

## Product datasheet for **SC115406**

### **PADI4 (NM\_012387) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PADI4 (NM_012387) Human Untagged Clone
Tag:	Tag Free
Symbol:	PADI4
Synonyms:	PAD; PAD4; PADI5; PDI4; PDI5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115406 sequence for NM\_012387 edited (data generated by NextGen Sequencing)

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ATGGCCCAGGGGACATTGATCCGTGTGACCCAGAGCAGCCACCCATGCCGTGTGTGTG
CTGGGCACCTTGACTCAGCTTGACATCTGCAGCTCTGCCCTGAGGACTGCACGTCTTC
AGCATCAACGCCTCCCCAGGGTGGTCGTGGATATTGCCACAGCCCCCAGCCAAGAAG
AAATCCACAGGTTCTCCACATGGCCCCGGACCCTGGGGTAGAGGTGACCCTGACGATG
AAAGCGGCCAGTGGTAGCACAGGCGACCAGAAGGTTGAGATTTCACTACGGACCCAAG
ACTCCACCAGTCAAAGCTTACTCTACCTCACCCTGCGGTGAAATCTCCCTGTGCGCAGAC
ATCACCCGACCCGCAAAGTGAAGCCAACCAGAGCTGTGAAAGATCAGAGGACCTGGACC
TGGGGCCCTTGTGGACAGGGTGCCATCCTGCTGGTGAAGTGTGACAGAGACAATCTCGAA
TCTTCTGCCATGGACTGCGAGGATGATGAAGTGTGACAGCGAAGACCTGCAGGACATG
TCGCTGATGACCCTGAGCACGAAGACCCCAAGGACTTCTTCAAAACCATACACTGGTG
CTCCACGTGGCCAGGTCTGAGATGGACAAAGTGAAGGTGTTTCAGGCCACACGGGGCAA
CTGTCTCCAAGTGCAGCGTAGTCTTGGGTCCCAAGTGGCCCTCTCACTACCTGATGGTC
CCCGGTGAAAGCACAAATGACTTCTACGTGGAGGCCCTCGCTTCCCGGACACCGAC
TTCCTCCGGGCTCATTACCCTCACCATCTCCTGCTGGACACGTCCAACCTGGAGTCCCC
GAGGCTGTGGTGTCCAAGACAGCGTGGTCTTCCGCGTGGCGCCCTGGATCATGACCCCC
AACACCCAGCCCCCGCAGGAGGTGTACGCGTGCAGTATTTTTGAAAATGAGGACTTCTG
AAGTCAGTGACTACTCTGGCCATGAAAGCCAAGTGAAGTGCACATCTGCCCTGAGGAG
GAGAACATGGATGACCAGTGGATGCAGGATGAAATGGAGATCGGCTACATCCAAGCCCCA
CACAAAACGCTGCCCGTGGTCTTCGACTCTCAAGGAACAGAGCCCTGAAGGAGTTTCCC
ATCAAACGCGTGTGAGTCCAGATTTGGCTATGTAACGAGGGCCCCAAACAGGGGGT
ATCAGTGGACTGGACTCCTTTGGGAACCTGGAAGTGAAGTGGAGCCCCCAGTACAGTCA
AAGGAATACCCGCTGGGCAGGATTCTTTCGGGGACAGCTGTTATCCCAGCAATGACAGC
CGGCAGATGCACAGGCCCTGCAGGACTTCTCAGTGCCAGCAGGTGCAGGCCCTGTG
AAGCTCTATTCTGACTGGCTGTCCGTGGGCCACGTGGACGAGTTCCTGAGCTTTGTGCCA
GCACCCGACAGGAAGGGCTTCCGGCTGCTCCTGGCCAGCCCCAGGTCTGCTACAAACTG
TTCCAGGAGCAGCAGAATGAGGGCCACGGGGAGGCCCTGCTGTTTCAAGGGATCAAGAAA
AAAAAACAGCAGAAAATAAAGAATTCTGTCAAACAAGACATTGAGAGAACATAATTCA
TTTGTGGAGAGATGCATGACTGGAACCGGAGCTGCTGAAGCGGGAGCTGGGCCTGGCC
GAGAGTGACATCATTGACATCCCGCAGCTTCAAGCTCAAAGAGTTCTTAAGCGGAA
GCTTTTTTCCCAACATGGTGAACATGCTGGTGTAGGGAAGCACCTGGGCATCCCAAG
CCCTTCGGGCCCTCATCAACGGCCGCTGCTGCCTGGAGGAGAAGGTGTGTTCCCTGCTG
GAGCCACTGGGCCTCCAGTGCACCTTCAACGACTTCTTACCTACCACATCAGGCAT
GGGGAGGTGCACTGCGGCACCAACGTGCGCAGAAAAGCCCTTCTCCTTCAAGTGGTGGAA
ATGGTGCCCTGA
    
