

## Product datasheet for **RR211679**

### Pat11 (NM\_001108520) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pat11 (NM_001108520) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pat11
Synonyms:	Pat1b; RGD1305514
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR211679 representing NM\_001108520  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCCGCTACGAGTCTTTGGAGGATTGCTCTAGATGAAGATGAAGATGCATTT**CAGGGCCTGGGAG**  
 AAGAAGATGAAGAAATTGATCAATTTAATGATGATACATTTGGATCAGGTGCAGTTGATGACGATTGGCA  
 GGAAGCACATGAGCGCCTGGCTGAGTTGGAAGAGAAGTTACCTGTGCAGCTGATGAACAAACAGGCAAT  
 GGAGAGAGAGATGAGATGGACTTGTGGGTGACCATGAGGAGAATCTAGCAGAAAGGCTCAGCAAGATGG  
 TGATTGAAAATGAGCTAGAAGATCCAGCTGTCTGAGGGCAGTGCAGACCAGGCCAGTTTACAACCTCA  
 ACCAGGAAGTCTGAATCCAGCATCTGGGATGGATCTGAAGTTCTGAGGCGAATCCGTGGACCACTGCTT  
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 TAGAGCTGTTCTATAGGCACCCACCTAAGCAGATGGCGTTCCAGCTTCAACCAACAGATTCTGTGT  
 CCGAAGCCTGTTCAATGTCGGGCCCAATGCCACCACGTTATCCTGCTCCCTATGGTGAGAGGATGTCTC  
 CAAACCAGCTCTGCAGTGTCCCGAACTCCTCCCTCCTGGGCCACCCTTTTCTCCTAGTGTCTCTCTGT  
 ACTCAGTCTCTGCAGAGAGCACAGCTTCTGGGAGGAGCACTACAGCCTGGACGAATGTCTCCACGC  
 CAGTTCGCACGGGTCCCTGGATTGTTGGTAGCCATTGGCTGCCATGAATCCTAAGTTGCTACAAGGGC  
 GTGTTGGGCAGATGCTTCTCCAGCACCAGGCTTCCGTGCCTTCTCAGTGTCCACCCCTGCCACGCC  
 ACCTCCACAGCAACCCCTCCTGGCCCAGGACCTCACCTCCAGAACCTAAGACCTCAGGCCCAATGTTT  
 AGACCAGACAACTCACCTTCATCCACAGCACCAGGCGCTGCTGCACCAGAGGCAGCTGCAAAGTAGAA  
 ATCAGCATCGAAATCTCAATGGTACTGGAGACAGAGGAGGTACCAGGTTAGTCATCAAGATCATCTCCG  
 GAAGGATCCATATGCTAATCTAATGTTGACGCGGAAAAGGATTGGGTCTCTAAAATCCAATGATGCAG  
 CTGCAGAGCACTGATCCCTACCTGGATGATTTCTATTACCAGAATTACTTTGAAAAGCTGGAGAAATCGT  
 CAGCTGTGAAGAAATGCAAGGTGACGGCCCTAAGAAGGAGCGCACCAAGCTCATCACCCCTCAGGTGGC  
 CAGACTGGAGCACGCCTACAAGCCTGTGCAGTTTGGGGCTCTTTGGGAACTTACTGTCTCTAGTGTG  
 AATAATCCTCGGAAGATGATAGATGCTGTTGTGACATCTCGGAGTGAGGATGATGAAACAAAAGAAAAAC  
 AAGTTCGGGATAAAAAGAAGAAAAACCTTGTCAATTTGAGAAAACCTATAGTTTACTCCTTGATGTGGA  
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 TTGTACAAATCATGTGTATCCGAAAAGGGAAGAGAATGGTTGCCCGATTCTCCCTTTCTCTCCACAGA  
 GCAAGCAGCTGACATTCTCATGGCAACTGCCAGGAACCTCCCTTTCTTATCAAGAAGGACGCACAAGAT  
 GAGGTGCTGCCATGCTTACTGAGTCCCTTCTCTCTCTCTCTATCATCTTCTTCAAGTACTGTCACCA  
 GCCTTCTGCAACAGCTAATGAACCTACCTCAAAGTGAACCTGCACCAGCACCCCTTAACCTCACCTCAC  
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 AGTTCAGATCCTACTGTAGAATCAACGCAAAATAACCAGTGGACAGAGGTGATGTTTATGGCAACCCAAG  
 AACTTCTACGGATCCCCAAGCAGCCCTGGCCAAGCCAATCTCTATACCCACAAATCTAGTGTCTCTCTT  
 TTCTCGCTATGTTGACCGGCAGAACTGAACCTGCTGGAGACAAAACCTGCAGCTGGTTCAGGGGATGCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211679 representing NM\_001108520  
 Red=Cloning site Green=Tags(s)

