

## Product datasheet for **MG214094**

### Prrt2 (NM\_001102563) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prrt2 (NM\_001102563) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Prrt2  
**Synonyms:** 1500031119Rik; A1195361; DSPB3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG214094 representing NM\_001102563  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCCAGCAGCTCTCAGGTCTCTGAGATGAAGGGGGTGAAGACAGTTCCAAAACCCAGACAGAAG  
 GTCCCAGGCATTCTGAAGAAGGACTAGGTCCTGTCCAGTTGTAGCAGAGATCCCAGACCAGCCAGAGGC  
 CCTTCAGCCGGGCCAGGCATCACTGCAGCCCCTGTGGACTCAGGGCCTAAGGCAGAGCTGGCACCAGAA  
 ACCACAGAGACCCAGTTGAAACCCAGAAACAGTCCAGGCCACAGACCTCAGTTTAAACCCAGAAGAAG  
 GCTCCAAGGCCAGCCCCAGCCCCAGCCGAGGCACGCCAAGAGCCAGCATCCAACCAGATGTGAA  
 CAGAGAGACTGCAGCAGAGGAAGGGTCTGAGCCGAGTCTACAGCCCCTCCTGAGCCAACCTCGGAGCCT  
 GCTTTTCAGATAAACACCCAGTCAGACCCTCAGCCAACCTCCAGCCTCCTCTAAACCCCTTCAGG  
 CAGAGCCCCCACCAAGAGGACCTACCACAGAGGTCCTGACAGAAAGTACAGGGGAAAAACAAGAAAA  
 CGGAGCAGTGGTTCCTTCAGGCTGGTGACGGGGAAGAGGGCCAGCCCCCAACCTCACTCACCACCC  
 TCAACTAAAACACCCAGCCAATGGGGCTCCCCCGTGTGCTGCAGAACTCGTTGAGGAAGACAGAA  
 TAGGAAGGGCACACGGTGGGCATCCAGGATCTCCTCGAGGTAGCCTAAGCCGTATCCCAGCTCCAGCT  
 GGCAGGGCCTGGGGTGAAGGGGGCAAGGCACCCAGAAACCTCGGGACTATATCATCTTGCCATCCTG  
 TCCTGCTTCTGCCCATGTGCCCTGTCAACATTGTGCCCTTCGTTATGCCGTATGTCCCGAACAGCAG  
 TGCAACAGGGGGACGTGGATGGGGCTAACGTCTGGGCCGAGTAGCCAAGCTCTTAAGCATCGTGGCCGT  
 GTTGGGGGGTCTCATCATCATCGCCTCCTGCGTCATCAACTAGGCGTGTATAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG214094 representing NM\_001102563  
Red=Cloning site Green=Tags(s)

MAASSQVSEMKGVEDSSKTQTEGPRHSEEGLPVQVVAEIPDQPEALQPGPGITAAPVDSGPKAELAPE  
 TTETPVPETVQATDLNLNPEEGSKASPSPPSEARQEPASKPDVNRETAEEGSEPQSTAPPEPTSEP  
 AFQINTQSDPQPTSQPPPKPPLQAEPTQEDPTTEVLTESTGEKQENGAVVPLQAGDGEEGPAPQPHSPP  
 STKTTPANGAPPRVLQKLVEEDRIGRAHGGHPGSPRGSLSRHPSSQLAGPGVEGGEGTQKPRDYIILAIL  
 SCFCPMWPVNIYAFAYAVMSRNSLQQGDVDGAQRLGRVAKLLSIVALVGGVLIIIASCVINLGVYK

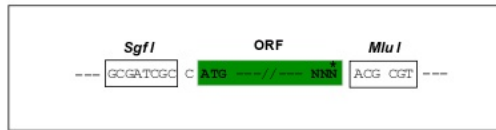
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1787\\_g06.zip](https://cdn.origene.com/chromatograms/ja1787_g06.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001102563

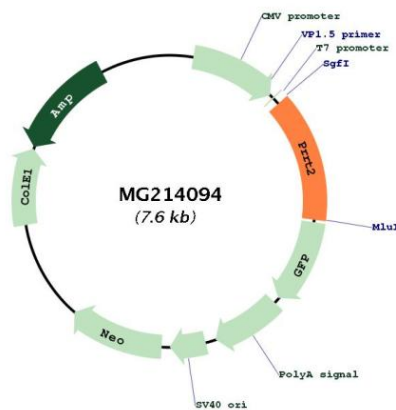
**ORF Size:** 1038 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001102563.1</a> , <a href="#">NP_001096033.1</a>
<b>RefSeq Size:</b>	2510 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	69017
<b>UniProt ID:</b>	<a href="#">E9PUL5</a>
<b>Cytogenetics:</b>	7 F3
<b>Gene Summary:</b>	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 MG214094