

Product datasheet for **MR214094**

Prrt2 (NM_001102563) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prrt2 (NM_001102563) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prrt2
Synonyms: 1500031119Rik; A1195361; DSPB3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR214094 representing NM_001102563
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCAGCAGCTCTCAGGTCTCTGAGATGAAGGGGGTGAAGACAGTTCCAAAACCCAGACAGAAG
GTCCCAGGCATTCTGAAGAAGGACTAGGTCCTGTCCAGGTTGTAGCAGAGATCCCAGACCAGCCAGAGGC
CCTTCAGCCGGGCCAGGCATCACTGCAGCCCCTGTGGACTCAGGGCCTAAGGCAGAGCTGGCACCAGAA
ACCACAGAGACCCAGTTGAAACCCAGAAACAGTCCAGGCCACAGACCTCAGTTTAAACCCAGAAGAAG
GCTCCAAGGCCAGCCCCAGCCCCAGCCAGCGAGGCACGCCAAGAGCCAGCATCCAACCAGATGTGAA
CAGAGAGACTGCAGCAGAGGAAGGGTCTGAGCCGAGTCTACAGCCCCTCCTGAGCCAACCTCGGAGCCT
GCTTTTCAGATAAACACCCAGTCAGACCCTCAGCCAACCTCCAGCCTCCTCCTAAACCCCCCTTCAGG
CAGAGCCCCCACCAAGAGGACCTACCACAGAGGTCCTGACAGAAAGTACAGGGGAAAAACAAGAAAA
CGGAGCAGTGGTTCCTTCAGGCTGGTACGGGGAAGAGGGCCAGCCCCCAACCTCACTCACCACCC
TCAACTAAAACACCCAGCCAATGGGGCTCCCCCGTGTGCTGCAGAACTCGTTGAGGAAGACAGAA
TAGGAAGGGCACACGGTGGCATCCAGGATCTCCTCGAGGTAGCCTAAGCCGTATCCCAGCTCCAGCT
GGCAGGGCCTGGGGTGAAGGGGGCAAGGCACCCAGAAACCTCGGGACTATATCATCCTTGCCATCCTG
TCCTGCTTCTGCCCATGTGCCCTGTCAACATTGTGCCCTTCGTTATGCCGTATGTCGGGAACAGCC
TGCAACAGGGGGACGTGGATGGGGCTCAACGTCTGGGCCGAGTAGCCAAGCTCTTAAGCATCGTGGCGCT
GGTTGGGGGGTCTCATCATCATCGCCTCCTGCGTCATCAACTTAGGCGTGATAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR214094 representing NM_001102563
Red=Cloning site Green=Tags(s)

MAASSQVSEMKGVEDSSKTQTEGPRHSEEGLPVQVVAEIPDQPEALQPGPGITAAPVDSGPKAELAPE
 TTETPVETPETVQATDLNLNPEEGSKASPSPPSEARQEPASKPDVNRETAEEGSEPQSTAPPEPTSEP
 AFQINTQSDPQPTSQPPPKPPLQAEPTQEDPTTEVLTESTGEKQENGAVVPLQAGDGEEGPAPQPHSPP
 STKTPPANGAPPRVLQKLVEEDRIGRAHGGHPGSPRGSLSRHPSSQLAGPGVEGGEGTQKPRDYIILAIL
 SCFCPMWPVNIVAFAYAVMSRNSLQQGDVDGAQRLGRVAKLLSIVALVGGVLIIIASCVINLGVYK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9078_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102563

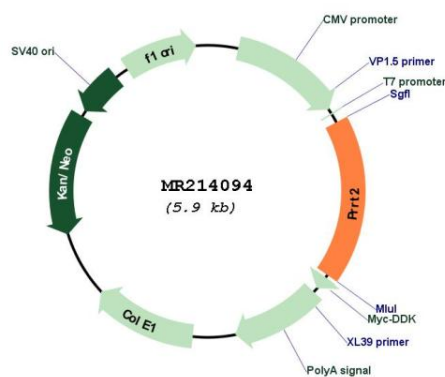
ORF Size: 1038 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001102563.1</u> , <u>NP_001096033.1</u>
RefSeq Size:	2510 bp
RefSeq ORF:	1041 bp
Locus ID:	69017
UniProt ID:	<u>E9PUL5</u>
Cytogenetics:	7 F3
MW:	35.9 kDa
Gene Summary:	As a component of the outer core of AMPAR complex, may be involved in synaptic transmission in the central nervous system. In hippocampal neurons, in presynaptic terminals, plays an important role in the final steps of neurotransmitter release, possibly by regulating Ca(2+)-sensing (PubMed:27052163). In the cerebellum, may inhibit SNARE complex formation and downregulate short-term facilitation (PubMed:29056747).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214094