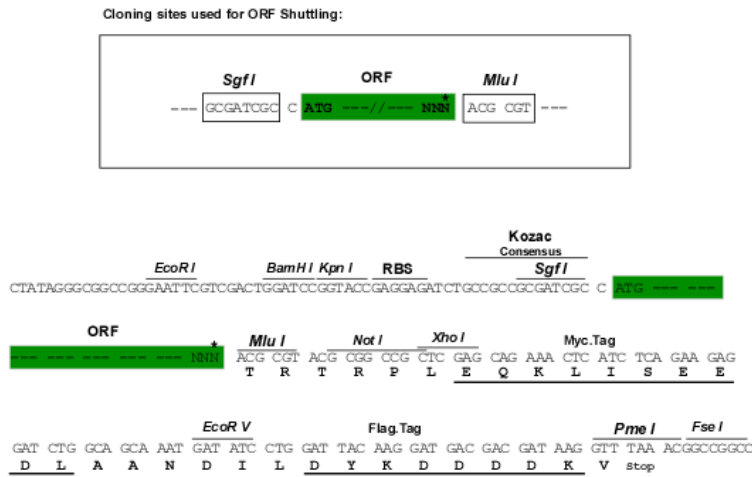
MLSFQYPDVYRDETSVQDYHGHKICDPYAWLEDPDSEQTKAFVEAQNKITVPFLEQCPIRGLYKERMTEL
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 YGLSASGSDWVTIKFMKVDGAKELPDVLERVKFTCMAWTHDGKGMFYNSYPQDQKSDGTETSTNLHQKL
 CYHVLGTDQSEDVLCAEFPDEPKWMGGAELSDDGRYVLLSIWEGCDPVNRLWYCDLQQGSNGINGILKWW
 KLIDNFEGEYDYITNEGTVFTFKTNRNSPNYRLINIDFTDPDESKWKVLVPEHEKDVLEWVACVRSNFLV
 LCYLRNVKNILQLHDLTTGALLKTFPLDVGSVVGYSGRKKDSEIFYQFTSFLSPGVYIHCDLTREELEPR
 VFREVTYKVIDASDYQTIQVFPYPSKDGTKIPMFIHVHKKGIKLDGSHPAFLYGGFNISITPNYSVSRLLI
 FVRHMGVAVANIRGGGEYGETWHKGGILANKQNCFFDQCAAAYLKEGYTTSKRLTINGGSNGLLV
 AACANQRPDLCVIAQVGVMDMLKFHKFTIGHAWTTDYGCSKQHFELLKYSPLHNVKLPEADDIQY
 PSMLLLTADHDDRVPVPLHSLKFIATLQYIVGRSRKQSNPLLIHVDTKAGHGPGKPTAKVIEEVSDMFAFI
 ARCLNIEWIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

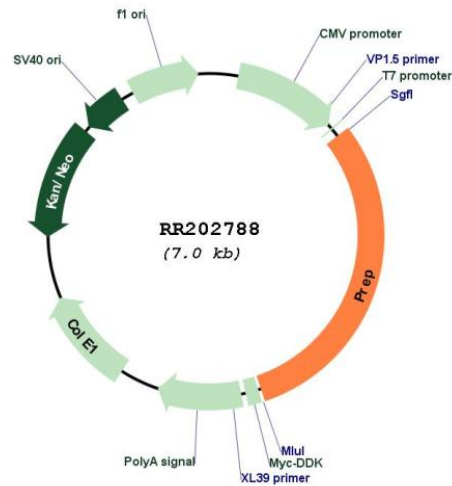
Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_031324

ORF Size: 2130 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_031324.1](#), [NP_112614.1](#)

RefSeq Size: 2743 bp

RefSeq ORF: 2133 bp

Locus ID: 83471
UniProt ID: [O70196](#)
Cytogenetics: 20q13
MW: 80.7 kDa
Gene Summary: may play a role in neuropeptide catabolism; expressed in brain; most enzyme activity is localized to the cytosolic fraction [RGD, Feb 2006]