

Product datasheet for **RN211679**

Pat1 (NM_001108520) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pat1 (NM_001108520) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pat1
Synonyms:	Pat1b; RGD1305514
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211679 representing NM_001108520
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCGCTACGAGTCTTTGGAGGATTGCTCTAGATGAAGATGAAGATGCATTTCAGGGCCTGGGAG
 AAGAAGATGAAGAAATTGATCAATTTAATGATGATACATTTGGATCAGGTGCAGTTGATGACGATTGGCA
 GGAAGCACATGAGCGCCTGGCTGAGTTGGAAGAGAAGTTACCTGTGCAGCTGATGAACAAACAGGCAAT
 GGAGAGAGAGATGAGATGGACTTGTGGGTGACCATGAGGAGAATCTAGCAGAAAGGCTCAGCAAGATGG
 TGATTGAAAATGAGCTAGAAGATCCAGCTGTCTGAGGGCAGTGCAGACCAGGCCAGTTTACAACCTCA
 ACCAGGAAGTCTGAATCCAGCATCTGGGATGGATCTGAAGTTCTGAGGCGAATCCGTGGACCACTGCTT
 GCTCAGGAAATGCCTACAGTGTCTGTATTAGAATATGCCTTGCCTCAGAGGCCCCACAGGGCCAGAAG
 ATGACCGGACCTTTCTGAGCGAGCTTTACCAAGGCGGTCAACATCACCTATCATTGGAAGTCTCTGT
 TAGAGCTGTTCTATAGGCACCCACCTAAGCAGATGGCGTTCCAGCTTCAACCAACAGATTCTGTGT
 CCGAAGCCTGTTTCATGTCGGGCCCCCAATGCCACCACGTTATCCTGCTCCCTATGGTGAGAGGATGTCTC
 CAAACCAGCTCTGCAGTGTCCCGAACTCCTCCCTCCTGGGCCACCCTTTTCTCCTAGTGTCTCTCTGT
 ACTCAGTCTCTGCAGAGAGCACAGCTTCTGGGAGGAGCACTACAGCCTGGACGAATGTCTCCACGC
 CAGTTCGCACGGTCCCTGGATTTGTTGGTAGCCATTGGCTGCCATGAATCCTAAGTTGCTACAAGGGC
 GTGTTGGGCAGATGCTTCTCCAGCACCAGGCTTCCGTGCCTTCTCAGTGTCCACCCCTGCCACGCC
 ACCTCCACAGCAACCCCTCCTGGCCCAGGACCTCACCTCCAGAACCTAAGACCTCAGGCCCAATGTTT
 AGACCAGACAACTCACCTTCATCCACAGCACCAGGCGCTGCTGCACCAGAGGCAGTGCAAAAGTAGAA
 ATCAGCATCGAAAATCTCAATGGTACTGGAGACAGAGGAGGTACCAGGTTAGTCATCAAGATCATCTCCG
 GAAGGATCCATATGCTAATCTAATGTTGTCAGCGGAAAAGGATTGGGTCTCTAAAATCCAAATGATGCAG
 CTGCAGAGCACTGATCCCTACCTGGATGATTTCTATTACCAGAATTACTTTGAAAAGCTGGAGAAATCGT
 CAGCTGTGAAGAAATGCAAGGTGACGGCCCTAAGAAGGAGCGCACCAAGCTCATCACCCCTCAGGTGGC
 CAGACTGGAGCACGCTACAAGCCTGTGCAGTTTGGGGCTCTTTGGGAACTTACTGTCTCTAGTGTG
 AATAATCCTCGGAAGATGATAGATGCTGTTGTGACATCTCGGAGTGAGGATGATGAAACAAAAGAAAAAC
 AAGTTCGGGATAAAAAGAAAAACCCTTGTGATAATTGAGAAAACCTATAGTTTACTCCTTGATGTGGA
 GGATTATGAAAGGCGCTATCTCCTAAGTCTAGAGGAAGAGCGGCCTGCCCTGACAGATGAAAGAAAGCAC
 AAAATCTGGAGCATGTATGACAACCTGAGAGGCAAATTGCCTGGCAAGAGAGGCCAAGTGTGACCACT
 TTGTACAAATCATGTGTATCCGAAAAGGGAAGAGAATGGTTGCCCGATTCTCCCTTTCTCTCCACAGA
 GCAAGCAGCTGACATTCTCATGGCAACTGCCAGGAACCTCCCTTTCTTATCAAGAAGGACGCACAAGAT
 GAGGTGCTGCCATGCTTACTGAGTCCCTTCTCTCTCTCTCTATCATCTTCTTCACTGACTGTACCA
 GCCTTCTGCAACAGCTAATGAACCTACCTCAAAGTGAACCTGCACCAGCACCCCTAAGTCTCACCTCAC
 TGCTGTGCTCCAGAACAAGTTGGCTTGTCACTGCTCCTAATCCTCTTAAGCCGTGGGGAAGACCTACAT
 AGTTCAGATCCTACTGTAGAATCAACGCAAAATAACCAGTGGACAGAGGTGATGTTTATGGCAACCCAAG
 AACTTCTACGGATCCCCAAGCAGCCCTGGCCAAGCCAATCTCTATACCCACAAATCTAGTGTCTCTCT
 TTCTCGCTATGTTGACCGGCAGAACTGAACTTGTCTGGAGACAAAACCTGCAGCTGGTTCAGGGGATGCCA
 TAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001108520
 Insert Size: 2313 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).
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_001108520.2</u> , <u>NP_001101990.1</u>
RefSeq Size:	4007 bp
RefSeq ORF:	2313 bp
Locus ID:	361736
UniProt ID:	<u>B5DF93</u>
Cytogenetics:	1q43
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]