

## Product datasheet for **RG205637**

### PRR7 (NM\_030567) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRR7 (NM_030567) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205637 representing NM_030567 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGATGTCCAGGGCACCTACACGTTCCCTCACGTGCTTCGCCGGCTTCTGGCTCATCTGGGGTCTCA  
TCGTCCTGCTCTGCTGCTTCTGCAGCTTCTGCGCCGCCCTCAAACGGCGCCAGGAGGAGCGACTGCG  
CGAGCAGAACCTGCGGCCCTAGAGCTGGAGCCCCTCGAACTCGAGGGCAGTCTGGCCGGGAGTCCCCCG  
GGCCTGGCGCCGCCGAGCCACCACACCGTAGCCGCCTGGAGGCGCCGGCTCACGCGCACTCGCATC  
CGCACGTGCACGTGCACCCGCTGCTGCACACGGGCCCGCAGCCGACGCGCACGCGCACCCACACCC  
GCACCACCAGCGCTCCCGCACCCGCGCCTACGCACCTGTCGGTGCCGCGCACGGCCCTGGAGCTACCCG  
CGCCAAGCGGAATCGGACATGTCCAAACCACCGTGTACGAAGAGGCGGTGCTGATGGCAGAGCCGCCG  
CGCCCTATAGCGAGGTGCTCACGGACACGCGCGCCTCTACCGAAGATCGTCACGCCCTTCTGAGTCG  
CCGCGACAGCGCGGAGAAGCAGGAGCAGCCGCTCCAGCTACAAGCCGCTTCTCCTGGACCGGGGTAC  
ACCTCGGCGTGCACCTGCCAGCGCCCTCGGCCGCGCCCTGCCAGCCCTGCTGCAGGCCG  
ACCGTGGCCGCCGGTCTTCCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGCGAGCCCTGGAGCAGG  
AGCTTGGCGTCTGCCGTCTCCATCCCCTTGTTCGGGAGGACTACAGCCGTA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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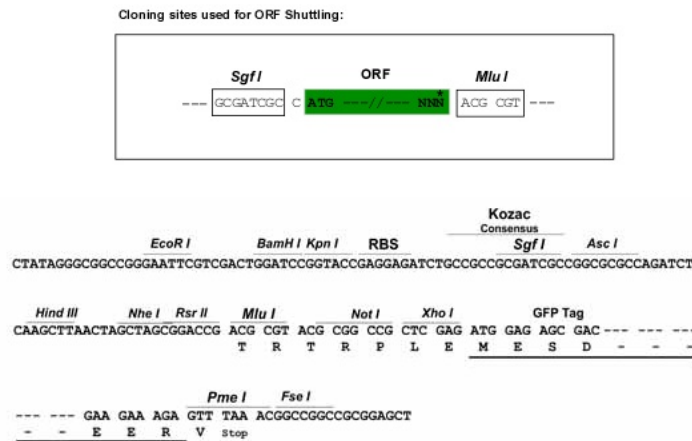
**Protein Sequence:** >RG205637 representing NM\_030567  
Red=Cloning site Green=Tags(s)

MVMSQGTYTFLTCFAGFWLIWGLIVLLCCFCFLRRRLKRRQEERLREQNLRALELEPLELEGLAGSPP  
 GLAPPQPPPHRSRLEAPAHASHPHVHVHPLLHHGPAQPHAHAPHPHHHALPHPPPTHLVPPRPWSYP  
 RQAESDMSKPPCYEEAVLMAEPPPPYSEVLTDRGLYRKIVTPFLSRRDSA EKQEPPPSYKPLFLDRGY  
 TSALHLPSAPRPAPPCALCLQADRGRVFPSTWDSSELSSREPLEHGAWRLPVSIPFLFGRTTAV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030567

**ORF Size:** 822 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\\_030567.3](#)

**RefSeq Size:** 1510 bp

**RefSeq ORF:** 825 bp

**Locus ID:** 80758

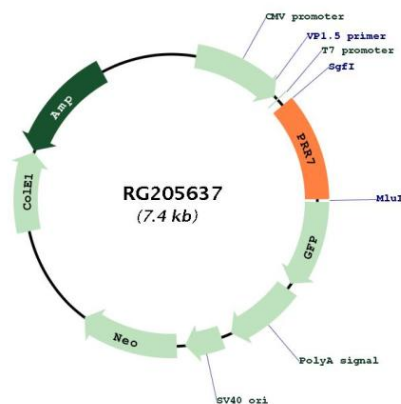
**UniProt ID:** [Q8TB68](#)

**Cytogenetics:** 5q35.3

**Protein Families:** Transmembrane

**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 (PubMed:27458189). Might play a redundant role in the regulation of T cell receptor signaling (PubMed:21460222). Might promote apoptosis in T cells (PubMed:21460222). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG205637