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MFRYESLEDCPLDEDEDAFQGLGEEDEEIDQFNDDTFGSGAVDDDDQEAHERLAEL EEKLPVAADEQ TGN
GERDEM DLLGDHEENLAERLSKMVIENELEDP AVMRAVQTRPVLQPQPSLNSSIWDGSEVLRRIRGPLL
AQEMPTVSVLEYALPQRPPQGPEDDRDLSERALPRRSTSPIIGSPPVRAVPIGT PPKQMAVPSFNQQILC
PKPVHVRPPMPPRYPAPYGERMSPNQLCSVPNSSLLGHPFPSSVPPVLSPLQRAQLLGGAQLQPGRMSPS
QFARVPGFVGSPLAAMNP KLLQGRVQMLPAPGFRAFFSAPPPATPPPQHPGPGPHLQNL RPQAPMF
RPDTHLHPQHRRLLHQ RQLQSRNQHRNLNGTGD RGGHRVSHQDHLRKDPYANMLQREKDWVSKIQQMMQ
LQSTDPYLDDFYQNYFEKLEKSSAAEEMQGDGPKKERTKLITPQVARLEHAYKPVQFEGSLGKLT VSSV
NNPRKMIDAVVTSRSEDETKEKQVRDKRRKTLVIEKTYSLLLDVEDYERRYLLSLEEERPALTDERKH
KIWSMYDNLRGKLPGQERPSDDHFVQIMCIRK GKRMVARILPFLSTEQAADILMATARNLPFLIKKDAQD
EVLPCLLSPFSLLLYHLPSVTVTSL LQQLMNL PQSATAPAPSNSHLTAVLQNKFGLSLL ILLSRGEDLH
SSDPTVESTQNNQWTEVMFMATQELLRIPQAALAKPISIPTNLVSLFSRYVDRQKLNLL ETKLQLVQGM R
    
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001108520

**ORF Size:** 2310 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\\_001108520.2](#), [NP\\_001101990.1](#)

**RefSeq Size:** 4007 bp

**RefSeq ORF:** 2313 bp

**Locus ID:** 361736

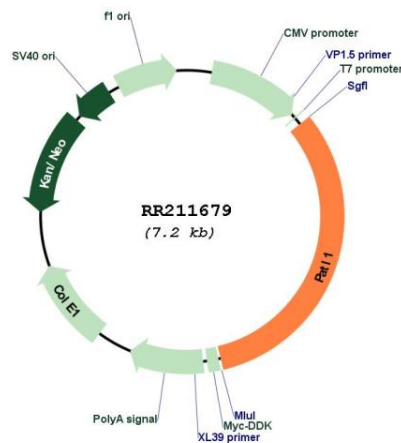
**UniProt ID:** [B5DF93](#)

**Cytogenetics:** 1q43

**MW:** 86.9 kDa

**Gene Summary:** RNA-binding protein involved in deadenylation-dependent decapping of mRNAs, leading to the degradation of mRNAs. Acts as a scaffold protein that connects deadenylation and decapping machinery. Required for cytoplasmic mRNA processing body (P-body) assembly (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR211679