

Product datasheet for **MG217300**

Prr7 (NM_001030296) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Prr7 (NM_001030296) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Prr7
 Synonyms: XM_484263
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG217300 representing NM_001030296
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGATGTCCAGGGCACCTACACGTTCTCACTTGCTTCGCCGGCTTCTGGCTCATCTGGGTCTCA
 TCGTCCTGCTCTGCTGCTTCTGCAGCTTCTGCGCCGCCCTCAAACGGCGCCAGGAGGAGCGACTAAG
 GGAGCAGAAGTTGCGTGCCCTGGAGCTGGAGCCCCTCGAGCTTGAGGGCAGCCTGGCTGGAAGTCTCCC
 GGCTGGCGCCGCCGCCACCGCACCGCAGCCGTCTGGAGGCGCCTGTGCACGCGCACTCGCACGTGC
 ACGTGCACCCGCTGCTGCACCACGGGCCGCGCCGCCGACGCGCACCCGCACCCACACCATCACGCACT
 GCCGCACCCACCGCCGCCGACCTCGCCGTGCCGCCCGGCCCTGGAGCTATCCGCGCCAAGCGGAATCG
 GACATGTCTAAGCCGCCGTGCTACGAGGAGGCGGTGCTGATGGCCGAGCCGCCGCCCTCCCTACAGCGAGG
 TGCTCACGGACTCGCGGCTCTACCGCAAGATCGTACGCCCCTTTCTGAGCCGCCGACAGCGCGGA
 GAAGCAGGAGCAGCCGCTCCGAGTTACAAGCCTCTTCTGGACCGGGGCTATACTTCGGCGTGCAT
 CTTCCAGCGCCCGCGGCCGCCGACCCCTGCCCTGCCCTGTCTGCAGGGGAACGCAGCCGCCGGG
 TTTTCCCAGCTGGACCGACTCAGAGCTCAGACGGCAGAGCCCTGGAGCACGGAGCTTGGCGTCTGCC
 GGTCTCCATCCCCTTGTTCGGGAGGACTACAGCCGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217300 representing NM_001030296
 Red=Cloning site Green=Tags(s)

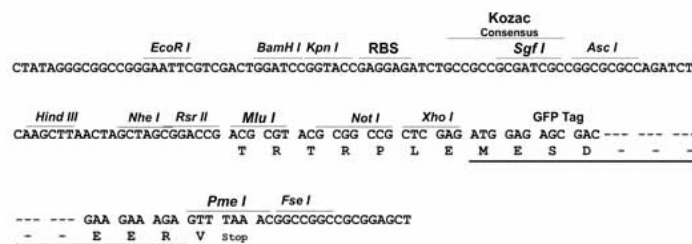
MVMSQGTYTFLTCFAGFWLIWGLIVLLCCFCFLRRRLKRRQEERLREQNLRALELEPLELEGLAGSPP
 GLAPPPPHRSRLEAPVHAHSHVHVHPLLHHGPAPPHAHPHPPHHPHPPHPLAVPPRPWSYPRQAES
 DMSKPPCYEEAVLMAEPPPPYSEVLTDRGLYRKIVTPFLSRRDSA EKQEPPPSYKPLFLDRGYTSALH
 LPSAPRPAAPCPALCLQAERSRRVFPSTWDSSELSSREPLEHGAWRLPVSIPLFGRTTAV

TRTRPLE - GFP Tag - V

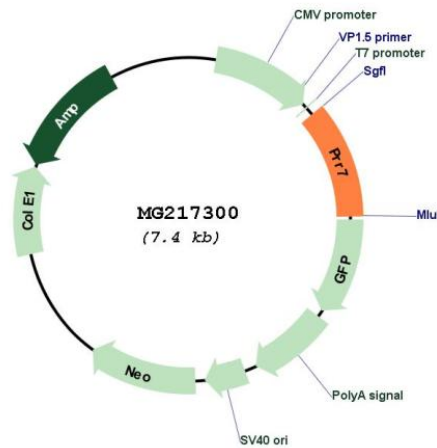
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001030296

ORF Size: 807 bp

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|-------------------------------|---|
| 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: | <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: | NM_001030296.4 , NP_001025467.1 |
| RefSeq Size: | 1360 bp |
| RefSeq ORF: | 810 bp |
| Locus ID: | 432763 |
| UniProt ID: | Q3V0I2 |
| Cytogenetics: | 13 B1 |
| Gene Summary: | Acts as a synapse-to-nucleus messenger to promote NMDA receptor-mediated excitotoxicity in neurons in a JUN-dependent manner (By similarity). Inhibits ubiquitination-mediated degradation and promotes phosphorylation and transcriptional activity of transcription factor JUN (By similarity). Might play a redundant role in the regulation of T cell receptor signaling (PubMed:27657535). Might promote apoptosis in T cells (By similarity).[UniProtKB/Swiss-Prot Function] |