

## Product datasheet for **MR207254**

### Prune1 (NM\_173347) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prune1 (NM_173347) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prune1
Synonyms:	9230112O05Rik; C130058A12; DRES-17; HTCD37; Prune-M1; PRUNEM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207254 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGACTACCTGCAGGACTGTCGAGCCGCTTTCAGGATTCCAGGCCTCTACATGTCGTGCTGGGAA  
 ATGAAGCCTGCGACTTAGACTCCATGGTGTCTGCTCTCGCCTTGCCCTTCTACCTAACAAAGACGTCTGA  
 AGCTGAAGACATCTTTATACCAGTTTTAAATATAAAGCGTTCTGAGCTTCTCTGCGCGGGGACAATGTC  
 TTCTTTCTCCAGGAGTTAAGATTCCAGAGCCAGCCCTGATCTTCCGGGACGAGATTGACCTCCTAGCCC  
 TGCACCAGGCTGGCCAGCTCACCTCATCTTGTGACCACCATATTTTACCCAAAAGCGATGCAGCTCT  
 GGAGGAGGCCGTAGCAGAGGTGCTGGACCACCGACCAATTGAGCAGAAATACTGTCCTCCCTGTCACGTT  
 TCAGTTGAGCTGGTGGGGTCTGTGCCACCCTGGTGACAGAGAGAATCCTGCAGGGGGCACCAGAGACCT  
 TGGACAGACAACTGCAGCCCTACTGCATGGAACCATCATCTGGACTGTGTCAACATGGATACCAACAT  
 TGGGAAGCAACCCCAAAGGACAGCAAAATGTGGAAGAACTGGAAGCCCTTTTCCAGATCTGCCAAA  
 AGAAAGGACATATTTGATTCCCTGCAGAAGGCCAAGTTTGACGTCTCAGGACTGACCACTGAACAGATGC  
 TCAGAAAGGACCAGAAGACAGTCTACAGACAGGGCACCAAGGTGGAATCAGTGCAATCTACATGGACTT  
 GAAGGCCCTTCTGCAGCGGACAGACCTTTCACAGATCTCAGTCTTTCTGCCATGATCAGACTATGAT  
 GCCCTGGTTGCCATGACTATCTTTTCAACACTCAAAATGAGCCAGTACGGCAATTAGCTATCTTCTGTC  
 CACACGAGGCACTTGAATGACAATCTGTGGCATCCTGGAACGATCCACCTCCCCACCCCTGAAGCTGAC  
 ACCTATCCCAAGCACCTCCCCTAACCTCCAGGCCATCACCAAGGCAACACCCAGGTCTCTCGGAAGAAG  
 CTGCTGCCTGTGCTCCAGGAAGCCCTCTCCGCATATCTTGACTCAGCGAAGATGGCTTCGGGGCAGTCTG  
 AGGTAGCTGTGGTATGTCTAGGGAGCAGGTGGACAAGGACTGGACAAGGCAAGTAACCTCCCTGATTTT  
 TGGGCTGAGTCAAGATGAGGAAGACCCTCCGCTGCCACCCACGCTATGAACAGCTTGGTGGATGAGTGC  
 CCTCTGGATCAGGGGCTGCCTAAGTTCTCCGCTGAGGCTGTCTTTGAGAAGTGCAGTCAGATCTCACTAT  
 CCCAGTCTGCCAGAGCCTGCACATCAAATAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207254 protein sequence  
 Red=Cloning site Green=Tags(s)

MEDYLQDCRAALQDSRPLHVVLGNEACDLDSMVSALALAFYLTKTSEAEIDFIPVLNIKRSELPLRGDNV  
 FFLQEVKIPEPALIFRDEIDLLALHQAGQLTLILVDHILPKSDAAL EEVAEVL DHRPIEQKYCPPCHV  
 SVELVGSCATLVTERILQGAPETLDRQTAALLHGTIILDCVNMDTNIGKATPKDSKYVEELEALFPDLPK  
 RKDIFDSLQKAKFDVSGLTTEQMLRKDQKTVYRQGTKVAISAIYMDLKAF LQRTDLFTDLSFCHDHSYD  
 ALVAMTIFFNQNEPVRQLAIFCPHEALRMTICGILERSTSPPLKLTPIPSTSPNLQAYHQNTQVSRKK  
 LLPVLQEALSAYLDSAKMASGQSEVAVGMSREQVDKLDKASNSLISGLSQDEEDPPLPPTPMNSLVDEC  
 PLDQGLPKFSAEAVFEKCSQISLSQSARACTSNK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_173347

**ORF Size:** 1365 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\\_173347.2](#), [NP\\_775482.1](#)

**RefSeq Size:** 3160 bp

**RefSeq ORF:** 1365 bp

**Locus ID:** 229589

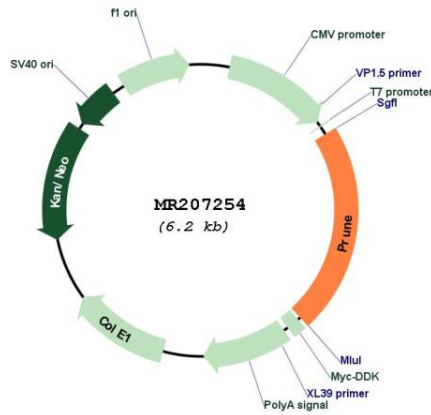
**UniProt ID:** [Q8BIW1](#)

**Cytogenetics:** 3 F2.1

**MW:** 50.2 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]

**Product images:**



Circular map for MR207254