

Product datasheet for **MG207254**

Prune1 (NM_173347) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Prune1 (NM_173347) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Prune1 |
| Synonyms: | 9230112O05Rik; C130058A12; DRES-17; HTCD37; Prune-M1; PRUNEM1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG207254 representing NM_173347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGACTACCTGCAGGACTGTCGAGCCGCTTTGCAGGATTCCAGGCCTCTACATGTCGTGCTGGGAA
 ATGAAGCCTGCGACTTAGACTCCATGGTGTCTGCTCTCGCCTTGCCCTTCTACCTAACAAAGACGTCTGA
 AGCTGAAGACATCTTTATACCAGTTTTAAATATAAAGCGTTCTGAGCTTCTCTCGCGGGGACAATGTC
 TTCTTTCTCCAGGAGTTAAGATTCCAGAGCCAGCCCTGATCTTCCGGGACGAGATTGACCTCCTAGCCC
 TGCACCAGGCTGGCCAGCTCACCTCATCTTGTGACCACCATATTTTACCCAAAAGCGATGCAGCTCT
 GGAGGAGCCGTAGCAGAGGTGCTGGACCACCGACCAATTGAGCAGAAATACTGTCCTCCCTGTCACGTT
 TCAGTTGAGCTGGTGGGGTCTGTGCCACCCTGGTGACAGAGAGAATCCTGCAGGGGGCACCAGAGACCT
 TGGACAGACAAACTGCAGCCCTACTGCATGGAACCATCATCTGGACTGTGTCAACATGGATACCAACAT
 TGGGAAGGCAACCCCAAAGGACAGCAAATATGTGGAAGAACTGGAAGCCCTTTTCCAGATCTGCCCAA
 AGAAAGGACATATTTGATTCCCTGCAGAAGGCCAAGTTTGACGTCTCAGGACTGACCACTGAACAGATGC
 TCAGAAAGGACCAGAAGACAGTCTACAGACAGGGCACCAAGGTGGCAATCAGTGCAATCTACATGGACTT
 GAAGGCCCTTTCTGCAGCGGACAGACCTTTCACAGATCTCAGTCTTTTCTGCCATGATCAGACTATGAT
 GCCCTGGTTGCCATGACTATCTTTTTCAACTCAAAATGAGCCAGTACGGCAATTAGCTATCTTCTGTC
 CACACGAGGCACTTGAATGACAATCTGTGGCATCCTGGAACGATCCACCTCCCCACCCCTGAAGCTGAC
 ACCTATCCCAAGCACCTCCCCTAACCTCCAGGCCATCACCAAGGCAACACCCAGGTCTCTCGGAAGAAG
 CTGCTGCCTGTGCTCCAGGAAGCCCTCTCCGCATATCTTGACTCAGCGAAGATGGCTTCGGGGCAGTCTG
 AGGTAGCTGTGGGTATGTCTAGGGAGCAGGTGGACAAGGACTTGGACAAGGCAAGTAACCTCCCTGATTTT
 TGGGCTGAGTCAAGATGAGGAAGACCCTCCGCTGCCACCCACGCCTATGAACAGCTTGGTGGATGAGTGC
 CCTCTGGATCAGGGGCTGCCTAAGTTCTCCGCTGAGGCTGTCTTTGAGAAGTGCAGTCAGATCTCACTAT
 CCCAGTCTGCCAGAGCCTGCACATCAAATAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207254 representing NM_173347
 Red=Cloning site Green=Tags(s)

MEDYLQDCRAALQDSRPLHVVLGNEACDLDSMVSALALAFYLTKTSEAEDIFIPVLNIKRSELPLRGDNV
 FFLQEVKIPEPALIFRDEIDLALHQAQQLTLILVDHILPKSDAAL EEA VAEVLDHRPIEQKYCPPCHV
 SVELVGSCATL VTERILQGAPETLDRQTAALLHGTIILDCVNMDT NIGKATPKDSKYVEELEALFPDLK
 RKDIFDSLQKAKFDVSGLTTEQMLRKDQKT VYRQGTKVAISAIYMDLKAFLQRTDLFTDLS SFCHDHSYD
 ALVAMTIF FNTQNEPVRQLAIFCPHEALRMTICGILERSTSPPLKLTPI PSTSPNLQAYHQNTQVSRKK
 LLPVLQEAL SAYLDSAKMASGQSEVAVGMSREQVDKDLDKASNSLISGLSQDEEDPPLPPTPMNSLVDEC
 PLDQGLPKFSAEAVFEKCSQISLSQSARACTSNK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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: | <u>NM_173347.2</u> , <u>NP_775482.1</u> |
| RefSeq Size: | 3160 bp |
| RefSeq ORF: | 1365 bp |
| Locus ID: | 229589 |
| UniProt ID: | <u>Q8BIW1</u> |
| Cytogenetics: | 3 F2.1 |
| 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] |