

## Product datasheet for **SC314360**

### **PADI2 (NM\_007365) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PADI2 (NM_007365) Human Untagged Clone
Tag:	Tag Free
Symbol:	PADI2
Synonyms:	PAD-H19; PAD2; PDI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_007365 edited  
 ATGCTGCGCGAGCGGACCGTGCGGCTGCAGTACGGGAGCCCGTGGAGGCGGTGTACGTG  
 CTGGGCACCTACCTCTGGACCGATGTCTACAGCGCGGCCCCAGCCGGGGCCAAACCTTC  
 AGCCTGAAGCACTCGGAACACGTGTGGGTGGAGGTGGTGCCTGATGGGGAGGCTGAGGAG  
 GTGGCCACCAATGGCAAGCAGCGCTGGCTTCTCTCGCCAGCACCACCCTGCGGGTCACC  
 ATGAGCCAGGCGAGCACCAGGCCAGCAGTACAAGGTCACCGTCAACTACTATGACGAG  
 GAAGGGAGCATTCCCATCGACCAGGCGGGGCTTCTCTCACAGCCATTGAGATCTCCCTG  
 GATGTGGACGCAGACCGGATGGTGTGGTGGAGAAGAACAACCCAAAGAAGGCATCCTGG  
 ACCTGGGGCCCGAGGGCCAGGGGGCCATCCTGCTGGTGAAGTGTGACCGAGAGACACCC  
 TGGTTGCCAAGGAGGACTGCCGTGATGAGAAGGTCTACAGCAAGGAAGATCTCAAGGAC  
 ATGTCCCAGATGATCCTGCGGACCAAGGCCCGACCGCCTCCCCGCGGATACGAGATA  
 GTTCTGTACATTTCCATGTCAGACTCAGACAAAGTGGCGTGTCTACGTGGAGAACCCG  
 TTCTTCGCCAACGCTATATCCACATCCTGGCCGGCGGAAGCTCTACCATGTGGTCAAG  
 TACACGGGTGGCTCCGCGGAGCTGCTGTTCTTCGTGGAAGGCCTCTGTTTCCCCGACGAG  
 GGCTTCTCAGGCCTGGTCTCCATCCATGTCAGCCTGCTGGAGTACATGGCCAGGACATT  
 CCCTGACTCCCATCTTACGGACACCGTGATATTCCGGATTGCTCCGTGGATCATGACC  
 CCCAACATCCTGCCTCCCGTGTGCGGTGTTGTGTGCTGCATGAAGGATAATTACCTGTTC  
 CTGAAAGAGGTGAAGAACCTTGTGGAGAAAACCAACTGTGAGCTGAAGGTCTGCTTCCAG  
 TACCTAAACCGAGGCGATCGCTGGATCCAGGATGAAATTGAGTTTGGCTACATCGAGGCC  
 CCCCATAAAGGCTTCCCGTGGTGTGACTCTCCCCGAGATGGAACCTAAAGGACTTC  
 CCTGTGAAGGAGCTCCTGGGCCAGATTTTGGCTACGTGACCCGGGAGCCCTCTTTGAG  
 TCTGTACCAGCCTTGACTCATTTGAAACCTGGAGGTCAGTCCCCAGTGACCGTGAAT  
 GGCAAGACATACCCGCTTGGCCGCATCCTCATCGGGAGCAGCTTCTCTGTCTGGTGGT  
 CGGAGGATGACCAAGGTGGTGCCTGACTTCTGAAGGCCAGCAGGTGCAGGCACCCGTG  
 GAGCTCTACTCAGACTGGCTGACTGTGGGCCACGTGGATGAGTTCATGCTCTTTGCCCC  
 ATCCCCGGCACAAAGAAATTCCTGCTACTCATGGCCAGCACCTCGGCCTGCTACAAGCTC  
 TTCCGAGAGAAGCAGAAGGACGGCCATGGAGAGGCCATCATGTTCAAAGGCTTGGGTGGG  
 ATGAGCAGCAAGCGAATCACCATCAACAAGATTCTGTCCAACGAGAGCCTTGTGCAGGAG  
 AACCTGTACTTCCAGCGCTGCCTAGACTGGAACCGTGACATCCTCAAGAAGGAGCTGGGA  
 CTGACAGAGCAGGACATATTGACCTGCCGCTCTGTTCAAGATGGACGAGGACCACCGT  
 GCCAGAGCCTTCTCCCAAACATGGTGAACATGATCGTGTGGACAAGGACCTGGGCATC  
 CCCAAGCCATTTCGGGCCACAGGTTGAGGAGGAATGCTGCCTGGAGATGCACGTGCCTGGC  
 CTCTGGAGCCCCTGGGCTCGAATGCACCTTCATCGACGACATTTCTGCCTACCACAAA  
 TTTCTGGGGGAAGTCCACTGTGGCACCAACGTCCGAGGAAGCCCTTCACCTTCAAGTGG  
 TGGACATGGTGCCTGA

- Restriction Sites:** Please inquire
- ACCN:** NM\_007365
- Insert Size:** 2000 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_007365.1.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_007365.1</a> , <a href="#">NP_031391.1</a>
<b>RefSeq Size:</b>	2348 bp
<b>RefSeq ORF:</b>	1998 bp
<b>Locus ID:</b>	11240
<b>UniProt ID:</b>	<a href="#">Q9Y2J8</a>
<b>Cytogenetics:</b>	1p36.13
<b>Domains:</b>	PAD
<b>Gene Summary:</b>	<p>This gene encodes a member of the peptidyl arginine deiminase family of enzymes, which catalyze the post-translational deimination of proteins by converting arginine residues into citrullines in the presence of calcium ions. The family members have distinct substrate specificities and tissue-specific expression patterns. The type II enzyme is the most widely expressed family member. Known substrates for this enzyme include myelin basic protein in the central nervous system and vimentin in skeletal muscle and macrophages. This enzyme is thought to play a role in the onset and progression of neurodegenerative human disorders, including Alzheimer disease and multiple sclerosis, and it has also been implicated in glaucoma pathogenesis. This gene exists in a cluster with four other paralogous genes. [provided by RefSeq, Jul 2008]</p>