

Product datasheet for **RR203033**

Prr7 (NM_001109116) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Prr7 (NM_001109116) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Prr7
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR203033 representing NM_001109116
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGATGTCCAGGGCACCTACAGTTCCTCACGTGCTTCGCCGGCTTCTGGCTCATCTGGGTCTCA
 TCGTCCTGCTCTGCTGCTTCTGCAGTTCCTGCGCCGCCCTCAAACGGCGCCAGGAGGAGCGACTGAG
 GGAGCAGAACCTGCGCGCCCTGGAGCTGGAGCCCCTCGAGCTTGAGGGCAGCCTGGCTGGAAGTCCTCCG
 GGCTGGCGCCGCCACCGCCACCGCAGCCGTCTGGAGGCGCCTGTGCACGCGCACTCGCACGTGC
 ACGTGCACCCTCTGCTGCACCAGGGCCGGCGCAGCCGACGGCAGCCGCCACCCACCCACCCATCAGCACT
 GCCGCACCCACCGCCGTGCACCTCTCCGTGCCGCCCGGCCCTGGAGCTATCCGCGCCAAGCGGAATCG
 GACATGTCTAAGCCGCCGTGCTACGAGGAGGCGGTGCTGATGGCCGAGCCGCCGCCCTACAGCGAGG
 TGCTCACGGACTCGCGGCTCTACCGCAAGATCGTCACGCCCTTCTGAGCCGCCGACAGCGCGGA
 GAAGCAGGAGCAGCCCTCCGAGTTACAAGCCTCTTCTGACCGGGGCTATACCTCGGCGCTGCAT
 CTTCCAGCGCCCGGCCCGCCGCCCTGCCCTGCCCTGTCTGCAGGGGACCGCAGCCGCCGTG
 TCTCCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGAGGCCCTGGAGCACGGAGCTTGGCGCTGCC
 CGTCTCCATCCCCTTGTGGAGGACTACAGCCGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203033 representing NM_001109116
 Red=Cloning site Green=Tags(s)

MVMSQGTYTFLTCFAGFWLIWGLIVLLCCFCFLRRRLKRRQEERLREQNLRALELEPLELEGLAGSPP
 GLAPPPPHRSRLEAPVHAHSHVHVHPLLHHGPAQPHAHPPHHHALPHPPSHLSVPPRPWSYPRQAES
 DMSKPPCYEEAVLMAEPPPPYSEVLTDRGLYRKIVTVPFLSRRDSA EKQEPPPSYKPLFLDRGYTSALH
 LPSAPRPAAPCPALCLQADRSRRVFPSTWDELSSREPLEHGAWRLPVSIPFLFGRITAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001109116

ORF Size: 807 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_001109116.1](#), [NP_001102586.1](#)

RefSeq Size: 970 bp

RefSeq ORF: 810 bp

Locus ID: 498704

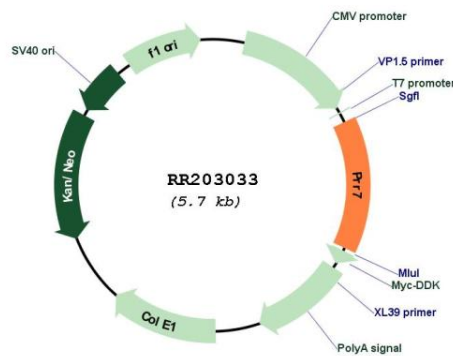
UniProt ID: [P0C6T3](#)

Cytogenetics: 17p14

MW: 30.4 kDa

Gene Summary: Acts as a synapse-to-nucleus messenger to promote NMDA receptor-mediated excitotoxicity in neurons in a JUN-dependent manner (PubMed:27458189). Inhibits ubiquitination-mediated degradation and promotes phosphorylation and transcriptional activity of transcription factor JUN (PubMed:27458189). Might play a redundant role in the regulation of T cell receptor signaling (By similarity). Might promote apoptosis in T cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR203033