

## Product datasheet for **RN212025**

### **Padi2 (NM\_017226) Rat Untagged Clone**

#### **Product data:**

|                           |                                      |
|---------------------------|--------------------------------------|
| Product Type:             | Expression Plasmids                  |
| Product Name:             | Padi2 (NM_017226) Rat Untagged Clone |
| Tag:                      | Tag Free                             |
| Symbol:                   | Padi2                                |
| Synonyms:                 | Pdi2                                 |
| Mammalian Cell Selection: | Neomycin                             |
| Vector:                   | pCMV6-Entry (PS100001)               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                 |



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**Fully Sequenced ORF:** >RN212025 representing NM\_017226  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGGGAGCGGACCGTACGGCTGCAATACGGGAGCCGCGTGGAGGCGGTGTACGTGCTGGGCACGC  
 AGCTCTGGACCGATGTCTACAGTGCAGCGCCTGCTGGGGCCAAAACCTTCAGCCTGAAGCACTCGGAGGG  
 TGTGAAAGTAGAGGTCGTGCGCGATGGAGAGGCAGAGGAGGTAGTCACCAACGGCAAGCAGCGTTGGGCC  
 CTGTCACCCAGCACCACACTGCGACTCAGCATGGCCAGGCCAGCACCGAGGCCAGCAGCGACAAGGTCA  
 CCGTCAACTACTATGAAGAGGATGGCAGTGCCCTATTGACCAGGCTGGGCTCTTCTCACTGCCATTGA  
 GATCTCACTGGATGTGGACGCAGACCGGGACGGAGAAGTGGAGAAGAATAATCCTAAGAAGGCATCTGG  
 ACCTGGGGTCTGAGGGCCAGGGGGCCATCCTGCTGGTGAAGTGTGACCGAGACACACCCTGGTTGCCCA  
 AGGAGGACTGCAGTGTAAAAGGTCTACAGCAAACAAGACCTTCAGGACATGTCTCAGATGATCCTGAG  
 GACCAAAGGCCCTGACCGCCTGCCGCCGGGTATGAAATAGTCTCTACATTTCTATGTCGGACTCGGAC  
 AAAGTGGGCGTGTCTAGTGGAGAACCCGTTCTTTGGCCAGCGCTACATCCACATCCTGGGCCGGCAGA  
 AGCTCTACCACGTGGTGAAGTACACCGGTGGCTCTGCAGAGTTGCTGTTCTTCTGGAAGGCCTCCGTTT  
 CCCAGACGAGAGTTTCTCAGGCCTGGTTTCCATCCACGTCACTGCTGGAGTATATGGCCGAGGACATC  
 CCATTGACACCCATCTTCACAGACACCGTGACGTTCCGGATTGCCCATGGATTATGACACCCAACATCC  
 TGCCTCCCGTGTCAAGTGTGTTGTGCTGCATGAAGGACAATTACCTGTTCTGAAAGAGGTGAAGAACCT  
 GGTGGAGAAAACCAACTGCGAGCTGAAAGTTTGTTCAGTACATGAATCGTGGCAGCCGCTGGATCCAG  
 GATGAAATTGAGTTTGGCTACATTGAGGCACCTCACAAGGCTTCCAGTAGTGTGACTCCCTCGAG  
 ATGGAAACCTGAAGGACTTCCCAATTAAGCAACTCCTGGGCCAGATTTCCGCTATGTGACCCGGGAGC  
 CCTCTTTGAGACTGTCACCAAGCCTTACTCCTTCGGGAATCTGGAGGTCAGTCCCCAGTGACCGTGAAT  
 GGCAAGGCATACCCGCTTGGCCGGATCCTCATCGGGAGCAGTTTCCCTCTGTCTGGAGGCAGGAGGATGA  
 CCAAGGTGGTGCCTGACTTCTGCAGGCCAGCAGGTGCAGGCGCCCGTGGAACTCTACTCGATTGGCT  
 GACTGTGGGCCACGTCGATGAGTTCATGACCTTCGTCCCATCCAGGCAAAAAGGAATTTCCGCTGCTC  
 ATGGCCAGCACCTCAGCCTGCTACCAGCTTTCAGAGAAAAGCAGAAGGAAGGCCACGGGGAGGCCATTA  
 TGTTCAAGGGTCTGGGGGCATGAGCAGCAAACGAATCACCATCAATAAGATCCTGTCCAATGAGAGCCT  
 CACGCAGGAAAACAGTACTTTACGCGTGTCTGGATTGGAACCGTGACATCCTTAAGAAGGAGCTGGCT  
 CTGACTGAGAAGGACATCATTGACCTGCCTGCTCTTCAAGATGGATGAAGACCGTCAGGCCAGGGCTT  
 TCTTCCCTAACATGGTGAACATGATCGTCTAGACAAGGACCTGGGTATCCCCAAGCCTTTCCGGGCCCA  
 GGTGAGGAGGAGTGTGCTGCTGGAGACACATGTTGAGGCGCTGCTGGAGCCCTGGGCTTGCCTGCACC  
 TTCATTGATGACATCTCTGCATACCACAAGTTTCTGGGAGAGGTTCACTGTGGCACAACGTGCGCAGGA  
 AGCCCTTACCTTCAAGTGGTGGACATGGTGCCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2674\\_a03.zip](https://cdn.origene.com/chromatograms/ja2674_a03.zip)

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_017226

**Insert Size:** 1998 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_017226.1](#), [NP\\_058922.1](#)

**RefSeq Size:** 4507 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 29511

**UniProt ID:** [P20717](#)

**Cytogenetics:** 5q36

**Gene Summary:** catalyzes the calcium ion dependent conversion of protein arginine residues to citrulline residues; expressed in skeletal muscle [RGD, Feb 2006]