

Product datasheet for **RN207085**

Padi4 (NM_017227) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Padi4 (NM_017227) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Padi4
Synonyms:	Pdi4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207085 representing NM_017227
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCAGGGTGCAGTATCCATGTGGCCCTGAGGAGCCACCCATGCCGTGTGTGGTGGGCACGG
 CGACCCCGCTGGATATCCGTGGCTCTGCTCCAAGGGGCTCCACGCTCCTCAGCATCACAGCCTCCCCAGA
 AGTTGTTGTAGATGTCATCCATGGTCTCCATCCAAGAAGAGTACCACGGGGGCCTCCAATGGCCTCTG
 GACCCCAAGCTGGAGGTGACCCTACAGATGAAAGCAGCCAGCAGTAGGATAGATGACCAGAAGGTTGAA
 TTTCTATTACGGACCAAGACCTCATCAACCAAGCCCTGCTCTACCTACCGGGGTGAACTCTCCCT
 GAGTGCAGTGTACCCGCACTGGCAAAGCAAGCCAGCCAGCTGGGAAGGATCAGAGCACCTGGACC
 TGGGGCCCGACGGTACGGCGCCATCCTGTTGGTGAAGTGTGACAAGGAGGATCCCAAGTCTCCGGAA
 TGGACTTCGAGGACGACAAGGTCTTAGACAACAAAGACCTGCAGGACATGCACCAATGACCCTAAGCAC
 GAAGACTCCCAAAGACTTCTTTGACAAGTATCAGTTGGTGTGCAGGTGCCGAAGCCAAGTGAACAAA
 GTGAGAGTCTCCGGGCCACACGGGGCAAACCTGCCATCCAGATACAAGGTGGTCTTAGGACCACAGCAGT
 TCTCCACCGCTAGAGCTGCTGGGCGGCCAGCACAGCACGGACTTCTATGTGGAAGGCCTTGCTTTCCC
 TGACGCCGACTTCAAGGGGCTCATTCCCCTAACGATCTCCCTGTTGGACAAATCTAACCCGGAGCTCCCT
 GAAGCCCTGGTGTCCAAGACACCGTGTGTTCCGTGTGGCCCTGGATCATGACGCCAACACTCAGC
 CCCCCAGGAGGTATACGTGTGCAGTTTTCCGACAATGAAGACTTCTAAAGTCACTGGCTACTTTTAC
 CAAGAAAGCCAAGTGCAAAGTACTGTGTGCCAGAGGAGGAAAATCAAGATGACCAGTGGATGCAGGAT
 GAAATGGAGATTGGCTACATACAGGCCCCCAAGACGCTGCCTGTGGTCTTTGACTCCCCGAGGGACA
 GAGGCTGAAGGATTTCCCTGTCAAACGAGTCAAGGGTCCAATTTTGGCTATGTGACCCGAGGGCTCTA
 TAGAGCAGAGGTCACTGGGCTGGATGCCTTTGGGAACCTGGAGGTGAGTCCCCCAGTCACTGTGAGAGG
 AAGGAATACCCACTGGGCAGGATTCTCATCGGGAGCAGCGTTATTCCAGCAGTGAAGCCGGGACATGC
 ACCAGATCTGCAGGACTTCTGGGTGCCAGCAGGTGCAGGCCCTGTGAGACTTCTCCGATTGGCT
 CTTTGTGGGTACAGTGGATGAGTCTTGTAGCTTCCGCGCACGGGGCAAGCAGGGCTTTCCGGTGCTA
 CTGTCCAGCCCCAGAGCTTGCTACCAGATGTTCCAGGAGCTGCAGACCGAGGGCCACGGGGAGGCATCAC
 TGTTGAAAGGACTCAAGAGGAAAAGGCAGACAATCAGTGACATTCTGTCCAGCCAGAACTAAGAGACCA
 GAATGCCTACGTGGAGAGCTGTATTGACTGGAACCGTGAAGTGTGAAGCGAGAGTTGGCCTGACGGAG
 GCGGACATCATTGATATACCCAGCTCTTCAGGATTGTGGGAACTCCAGAGGGAACCCGAAGGCTGAGG
 CCTTCTCCCAAACATGGTGAACATGCTGGTACTGGGCAAGCACCTGGGCATCCCCAAGCCCTTTGGGCC
 CATCATCAACGGCCGCTGCTGCCTGGAGGAGAAGGTGTGCTCCCTGCTGGAGCCGCTGGGTCTGACTGC
 ACCTTCATCAACGACTTCTACAGCTATCACATGTACCACGGAGAGGTTCACTGTGGCACCAACGTGCGCA
 GGAAGCCCTTCGCTTCAAGTGGTGGCACATGGTTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2757_f02.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_017227

Insert Size: 2001 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 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_017227.1](#), [NP_058923.1](#)

RefSeq Size: 2258 bp

RefSeq ORF: 2001 bp

Locus ID: 29512

UniProt ID: [O88807](#)

Cytogenetics: 5q36

Gene Summary: converts arginine residues to citrulline residues; may regulate intermediate filament proteins and intermediate filament-associated proteins in cells undergoing degenerative processes [RGD, Feb 2006]