

Product datasheet for **MC220742**

Padi2 (BC040350) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Padi2 (BC040350) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Padi2
Synonyms:	mKIAA0994; Pdi; Pdi2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC040350
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCCGCTATACGGGAAAATATGCTGCGGGAACGGACCGTGCAGTATGGGAGCCGCTGG
 AGGCGGTGTACGTGCTGGGCACGCAGCTCTGGACCGATGTCTACAGTGCAGCACCTGCTGGGGCCAAAAC
 CTTCAGCCTGAAGCACTCGGAGGGTGTGAAGGTGGAGGTCGTACGTGATGGAGAGGCAGAGGAGGTGGTC
 ACCAATGGCAAGCAGCGCTGGGCCCTGTACCCAGCAGCACACTGCGGCTCAGCATGGCCAGGCCAGCA
 CAGAGGCCAGCAGCGACAAGGTCACTGTCAACTACTATGAAGAGGAGGGCAGCGCCCCATTGACCAGGC
 TGGGCTCTTCTCACGGCATTGAGATCTCGTGGATGTGGACGCAGATCGGGATGGAGAGGTGGAGAAG
 AACAACTCTAAGAAGGCATCCTGGACCTGGGGTCTGAGGGCCAAGGGGCCATCTGCTGGTGAATTGTG
 ACCGAGACACACCCTGGTTGCCAAGGAGGACTGTAGTGACGAAAAGGTCTACAGCAAGCAAGACCTCCA
 GGACATGTCTCAGATGATCCTGCGCACAAAGGCCCTGACCGCTGCCCGCGGGTATGAAATAGTCCTC
 TACATCTCCATGTCGGACTCGGACAAAGTGGGCGTCTTCTACGTGGAGAACCCTGCTTTGGCCAGCGCT
 ATATCCACATCCTGGGCCGGCAGAAGCTCTACCACGTGGTCAAGTACACCGCGGTTCTGCGGAGTTGCT
 GTTCTTCGTGGAGGGCTCTGTTTCCCCGATGAGAGTTTCTCAGGCCTGGTTTCTATCCACGTCACTCTG
 CTGGAGTATATGGCCGAGGGCATCCCGTTGACCCCATCTTCACAGACACTGTGATGTTCCGGATTGCAC
 CCTGGATTATGACCCCCAACATCCTGCCTCTGTGTCAGTGTTCGTGTGCTGCATGAAGGACAATTACCT
 GTTCTGAAAGAGGTGAAGAACTTGGTGGAGAAAACCAACTGCGAACTGAAAGTTTGGTTTCCAGTACATG
 AACCGCGGTGACCGCTGGATCCAGGATGAAATCGAGTTTGGCTATATTGAGGCACCCACAAAGGCTTCC
 CAGTATGCTGGACTCCCTCGAGATGGAACCTGAAGGACTTCCCATTAAGCAACTCTGGGCCCAGA
 TTTTCGGCTATGTGACCCGGGAGCCCTCTTTGAGACTGTCACCAGCCTCGACTCCTTCGGGAATCTGGAG
 GTCAGTCCCCAGTGACCGTGAATGGCAAGGAGTACCCGCTTGGCCGGATCCTCATCGGAAGCAGTTTCC
 CCCTGTCTGGAGGCAGGAGGATGACCAAGGTGGTACGCGACTTCTGCAGGCCAGCAGGTGCAGGCGCC
 CGTGGAATCTACTCCGACTGGCTGACTGTAGGCCACGTGATGAGTTTATGACTTTCATCCCCATCCCA
 GGCAAAAAGGAATTTTCGGCTGCTCATGGCCAGCACCTCCGCTGCTACCAGCTCTCCGAGAAAAGCAGA
 AGGCAGGCCACGGGGAGGCCGTTATGTTCAAGGGCCTGGGAGGCATGAGCAGCAAGCGCATCACCATCAA
 CAAGATCCTGTCCAATGAGAGCCTCACGCAGGAGAACCAGTACTCCAGCGCTGTCTGGACTGGAACCGC
 GACATCCTTAAGAGGGAGCTAGCGCTGACTGAGAAGGACATTATTGACCTGCCCGCGCTTCAAGATGG
 ATGAAAATCACCAAGGCCAGGGCTTTCTTCCCTAACATGGTGAACATGATCGTGCTAGACAAGGACCTGGG
 CATCCCCAAGCCTTTTCGGGCCAGGTGGAGGAGGAGTGTGCCTGGAGACGCACGTTCCAGGCCTGCTG
 GAGCCCCGCGCTCGCCTGCACGTTTATCGATGACATCTCCGCTACCAAGTTCTTGGGAGAGGTTCC
 ACTGTGGCACCAATGTCCGACGGAAGCCGTTCCGCTTCAAGTGGTGGCACATGGTGCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC040350
Insert Size: 2022 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: [BC040350](#), [AAH40350](#)

RefSeq Size: 4733 bp

RefSeq ORF: 2021 bp

Locus ID: 18600

Cytogenetics: 4 73.01 cM

Gene Summary: Catalyzes the deimination of arginine residues of proteins.[UniProtKB/Swiss-Prot Function]