

Product datasheet for **RN204273**

Prune1 (NM_001007697) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN204273 representing NM_001007697
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGGACTACTTGCAGGACTGTGCGAGCCGCTTTCAGGAGTCCAGGCCTCTACATGTTGTGCTGGGGA
ATGAAGCCTGCGACTTGGACTCCATGGTGTCTGCCCTTGCCCTGGCCTTCTACCTAACAAAGACATCTGA
AGCAGAAGACATCTTTATACCAGTTTTAAATATAAAGCGCTCTGAGCTTCTCTCCGAGGGGACAATGTC
TTCTTCTCCAGGAGTTAAGATTGCAGAGTCACTGATCTTCCGGGATGAGATTGACCTCCTTGCC
TGCACCAGGCTGGCCAGCTCACCTCATCTTGTGACCACCATATGTTACCCAAGAGCGACGCAGCCCT
GGAGGAGGAGTACCGAGGTGCTGGACCACCGACCAATCGAGCAGAAATACTGTCCTCCTGTCATGTT
TCAGTTGAGCTGGTGGGGTCTGTGCCACCCTGGTGGCTGAGAGAATCCTGCAGGGGGCACCAGAGACCT
TGGACAGACAACTGCAGCCCTTCTGCATGGAACCATCATCTGGACTGTGCAATATGGATGCCAAAAT
TGGAAAGCAACCCTAAAGGACAACGAATATGTGGAAAACTGGAGGCCCTTTCCAGATCTGCCAAA
AGAAAGGACATCTTTGATTCTCTGCAGAAGCCAAGTTTGTGCTCAGGATTGACCACTGAGCAGATGC
TCAGAAAGGACCAGAAGACTATCTACAGACAAGGTACCAAGGTGGCAGTCACTGAGTCTACATGGATT
GGAGGCCCTTCTGCAGCGGTGAGCCCTCCTCAGACCTCAGTGTCTTCTGCCAAGATCAGACTATGAT
GCCCTGGTTGCCATGGCGATCTTTTCAACTCACAACGAGCCAGTACGGCAGCTAGCCATCTTCTGTC
CCCACGAGGCACTTGAATGACAATCTGTGGAGTCTGGAACAGTCCACCTCCCCAGCCCTGAAGCTGAC
ACCCATCCCGAGCATCTCTGCTCACCTCCAGGCCATCTTCAAGGCAACACCCAGGTCTCTCGAAAGAAG
CTGCTGCCTGTGCTGCAGGAAGCGCTCTCTGCATATCTCGACTCCATGAGGACGCTGCAGGGCAGCTGG
AGGCCGCTTGGGTATGTCTAGGGAGCAGGCTGACAAGGAGTTGGACAAGGCGAGTAACCTCCTGATCGC
TGGACTGAGTCAAGATGATGAAGACCCTCTCTGCCGCCACGCCATGAACAGCTTGGTGGATGAGTGC
CCCTGGATCAGGGGCTGCCTAAGCTCTCTGCCGAGGCTGTCTTTGAGAAGTGCAGTCAATCTCACTAT
CCAGTCTACCAGAGCCTGCCATCAAATAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001007697

Insert Size: 1365 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]