

Product datasheet for **RR204273**

Prune1 (NM_001007697) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prune1 (NM_001007697) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prune1
Synonyms:	MGC93997; Prune
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR204273 representing NM_001007697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGACTACTTGCAGGACTGTGAGCCGCTTTGCAGGAGTCCAGGCCTCTACATGTTGTGCTGGGA
 ATGAAGCCTGCGACTTGGACTCCATGGTGTCTGCCCTTGCCCTGGCCTTCTACCTAACAAAGACATCTGA
 AGCAGAAGACATCTTTATACCAGTTTTAAATATAAAGCGCTCTGAGCTTCTCTCCGAGGGGACAATGTC
 TTCTTCTCCAGGAGTTAAGATTGCAGAGTCAGCACTGATCTTCCGGGATGAGATTGACCTCCTTGCCC
 TGCACCAGGTGGCCAGCTCACCTCATCTTGTGACCACCATATGTTACCCAAGAGCGACGCAGCCCT
 GGAGGAGGACAGTACCGAGGTGCTGGACCACCGACCAATCGAGCAGAAATACTGTCCTCCTGTCATGTT
 TCAGTTGAGCTGGTGGGTCCTGTGCCACCCTGGTGGCTGAGAGAATCCTGCAGGGGGCACCAGAGACCT
 TGGACAGACAAACTGCAGCCCTTCTGCATGGAACCATCATCTGGACTGTGCAATATGGATGCCAAAT
 TGGAAAGCAACCCTAAAGGACAACGAATATGTGAAAAACTGGAGGCCCTTTCCAGATCTGCCAAA
 AGAAAGGACATCTTTGATTCTCTGCAGAAGGCCAAGTTTGATGTCTCAGGATTGACCACTGAGCAGATGC
 TCAGAAAGGACCAGAAGACTATCTACAGACAAGGTACCAAGGTGGCAGTCACTGAGTCTACATGGATT
 GGAGGCCCTTCTGCAGCGGTGAGCCCTCCTCAGACCTCAGTGTCTTCTGCCAAGATCACAGCTATGAT
 GCCCTGGTTGCCATGGCGATCTTTTCAACACTCACAACGAGCCAGTACGGCAGCTAGCCATCTTCTGTC
 CCCACGAGGCACTTGAATGACAATCTGTGGAGTCTGGAACAGTCCACCTCCCCAGCCCTGAAGCTGAC
 ACCCATCCCGAGCATCTCTGCTCACCTCCAGGCCATCTTCAAGGCAACACCCAGGTCTCTCGAAAGAAG
 CTGCTGCCTGTGCTGCAGGAAGCGCTCTCTGCATATCTCGACTCCATGAGGACGCTGCAGGGCAGCTGG
 AGGCCGCTTGGGTATGTCTAGGAGCAGGCTGACAAGGAGTTGGACAAGGCGAGTAACCTCCTGATCGC
 TGGACTGAGTCAAGATGATGAAGACCCTCCTCTGCCGCCACGCCATGAACAGCTTGGTGGATGAGTGC
 CCCCTGGATCAGGGGCTGCCTAAGCTCTCTGCCGAGGCTGTCTTTGAGAAGTGCAGTCAATCTCACTAT
 CCCAGTCTACCAGAGCCTGCCATCAAATAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204273 representing NM_001007697
 Red=Cloning site Green=Tags(s)

MEDYLQDCRAALQESRPLHVVLGNEACDLDSMVSALALAFYLTKTSEAEDIFIPVLNKRSELPLRGDNV
 FFLQEVKIAESALIFRDEIDLLALHQAGQLTLILVDHMLPKSDAALEEVAEVLDRPIEQKYCPPCHV
 SVELVGSCATLVAERILQGAPETLDRQTAALLHGTIILDCVNMDAKIGKATLKDNEYVEKLEALFPDLPK
 RKDIFDSLQKAKFDVSGLTTEQMLRKDQKTIYRQGTKVAVSAVYMDLEAFLQRSGLLSDLFAFCQDHSYD
 ALVAMAIFFNTHNEPVRQLAIFCPHEALRMTICGVLEQSTSPALKLTIPIPSISAHLQAYLQGNTOVSRKK
 LLPVLQEAL SAYLDSMRTPAGQLEAALGMSREQADKELDKASNSLIAGLSQDDEDPPLPPTPMNSLVDEC
 PLDQGLPKLSAEAVFEKCSQISLSQSTRACPSNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

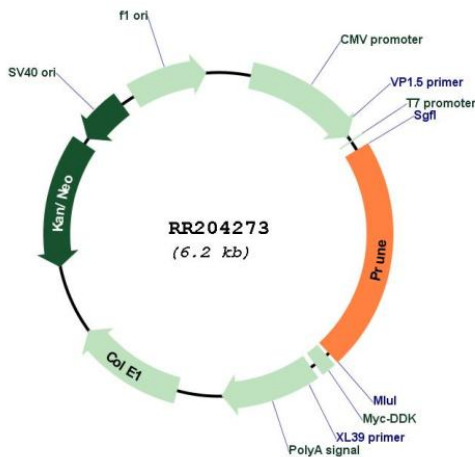
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007697

ORF Size: 1362 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_001007697.1](#), [NP_001007698.1](#)

RefSeq Size: 1723 bp

RefSeq ORF: 1365 bp

Locus ID: 310664

UniProt ID: [Q6AYG3](#)

Cytogenetics: 2q34

MW: 50 kDa

Gene Summary: Phosphodiesterase (PDE) that has higher activity toward cAMP than cGMP, as substrate. Plays a role in cell proliferation, migration and differentiation, and acts as a negative regulator of NME1. Plays a role in the regulation of neurogenesis. Involved in the regulation of microtubule polymerization.[UniProtKB/Swiss-Prot Function]