

Product datasheet for **SC304001**

PADI1 (NM_013358) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PADI1 (NM_013358) Human Untagged Clone
Tag:	Tag Free
Symbol:	PADI1
Synonyms:	HPAD10; PAD1; PDI; PDI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF:	>OriGene sequence for NM_013358 edited ATGGCCCCAAAGAGAGTTGTGCAGCTGTCCCTGAAGATGCCTACCCATGCCGTGTGTGTG GTGGGAGTCGAGGCACATGTGGACATTCACAGTGATGTGCCAAAGGGTGCCAACAGCTTC AGGGTCTCTGGAAGCTCCGGGGTGGAGGTCTTCATGGTCTACAACCGCACACGTGTGAAA GAGCCCATAGGCAAGGCCGTTGGCCGCTAGACTGATGCAGACATGGTCGTATCTGTG GGCACAGCCAGTAAGGAATTAAGGACTTCAAGGTGAGGGTCTCCTACTTTGGGGAGCAG GAAGACCAAGCTCTGGGCCGACGCTGCTTTACCTCACTGGCGTCGATATTTCCCTTGAG GTTGACACAGGCCGCACAGGCAAGGTGAAGAGGAGCCAAGGGGACAAGAAAACCTGGCGC TGGGGCCCTGAGGGCTATGGGGCTATCTTGCTGGTGAAGTGTGACCGGGACAATCACAGG TCCGCAGAGCCTGACCTACCCACAGCTGGCTGATGTCGCTGGCTGACCTGCAGGACATG TCCCAATGCTGCTGAGCTGCAATGGCCCCGACAAGCTCTTCGACAGCCACAAGTTGTC TTGAACGTGCCCTTTTCTGATTCAAAAGAGTGAGGGTCTTCTGTGCCAGGGGTGGGAAT TCTCTCTCGACTACAAACAGGTGCTGGGGCCCCAGTGTCTGCTCATGAAGTTGAGCGA CAGCCAGGGGAGCAGGAGATCAAGTTCTATGTGGAGGGGTGACCTTCCCGATGCCGAT TTCTAGGGCTGGTTTCCCTCAGTGTGAGCCTGGTGGACCGGGGACCCTGCCGAGGTG ACCCTCTCACAGACACTGTGGGCTTCCGCATGGCCCCCTGGATCATGACGCCAACACT CAGCCTCCTGAGGAGCTGTATGTGTGCAGAGTGATGGACACTCATGGCTCCAATGAGAAA TTCTGGAGGACATGTCTTATCTGACATTGAAAGCCAAGTCAAGCTGACCATCTGCCCT CAAGTTGAAAAATCGAAATGACCGCTGGATCCAGGACGAGATGGAGTTTGGCTACATCGAG GCCCTCACAAATCCTTCCCGTGGTCTTTGACTCCCCAGGAACAGGGGCTGAAAGAT TTCCCCTATAAGAGGATCCTGGGTCCTGACTTTGGATATGTTACCCGGGAGATCCCGTCT CCTGGTCCCTCCAGCCTTGACTCCTTCGGCAACCTGGACGTGAGCCCGCCCGTACGGTG GCGGCGCAGGAATACCCCTGGGCCGGATCCTCATCGGGAGCAGCTTCCCAAGTCCGGT GGGCGGCAGATGGCCAGGCGAGTGCAGAACTTCTGAAGGCACAGCAGGTGCAGGACCC GTGGAGCTCTACTCGACTGGCTCTCTGTGGCCATGTGGACGAGTTTCTGACCTTTGTG CCTACCTCTGACAAAAGGGCTTCCGGCTGCTCCTGGCTAGCCCCAGCGTTGCCTCAA CTCTTCAAGAGAAGAAAGAAGAGGGTTATGGGGAGGCAGCCAGTTTGATGGGTAAAA CACCAGGCAAAAAGAAGCATTAAATGAGATGCTGGCAGACAGACCTCCAGAGAGACAAT CTTTATGCACAGAAATGCATTGACTGGAACCGTAATGTGCTGAAGCGGGAGCTGGCCTG GCAGAGAGTGACATCGTGGACATCCCCAGCTCTTCTTCTGAAAACTTCTACGCGGAA GCCTTCTTCCAGACATGGTTAACATGGTGGTCTTAGGCAAGTACCTGGGCATCCCCAAG CCCTACGGGCCCATCATCAATGGCCGCTGCTGCCTGGAGGAGAAGGTGCAGTCCCTGCTG GAGCCTCTGGGCCTGACTGCATCTTATTGATGACTACTTGTCTACACGAGGTGCAG GGGGAGATCCACTGTGGCACCACGTGCGCAGGAAGCCCTTCCCTTCAATGGTGGAAAC ATGGTGCCTGA
Restriction Sites:	Please inquire
ACCN:	NM_013358
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_013358.1](#), [NP_037490.1](#)

RefSeq Size: 2711 bp

RefSeq ORF: 1992 bp

Locus ID: 29943

UniProt ID: [Q9ULC6](#)

Cytogenetics: 1p36.13

Gene Summary: 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 I enzyme is involved in the late stages of epidermal differentiation, where it deiminates filaggrin and keratin K1, which maintains hydration of the stratum corneum, and hence the cutaneous barrier function. This enzyme may also play a role in hair follicle formation. This gene exists in a cluster with four other paralogous genes. [provided by RefSeq, Jul 2008]