

## Product datasheet for RN203033

### Prr7 (NM\_001109116) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prr7 (NM_001109116) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prr7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN203033 representing NM_001109116 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGATGTCCAGGGCACCTACAGTTCTCACGTGCTTCGCCGGCTTCTGGCTCATCTGGGGTCTCA  
TCGTCCTGCTCTGCTGCTTCTGCAGTTCTTGCAGCTTCTGCGCCGCCCTCAAACGGCGCCAGGAGGAGCGACTGAG  
GGAGCAGAACCTGCGCGCCCTGGAGCTGGAGCCCTCGAGCTTGAGGGCAGCCTGGCTGGAAGTCCTCCG  
GGCCTGGCGCCGCCACCGCCACCGCAGCCGCTGGAGGGCGCTGTGCACGCGCACTCGCACGTGC  
ACGTGCACCTCTGCTGCACCAGGGCCGGCGAGCCGACCGCAGCCGACCCGACCCACCCATCACGCACT  
GCCGCACCCACCGCCGTGCACCTCTCCGTGCCGCCCGGCCCTGGAGCTATCCGCGCCAAGCGGAATCG  
GACATGTCTAAGCCGCCGTGCTACGAGGAGGCGGTGCTGATGGCCGAGCCGCCGCCCTACAGCGAGG  
TGCTCACGGACTCGCGGCTTACCAGCAAGATCGTCACGCCCTTTCTGAGCCGCCGACAGCGCGGA  
GAAGCAGGAGCAGCCCTCCGAGTTACAAGCCTCTTCTGACCGGGGCTATACCTCGGCGCTGCAT  
CTTCCCAGCGCCCGGCCCGCCGCCCTGCCCTGCCCTGTCTGCAGGGGACCGCAGCCGCCGTG  
TCTTCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGAGGCCCTGGAGCACGGAGCTTGGCGCTGCC  
CGTCTCCATCCCCTTGTGGAGGACTACAGCCGATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001109116
Insert Size:	810 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001109116.1</a></u> , <u><a href="#">NP_001102586.1</a></u>
<b>RefSeq Size:</b>	970 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	498704
<b>UniProt ID:</b>	<u><a href="#">P0C6T3</a></u>
<b>Cytogenetics:</b>	17p14
<b>Gene Summary:</b>	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]