

## Product datasheet for RC233971

### PRRT2 (NM\_001256442) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRRT2 (NM_001256442) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRRT2
Synonyms:	BFIC2; BFIS2; DSPB3; DYT10; EKD1; FICCA; ICCA; IFITMD1; PKC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233971 representing NM_001256442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCCAGCAGCTCTGAGATCTCTGAGATGAAGGGGTTGAGGAGAGTCCCAAGTTCCAGGCGAAG  
GGCCTGGCCATTCTGAAGCTGAACTGGCCCTCCCAGGTCTAGCAGGGGTACCAGACCAGCCAGAGGC  
CCCGCAGCCAGGTCCAAACACCACTGCGGCCCTGTGGACTCAGGGCCCAAGGCTGGGCTGGCTCCAGAA  
ACCACAGAGACCCCGGCTGGGGCTCAGAAACAGCCAGGCCACAGACCTCAGCTTAAGCCAGGAGGGG  
AATCAAAGGCCAACTGCAGCCCCGAAGACCCATGCCAAGAAACAGTGTCAAACCAGAAGTGAGCAAAGA  
GGCCACTGCAGACCAGGGGTCCAGGCTGGAGTCTGCAGCCCCACCTGAACCAGCCCCAGAGCCTGCTCCC  
CAACCAGACCCCGGCCAGATTCACAGCCTACCCCAAGCCAGCCCTTCAACCAGAGCTCCCTACCCAGG  
AGGACCCACCCCTGAGATTCTGTCTGAGAGTGTAGGGGAAAAGCAAGAGAATGGGGCAGTGGTGCCCT  
GCAGGCTGGTGATGGGGAAGAGGGCCAGCCCTGAGCCTCACTCACCACCCTCAAAAAATCCCCCCA  
GCCAATGGGGCCCCCCCCGAGTGTGCAGCAGCTGGTTGAGGAGGATCGAATGAGAAGGGCACACAGTG  
GGCATCCAGGATCTCCCGAGGTAGCCTGAGCCGCCACCCAGCTCCAGCTGGCAGGTCTGGGGTGA  
GGGGGTGAAGGCACCCAGAACTCGGGACTACATCATCCTTGCATCCTGTCTGCTTCTGCCCATG  
TGGCCTGTCAACATCGTGGCCTTCGCTTATGCTGTCATGTCCCAGAACAGCCTGCAGCAGGGGGACGTGG  
ACGGGGCCAGCGTCTGGCCGGGTAGCCAAGCTCTTAAGCATCGTGGCGCTGGTGGGGGAGTCCCTCAT  
CATCATCGCCTCCTGCGTCATCAACTTAGCGGGTGAAGGGGGCTGGGACAGGCAGGGGAGGAATGGAA  
GGGTTGGCAAGGGCAGCTTACTAACCCTGCCCTGCTCTCTCTGCTGCTCCTCCTTACCTCTCCTTT  
GTCTCTCCTTGTCTCCCCCTCCCCCGTGTGCTTCCCTCTCCTCTCCACAGTGATAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233971 representing NM\_001256442  
 Red=Cloning site Green=Tags(s)

MAASSSEISEMKGVEESPKVPGEVGHSEAEAGPPQVLAVPDQPEAPQPGPNTTAAVDSGPKAGLAPE  
 TTETPAGASETAQATDLSPGGESKANCSPEDPCQETVSKPEVSKEATADQGSRLSESAAPPEPAPEPAP  
 QPDRPDSQPTPKPALQPELPTQEDPTPEILSESVGEKQENGAVVPLQAGDGEVPAPEPHSPSSKSSPP  
 ANGAPPRVLQQLVEEDRMRRRAHSGHPGSPRGLSRHPSSQLAGVGEVGGEGTQKPRDYIILAILSCFCPM  
 WPVNIVAFAYAVMSRNSLQQGDVDGAQRLGRVAKLLSIVALVGGVLIILIIASCVINLGGEWGLGTGRGGME  
 GLARAALLTPAPALSCLSSPLLLCLSLSPPPPVCPSLSSPTVYK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001256442

**ORF Size:** 1182 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\\_001256442.1](#), [NP\\_001243371.1](#)

**RefSeq Size:** 2768 bp

**RefSeq ORF:** 1185 bp

**Locus ID:** 112476

**UniProt ID:** [Q7Z6L0](#)

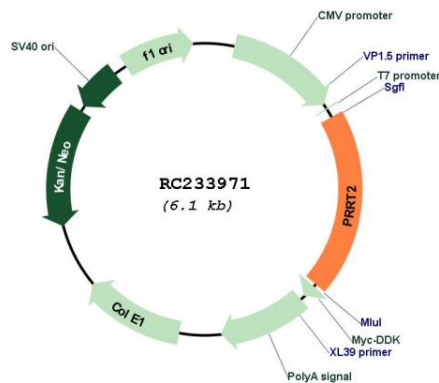
**Cytogenetics:** 16p11.2

**Protein Families:** Transmembrane

**MW:** 40.7 kDa

**Gene Summary:** This gene encodes a transmembrane protein containing a proline-rich domain in its N-terminal half. Studies in mice suggest that it is predominantly expressed in brain and spinal cord in embryonic and postnatal stages. Mutations in this gene are associated with episodic kinesigenic dyskinesia-1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

### Product images:



Circular map for RC233971