

Product datasheet for **RN216429**

Prrt2 (NM_001276470) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prprt2 (NM_001276470) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prprt2
Synonyms:	DSPB3; RGD1564195
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN216429 representing NM_001276470 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGCCAGTAGCTCTGAGGTCTCTGAGATGAAGGGGTAGAAGACAGTTCCAACACCCACTCAGAAG
GTCCCAGGCATTCTGAAGAAGGAATGGTCTGTCCAGGTTGTAGCAGAGAACCTAGACCAGCCAGAGGC
CCTTCAGTCAGGCCAGACACCACTGCAGCCCTGTGGACTCAGGCCTAAGGCTGAGCTGGCACCAGAA
ACCACAGAGACCCAGTTGAAACCCAGAAACAGTCCAGGCCACAGACCTCAGTGTAAACCCAGGAGAAG
ACTCCAAAACCTGCCCCAGCCCCAAAGAGGCATGCCAAGAGCCGGCATCCAGACCAGAGGTGAACAGAGA
GGCTACAGCAGAGCAAGGGGCTGAGCAGCAGTCTGCAGCCCTCTGAGCCAACCTCAGAGCAGGCTTTG
CAGCTAAATACCCAGTCAGACCCCTCAGCCAACCTCCCAGCCTCCTCTAAACCACCCCTTCAGGCAGAGC
CCCCACCCAAGAGAACCCTACCACAGAGGTCTGACAGAAAGTACAGGGGAAAAACAAGAAAATGGAGC
AGTGGTCCCCTTCAGGCTGGTGTGAGGGAAAGAGGGCCAGCCCCCAGCCTCACTCACCACCCCTCACT
AAAACACCCAGCCAATGGTGCACCCCTGTGTCTGCAGAAGCTGGTTGAGGAAGACAGAATAGGAA
GGGCTCATGGTGGGCATCCAGGATCTCCTCGAGGTAGCCTAAGCCGTCATCCAGCTCCCAGCTGGCAGG
TCCTGGGGTGAAGGGGTGAAGGCACCCAGAAACCTCGGACTATATCATCCTTGCCATCCTGTCTCTGC
TTCTGCCCATGTGGCCTGTCAACATTGTGGCCTTCGCTTATGCCGTCATGTCCCAGAACAGCCTGCAAC
AGGGGACGTGGATGGGGCTCAACGTCTGGGTCGAGTAGCCAAGCTCTTAAGCATCGTGGCCTGGTTGG
GGGGTCTCATCATCATCGCCTCTGCCTCATCAACTTAGCGGTGATAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001276470



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Insert Size:	1035 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001276470.1</u> , <u>NP_001263399.1</u>
RefSeq Size:	2413 bp
RefSeq ORF:	1035 bp
Locus ID:	361651
UniProt ID:	<u>D3ZFB6</u>
Cytogenetics:	1q37
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>