

Product datasheet for MR221410

Prrt1 (NM_030890) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prrt1 (NM_030890) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR221410 representing NM_030890 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTGAGAAAAGTCAGGCCTTCCAGACTCGGTTCCCCACACTTCACCGCCGCCCTACAATGCCCCC
AGCCACCGGCCGAGCCCCCATCCCGCCCCACAACGGCCCCATCCTCACATCACCACCACCACCACCA
TTACCACCAGTCTGGCACCGCCACCTCCCGCGTTAGGAGCAGGTGGCCTGGCCTCTGCTGCGGCCAGT
GCTCAACGCGGTCTTCGTCTCCGCCACGCTACCGCGGCCCCCCACCATGCCCGCCCCGCCCGCCG
CTGGGGTCCCCACCGGCTGTGCTACCTTACCCCGCATGCCACCCGACCTTATCTGCAGGAGACTCG
CTTCGAGGGTCCACTTCCCCACCACCGCTGCGGCCGCCGCCGCCGCCACCAGCGCCTGCCCGACG
GCCAAGCCCCGGGCTTCGTGGTCCCACGCACGCGGGGGCGGTGGGCACGTTGCCGCTGGGGGGTACG
TGGCGCCGGGCTACCCGCTGCAGCTGCAGCCGTGCACTGCTTATGTCCCTGTGTATCCGGTGGGCACGCC
CTACGCAGGCGGGACCCCCGGGGTCTGGAGTGACCTCCACTCTGCCCGCCGCCAGGGCCAGGA
TTGGCTCTGTTGGAGCCAGGCGTCCGCCACGACTACATGCCATCGCTGTGCTGACCACCATCTGCT
GCTTCTGGCCACAGGCATCATCGCCATCTCAAGGCCGTGAGGTGCGCACGGCTTTGGCCCGGAGA
TTTGGTGTCTGCCGAGATCGCTTACGCGAAGCCCGGAATTTCTCTTCACTCTCCCTGGCCGTGGGCATC
GCAGCCATGGTCTTTGTACCATCTCACTGTAGTCATCATCATCGCCGCCAGCACCACGAAACTACT
GGATCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221410 representing NM_030890
Red=Cloning site Green=Tags(s)

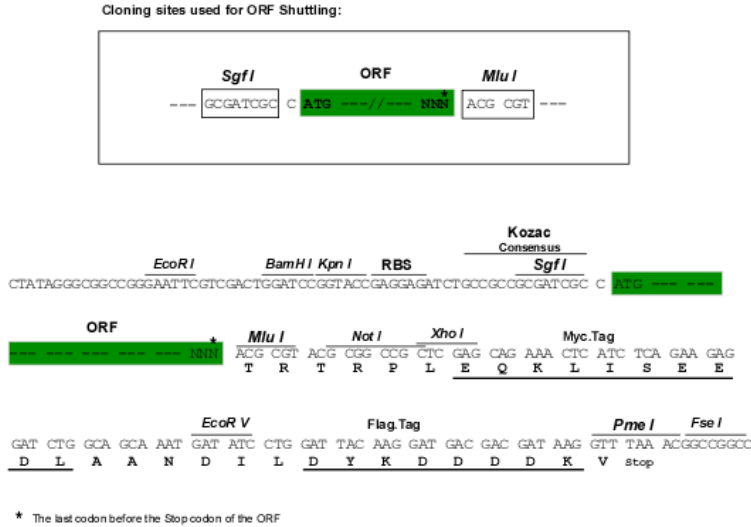
MSSEKSGLPDSVPHTSPPPYNAPQPPAEPPIPPPQTAPSSHHHHHHYHQSQTATLPRLGAGGLASAAAS
 AQRGPSSSATLPRPPHHAPPGPAAGAPPPGCATLPRMPPDPYLQETRFEGPLPPPPAAAAAPPPAPAPT
 AQAPGFVVPHTAGAVGTLPLGGYVAPGYPLQLQPCTAYVPVYPVGTPTYPAGGTPGGPGVTSTLPPPPQGGP
 LALLEPRRPPHDYMPIAVLTTICCFWPTGIIAIFKAVQVRTALARGDLVSAEIASREARNFSFISLAVGI
 AAMVLCITLTVVIIIAAQHHENYWDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030890

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_030890.2](#)

RefSeq Size: 921 bp

RefSeq ORF: 921 bp

Locus ID: 260297

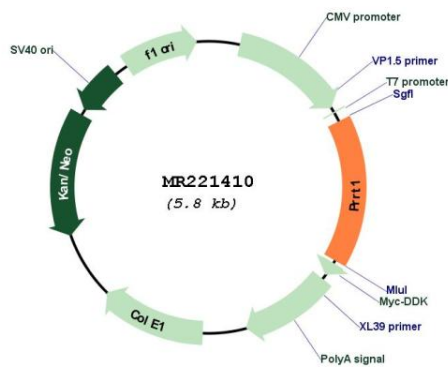
UniProt ID: [O35449](#)

Cytogenetics: 17 B1

MW: 31.8 kDa

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]

Product images:



Circular map for MR221410