

## Product datasheet for RN204947

### Prrt1 (NM\_001032285) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prrt1 (NM_001032285) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prrt1
Synonyms:	DSPD1; Ng5; Orf31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN204947 representing NM_001032285 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGTCAGAAAAGTCAGGCCTTCCAGACTCGGTTCCACACTTCACCTCCGCCCTACAATGCCCCC  
AACCTCCAGCCGAGCCCCCATCCCTCCCCACAAACCGCTCCATCCTCATCATCACCACCACCA  
CTACCACAGTCTGGCACTGCCACCCTCCCGCTTAGGAGCAGGTGGCCTGCTGCGGTGGC  
GCTCAACGTGGTCTTCTGCTCTGCCAGCTACCGCGGCCCCACCATGCCCTCCCGTCCCGT  
CTGGGGTCCCCACCCGGTGTGCTACCTACCCGCATGCCACCCGACCTTATCTGCAGGAGACTCG  
CTTCGAGGGTCCACTTCCCCACCACCGCTGCGGCCGCCGCCACCACCAGCGCCTGCCCGAGC  
GCCAAGCCCCAGGCTTCGTGGTGGCCACGCACGCGGGGGCGGTGGGCACGTTGCCGCTGGGGGTACG  
TGGCTCCGGGTACCCGCTGCAGCTGCAGCCGTGCACCGTTATGTCGGTGTATCCGGTGGGCACGCC  
CTACGCAAGCGGGACCCCGGGGTCCAGGAGTGACCTCCACTCTGCCCCGCCGCCAGGGCCAGGG  
TTGGCTCTGTTGGAGCCAGGCGCCCGCCATGACTACATGCCATCGCTGTGCTGACCACCATCTGCT  
GCTTCTGGCCACAGGCATCATCGCCATTTCAAGCCGTGCAGGTGCGCACGGCCTTGGCCCGGAGA  
CTTGGTGTCCCGGAGATCGCTTCGCGCAGGCCCGGAATTTCTCTTCATCTCCCTGGCCGTGGGCATC  
GCAGCTATGGTGCTTTGTACCATCTCACTGTAGTCATCATCATTGCCGCCAGCACCAAAACTACT  
GGGATCCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja3667\\_a07.zip](https://cdn.origene.com/chromatograms/ja3667_a07.zip)

Restriction Sites: Sgfl-Mlul



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<b>ACCN:</b>	NM_001032285
<b>Insert Size:</b>	921 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).</p>
<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>	<u><a href="#">NM_001032285.1</a>, <a href="#">NP_001027456.1</a></u>
<b>RefSeq Size:</b>	1949 bp
<b>RefSeq ORF:</b>	921 bp
<b>Locus ID:</b>	406167
<b>UniProt ID:</b>	<u><a href="#">Q6MG82</a></u>
<b>Cytogenetics:</b>	20p12
<b>Gene Summary:</b>	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]