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Product datasheet for SC304395

PADI3 (NM_016233) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PADI3 (NM_016233) Human Untagged Clone
Tag:	Tag Free
Symbol:	PADI3
Synonyms:	PAD3; PDI3; UHS1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Neo
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_016233 edited
GCGGCCACAGCTAAGTCCAACACCAGCATGTCGCTGCAGAGAATCGTGCGTGTGTCCCTG
GAGCATCCCACCAGCGCGGTGTGTGTGGCTGGCGTGGAGACCCTCGTGGACATTTATGGG
TCAGTGCCTGAGGGCACAGAAATGTTTGAGGTCTATGGGACGCCTGGCGTGGACATCTAC
ATCTCTCCCAACATGGAGAGGGGCCGGGAGCGTGCAGACACCAGGCGGTGGCGCTTTGAC
GCGACTTTGGAGATCATCGTGGTCATGAACTCCCCCAGCAATGACCTCAACGACAGCCAT
GTTCAGATTTCCTACCACTCCAGCCATGAGCCTCTGCCCCTGGCCTATGCGGTGCTCTAC
CTCACCTGTGTTGACATCTCTCTGGATTGCGACCTGAACTGTGAGGGAAGGCAGGACAGG
AACTTTGTAGACAAGCGGCAGTGGGTCTGGGGGCCCAGTGGGTATGGCGGCATCTTGCTG
GTGAACTGTGACCGTGATGATCCGAGCTGTGATGTCCAGGACAATTGTGACCAGCACGTG
CACTGCCTGCAAGACCTGGAAGACATGTCTGTCATGGTCCTGCGGACGCAGGGCCCTGCA
GCCCTCTTTGATGACCACAAACTTGTCCTCCATACCTCCAGCTATGATGCCAAACGGGCA
CAGGTCTTCCACATCTGCGGTCCTGAGGATGTGTGTGAGGCCTATAGGCATGTGCTGGGC
CAAGATAAGGTGTCCTATGAGGTACCCCGCTTGCATGGGGATGAGGAGCGCTTCTTCGTG
GAAGGCCTGTCCTTCCCTGATGCCGGCTTCACAGGACTCATCTCCTTCCATGTCACTCTG
CTGGACGACTCCAACGAGGATTTCTCGGCATCCCCTATCTTCACTGACACTGTGGTGTTC
CGAGTGGCACCCTGGATCATGACGCCCAGCACTCTGCCACCCCTAGAGGTGTATGTGTGC
CGTGTGAGGAACAACACGTGTTTTGTGGATGCGGTGGCAGAGCTGGCCAGGAAGGCCGGC
TGCAAGCTGACCATCTGCCCACAGGCCGAGAACCGCAACGACCGCTGGATCCAGGATGAG
ATGGAGCTGGGCTACGTTCAGGCGCCGCACAAGACCCTCCCGGTGGTCTTTGACTCCCCA
AGGAATGGGGAACTGCAGGATTTCCCTTACAAAAGAATCCTGGGTCCAGATTTTGGTTAC
GTGACTCGGGAACCACGTGACAGGTCTGTGAGTGGCCTGGACTCCTTTGGGAACCTGGAG
GTCAGCCCTCCAGTGGTGGCCAATGGGAAAGAGTACCCCCTGGGGAGGATCCTCATTGGG
GGCAACCTGCCTGGGTCAAGTGGCCGCAGGGTCACCCAGGTGGTGCGGGACTTCCTCCAT
GCCCAGAAGGTGCAGCCCCCCGTGGAGCTCTTTGTGGACTGGTTGGCCGTGGGCCATGTG
GATGAGTTTCTGAGCTTTGTCCCTGCCCCCGATGGGAAGGGCTTCCGGATGCTCCTGGCC
AGCCCTGGGGCCTGCTTCAAGCTCTTCCAGGAAAAGCAGAAGTGTGGCCACGGGAGGGCC
CTCCTGTTCCAGGGGGTTGTTGATGATGAGCAGGTCAAGACCATCTCCATCAACCAGGTG
CTCTCCAATAAAGACCTCATCAACTACAATAAGTTTGTGCAGAGCTGCATCGACTGGAAC
CGTGAGGTGCTGAAGCGGGAGCTGGGCCTGGCAGAGTGTGACATCATTGACATCCCACAG
CTCTTCAAGACCGAGAGGAAAAAAGCAACGGCCTTCTTCCCTGACTTGGTGAACATGCTG
GTGCTGGGGAAGCACCTGGGCATCCCCAAGCCCTTTGGGCCCATCATCAATGGCTGCTGC
TGCCTGGAGGAGAAGGTGCGGTCCCTGCTGGAGCCGCTGGGCCTCCACTGCACCTTCATT
GATGACTTCACTCCATACCACATGCTGCATGGGGAGGTGCACTGTGGCACCAATGTGTGC
AGAAAGCCCTTCTCTTTCAAGTGGTGGAACATGGTGCCCTGAGACAGCTCCCACCCACCA
TCCTGTCCCCCTGGGGCGGGCATTGGCCCAGGTGGTGGAGACAGAGACAGGCCCCTGAAC
GATAAGCACCAAGAGACCCCAAGGCTCCAGATGGAACACTGAGGGTGACCGTCCCTCTCA
GAAGCCTTTTCCCTGGAAGTGTCCATGCCTCACCTGCAACCCATGTGGTTCTCAGACTTG
AATCTTCTCGGCCCCCCAGAAAGAAGGACCTCATTTCTTATAGCCTCTCCTGTGATTCAA
CACAACCCATGGAGATGTCCCCTTCTCACTCTGAAATCATCCATTTGGGGACAAATCCAC
ATTGGGGTCTAGAAACATCCACGTATCTCATCAGCCATCTTGTCCTGTGCATCCTAACAG
AGGAAGGATCCATGATTCTGCTTTGGTCCAATTGCTTCCTCTCTGCAGAGGAACAACCCT
AAAACCAGACCACTCCATGCAGGACAGGCAGGAGAGATTCTTCCTAAAGCCTCCCCCATA
AAAAGGGAGCTGTGGATCCACTTAGATCAGGGCGGAACCATCTTTCACCCGGCCAAGCTC
CTGCCCAGATGTTGACCCTCA

Restriction Sites: Please inquire

ACCN: NM_016233

Insert Size: 2600 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_016233.1, NP_057317.1
RefSeq Size:	3183 bp
RefSeq ORF:	1995 bp
Locus ID:	51702
UniProt ID:	Q9ULW8
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 III enzyme modulates hair structural proteins, such as filaggrin in the hair follicle and trichohyalin in the inner root sheath, during hair follicle formation. Together with the type I enzyme, this enzyme may also play a role in terminal differentiation of the epidermis. This gene exists in a cluster with four other paralogous genes. [provided by RefSeq, Jul 2008]