

## Product datasheet for RC208958

### PRRT1 (NM\_030651) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRRT1 (NM_030651) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRRT1
Synonyms:	C6orf31; DSPD1; IFITMD7; NG5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208958 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCATCCGAAAAGTCAGGACTCCCAGACTCAGTCCCTCACACTTCTCCGCCGCCCTACAATGCCCTC  
AGCCTCCAGCCGAACCCCGACCCACCGCCACAGGCAGCCCTTCTCACACCATCACCACCACCACCA  
CTACCATCAGTCTGGCACCGCCACCTCCCGCTTAGGGGCAGGGGCCCTGGCTTCCGCGGCCACC  
GCTCAGCGCGGTCCCTCCTCTGCCACGCTGCCGAGGCCCGCCACCACGCCCTCCCGCCCTGCTG  
CCGGGCACCCCGCTGCGTACCTTGCCCGCATGCCACCGACCTTACTGCAGGAGACTCG  
CTTCGAGGGCCACTTCCCGCCGCGCCCGCTGCCCGCCCGCCCGCCCGCCCGCCGCGCCAGCCAGACT  
GCCAGGCCCTGGCTTCGTGGTGCCACGCACGCGGGGACTGTGGGCACGCTGCCGCTGGGGGTACG  
TAGCGCCCGGATACCCCTGCAGCTGCAGCCTTGCACTGCTTACGTGCCGGTCTACCCGGTGGGCACGCC  
ATATGCAGGCGGGACCCCGGGGGAACAGGAGTGACCTCCACTCTCCCGCCCGCCAGGGCCAGGG  
CTGGCCCTACTGGAGCCGAGGCGCCCGCACAGACTACATGCCATCGCGGTGCTGACCACCATCTGTT  
GCTTCTGGCTACTGGCATATTGCCATTTCAAGCCGTGCAAGTGCGCACGGCCTTGGCCCGGAGA  
CATGGTGTGGCCGAGATCGCTTACGCGAGGCCCGGAATTTCTCTTCACTCCCTGGCCGTGGGCATC  
CGGCCATGGTGTCTGTACCATCTCACCGTAGTCATCATCATCGCCGCGCAGCACCCAGAGAATACT  
GGGATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC208958 protein sequence  
Red=Cloning site Green=Tags(s)

MSSEKSGLPDSVPHTSPPPYNAPQPPAEPPAPPQAAPSSHHHHHHYHQSGTATLPRLGAGGLASSAAT  
 AQRGPSSSATLPRPPHHAPPGPAAGAPPPGCATLPRMPPDPYLQETRFEGPLPPPPAAAAAPPPAPAQT  
 AQAPGFVYPHAGTVGTLPLGGYVAPGYPLQLQPCTAYVPVYPVGTPTYPAGGTPGGTGVSTLPPPPQGGP  
 LALLEPRRPPHDYMPIAVLTTICCFWPTGIIAIFKAVQVRTALARGDMVSAEIASREARNFSFISLAVGI  
 AAMVLCITLTVVIIIAAQHHENYWDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6791\\_g08.zip](https://cdn.origene.com/chromatograms/mk6791_g08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030651

**ORF Size:** 918 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\\_030651.4](#)

**RefSeq Size:** 1931 bp

**RefSeq ORF:** 921 bp

**Locus ID:** 80863

**UniProt ID:** [Q99946](#)

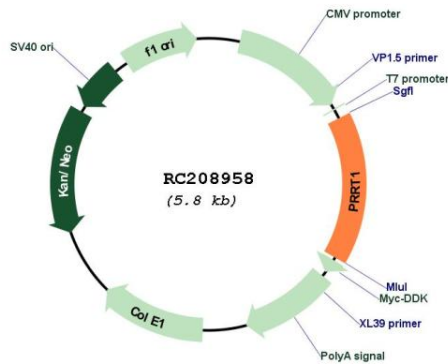
**Cytogenetics:** 6p21.32

**Protein Families:** Transmembrane

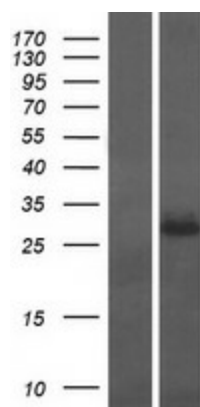
**MW:** 31.4 kDa

**Gene Summary:** Required to maintain a pool of extrasynaptic AMPA-regulated glutamate receptors (AMPA) which is necessary for synapse development and function. Regulates basal AMPAR function and synaptic transmission during development but is dispensable at mature hippocampal synapses. Plays a role in regulating basal phosphorylation levels of glutamate receptor GRIA1 and promotes GRIA1 and GRIA2 cell surface expression.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC208958



Western blot validation of overexpression lysate (Cat# [LY410750]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208958 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).