

Product datasheet for RR216429

Prrt2 (NM_001276470) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prrt2 (NM_001276470) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prrt2
Synonyms: DSPB3; RGD1564195
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216429 representing NM_001276470
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCCAGTAGCTCTGAGGTCTCTGAGATGAAGGGGGTAGAAGACAGTTCCAACACCCACTCAGAAG
 GTCCCAGGCATTCTGAAGAAGGAATGGTCTGTCCAGTTGTAGCAGAGAACCCTAGACCAGCCAGAGGC
 CCTTCAGTCAGGCCAGACACCCTGCAGCCCCTGTGGACTCAGGGCCTAAGGCTGAGCTGGCACCAGAA
 ACCACAGAGACCCAGTTGAAACCCAGAAACAGTCCAGGCCACAGACCTCAGTGTAAACCCAGGAGAAG
 ACTCCAAAACCTGCCCCAGCCCCAAGAGGCATGCCAAGAGCCGGCATCCAGACCAGAGGTGAACAGAGA
 GGCTACAGCAGAGCAAGGGGCTGAGCAGCAGTCTGCAGCCCCTCTGAGCCAACCTCAGAGCAGGCTTTG
 CAGCTAAATACCCAGTCAGACCCCTCAGCCAACCTCCCAGCCTCCTCTAAACCACCCCTTCAGGCAGAGC
 CCCCCACCAAGAGAACCCTACCACAGAGGTCTGACAGAAAGTACAGGGGAAAAACAAGAAAATGGAGC
 AGTGGTCCCCTTCAGGCTGGTGTGAGGGAAAGAGGGCCAGCCCCCAGCCTCACTCACCACCCTCACT
 AAAACACCCAGCCAATGGTGCACCCCCCGTGTCTGCAGAAGCTGGTTGAGGAAGACAGAATAGGAA
 GGGCTCATGGTGGGCATCCAGGATCTCCTCGAGGTAGCCTAAGCCGTCATCCCAGTCCCAGCTGGCAGG
 TCCTGGGGTGAAGGGGGTGAAGGCACCCAGAAACCTCGGGACTATATCATCCTTGCCATCCTGTCTCTGC
 TTCTGCCCATGTGCCCTGTCAACATTGTGCCCTTCGCTTATGCCGTCATGTCCCAGAACAGCCTGCAAC
 AGGGGGACGTGGATGGGGCTCAACGTCTGGGTCGAGTAGCCAAGCTCTTAAGCATCGTGCGCCTGGTTGG
 GGGGTCCTCATCATCATCGCCTCTGCGTCATCAACTTAGCGGTGATAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216429 representing NM_001276470
 Red=Cloning site Green=Tags(s)

MAASSSEVSEMKGVEDSSNTHSEGPRHSEEGMGPVQVVAENLDQPEALQSGPDTTAAPVDSGPKAELAPE
 TTETPVPETPVQATDLVSNPGEDSKTSPKACQEPASRPEVNREATAEQGAEQQSAAPPEPTSEQAL
 QLNTQSDPQPTSQPPKPLQAEPTQENPTTEVLTESTGEKQENGAVPLQAGDGEEGPAPQPHSPST
 KTPPANGAPRVLQKLVEEDRIGRAHGGHPGSPRGLSRHPSSQLAGPGVEGEGTQKPRDYIILAILSC
 FCPMWPVNI VAFAYAVMSRNSLQQGDVDGAQRLGRVAKLLSIVALVGGVLI I I I ASCVINLGVYK

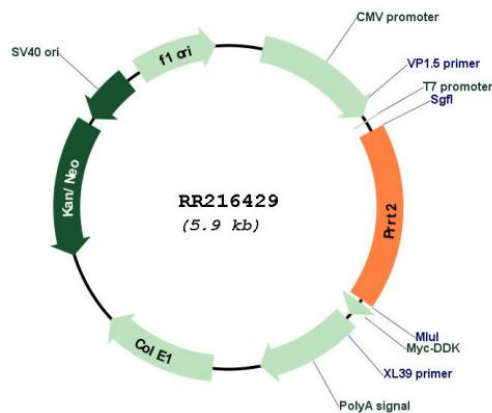
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276470

ORF Size: 1032 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:	<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_001276470.1 , NP_001263399.1
RefSeq Size:	2413 bp
RefSeq ORF:	1035 bp
Locus ID:	361651
UniProt ID:	D3ZFB6
Cytogenetics:	1q37
MW:	35.8 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. In the cerebellum, may inhibit SNARE complex formation and downregulate short-term facilitation.[UniProtKB/Swiss-Prot Function]