

Product datasheet for **MC214247**

Prrt1 (NM_030890) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prrt1 (NM_030890) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prrt1
Synonyms:	Bat-4; Bat4; D17H6S54E; DSPD1; G5b; NG5; ORF31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214247 representing NM_030890 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTCAGAAAAGTCAGGCCTTCCAGACTCGGTTCCACACTTCACCGCCGCCCTACAATGCCCCC
AGCCACCGGCCGAGCCCCCATCCCGCCCCACAAACGGCCCCATCCTCACATCACCACCACCACCACCA
TTACCACCAGTCTGGCACCGCCACCCTCCCGCCTTAGGAGCAGGTGGCCTGGCCTCTGCTGCGGCCAGT
GCTCAACGCGGTCTTCGTTCCGCCACGCTACCGCGGCCCCCCACCATGCCCGCCCCGCCCGCCG
CTGGGGTCCCCACCCGGCTGTGCTACCTTACCCCGCATGCCACCCGACCTTATCTGCAGGAGACTCG
CTTCGAGGGTCCACTTCCCCACCACCGCTGCGGCCGCCGCCGCCACCAGCGCCTGCCCGACG
GCCAAGCCCCGGGCTTCGTGGTCCCACGCACGCGGGGGCGGTGGGCACGTTGCCGCTGGGGGGTACG
TGGCGCCGGGCTACCCGCTGCAGCTGCAGCCGTGCACTGCTTATGTCCTGTGTATCCGGTGGGCACGCC
CTACGCAGGCGGGACCCCGGGGTCCTGGAGTGACCTCCACTCTGCCCGCCGCCAGGGCCAGGA
TTGGCTCTGTTGGAGCCAGGCGTCCGCCACAGACTACATGCCATCGCTGTGCTGACCACCATCTGCT
GCTTCTGGCCACAGGCATCATCGCCATCTTCAAGCCGTGCAAGTGGCAGCGGCTTTGGCCCGGAGA
TTTGGTGTCTGCCGAGATCGCTTACGCGAAGCCCGGAATTTCTCCTTCTATCCCTGGCCGTGGGCATC
GCAGCCATGGTGCTTTGTACCATCTCACTGTAGTCATCATCATCGCCGCCAGCACCACGAAACTACT
GGATCCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1667_c02.zip

Restriction Sites: Sgfl-Mlul



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ACCN:	NM_030890
Insert Size:	921 bp
OTI Disclaimer:	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).
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:	NM_030890.1 , NP_112152.1
RefSeq Size:	921 bp
RefSeq ORF:	921 bp
Locus ID:	260297
UniProt ID:	O35449
Cytogenetics:	17 B1
Gene Summary:	Required to maintain a pool of extrasynaptic AMPA-regulated glutamate receptors (AMPA) which is necessary for synapse development and function (PubMed:29490264). Regulates AMPAR function and synaptic transmission during development but is dispensable at mature hippocampal synapses (PubMed:29490264, PubMed:31216424). Plays a role in regulating basal phosphorylation levels of glutamate receptor GRIA1 and promotes GRIA1 and GRIA2 cell surface expression (PubMed:31216424).[UniProtKB/Swiss-Prot Function]