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Clone variation with respect to NM\_012387.2  
 163 g=>a;168 t=>c;245 t=>c;335 g=>c;349 t=>c

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_012387 unedited</p> <pre> NNGGGTCAGCATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGCCGAGA TGGCCCAGGGACATTGATCCGTGTGACCCAGAGCAGCCACCCATGCCGTGTGTGTGCT GGGCACCTTGACTCAGCTTGACATCTGCAGCTCTGCCCTGAGGACTGCACGTCTTCAG CATCAACGCCTCCCAGGGTGGTCGTGGATATTGCCACAGCCCCCAGCCAAGAAGAAA GCCGCCAGTGGTAGCACAGGCGACCAGAAGGTTTCAATTCATACTACGGACCCAAGACT CCACCAGTCAAAGCTCTACTCTACCTCACCGCGGTGAAAATCTCCCTGTGCGCAGACATC ACCCGCACCGGCAAAGTGAAGCCAACCAGAGCTGTGAAAGATCAGAGGACCTGGACCTGG GGCCCTTGTGGACAGGGTGCCATCTGTGCTGGAAGTGTGACAGAGACAATCTCGAATCT TCTGCCATGGACTGCGAGGATGATGAAGTGCTTGACAGCGAAGACCTGCAGGACATGTGC CTGATGACCTGAGCACGAAGACCCCCAAGGACTTCTTCAAAACCATACTGTTGCTC CACGTGGCCAGGCTGAGATGGACAAAGTGAGGGTGTTCAGGCCACACGGNGCAAAGT TCCTCAAAGTGCAGCGTAGTCTTGGGTCCAAGTGGCCCTCTACTACCTGATGGTCCCC GGTGGAAAGCACACATGGACTTCTACGTGGAGGCCCTCGCTNTCCCGACACCGACTTNC CGGNGCTCATTACCTCACATCTNCCTGTGGACACGTNCAACCTGGAGCTCCCCGAGCT GTGGGTGTCCAGAACAGCGTGGTC </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_012387 unedited</p> <pre> TTNCCAGGTATTAGCTAGNAACCGCGCCGCAANCTAGNGATCGATTTTTTTTTTTTTTTT TT TT TAAAAAACTTTTTTGGCGCTTCTTAAACAAAAGTGAATGGGCCGTGCTAGGACCTGT TGGGATCTTCAAAGGGGAAACTGGGACCTCCCGGAAAAAAAAGCCAGCCCTGCTGGG AGGGCTGGCCCCCCCCGGGAGCCCAATATTCAAAAAACCTTGGTTGCCCACTGGA AAAGACCCCGGACCTCTGGCCACGAGGAAAAGACCCCGGAAAAAAGGGCTCAAGGCA CCCTGTTCCACCCTTGAAGAAAAAGGCTTTCTGCCACCTTGGTGCCCAATGCACCC CCCCATGCCTGAAGTGGTAGGGGAAAAATCCTTATGAAAGGGCCCTGGAGGCCCATG GCTCCACAGGGAACACACCTTTTCTCCAAGCAACAACGGCCCTTATGACCGGCCCA AAGCTTGGGGATGCCCAAGTGTTCCTAACACCAGCATGTTACCATGTTGGGGAAAA AAACCTCCCCCTAAAAAAGTCTTTGAACCTGAAAAACCGGGGAAAGTCAATGATGCAC TCTCGGGCAGGCCAGCTCCCGCTTAAACAACCTCGGGGTCCCGTCCAAGCCTCTCTCC CAAAGAAATAAGTTCTCTCAAGGCTTGTGACCAAAAGTCTTAAATTTGCGCGGT TTTTTTCTGAACCCCTCGAAACACAAGGCCCCCCGGGGCCCCCAATTTGCTGCCCTG GAACAATTGTTACAAGACC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012387
<b>Insert Size:</b>	2750 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>	<u><a href="#">NM_012387.1</a></u> , <u><a href="#">NP_036519.1</a></u>
<b>RefSeq Size:</b>	2263 bp
<b>RefSeq ORF:</b>	1992 bp
<b>Locus ID:</b>	23569
<b>UniProt ID:</b>	<u><a href="#">Q9UM07</a></u>
<b>Cytogenetics:</b>	1p36.13
<b>Domains:</b>	PAD
<b>Gene Summary:</b>	This gene is a member of a gene family which encodes enzymes responsible for the conversion of arginine residues to citrulline residues. This gene may play a role in granulocyte and macrophage development leading to inflammation and immune response. [provided by RefSeq, Jul 2008]