

Product datasheet for **SC113586**

ADI1 (NM_018269) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADI1 (NM_018269) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADI1
Synonyms:	APL1; ARD; Fe-ARD; HMFT1638; MTCBP1; mtnD; Ni-ARD; SIPL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113586 sequence for NM_018269 edited (data generated by NextGen Sequencing)

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ATGGTGCAGGCCTGGTATATGGACGACGCCCGGGCGACCCGCGCAACCCACCGCCCC  
GACCCCGCCGCCAGTGGCCTGGAGCAGCTGCGGCGGCTCGGGTGCTCTACTGGAAG  
CTGGATGCTGACAAATATGAGAATGATCCAGAATTAGAAAAGATCCGAAGAGAGAGGAAC  
TACTCCTGGATGGACATCATAACCATATGCAAAGATAAACTACCAAATTATGAAGAAAAG  
ATTAAGATGTTCTACGAGGAGCATTGCACTTGGACGATGAGATCCGCTACATCCTGGAT  
GGCAGTGGTACTTCGACGTGAGGGACAAGGAGGACCAGTGGATCCGGATCTTCATGGAG  
AAGGGAGACATGGTGACGCTCCCCGCGGGGATCTATCACCGCTTACGGTGGACGAGAAG  
AACTACACGAAGCCATGCGGCTGTTTGTGGGAGAACCGGTGTGGACAGCGTACAACCGG  
CCCGCTGACCATTTGAAGCCCGCGGGCAGTACGTGAAATTTCTGGCACAGACCGCCTAG
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Clone variation with respect to NM_018269.3
318 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018269 unedited
 TCAAATTTTGTAAATACCGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCCTGGGTT
 CGAACACGGCACCCCGCACTGCGCGTCAATGGTGCAGGCCTGGTATATGGACGACGCCCCGG
 GCGACCCGCGGCAACCCACCGCCCCGACCCCGGCCCGCCAGTGGGCCTGGAGCAGCTGC
 GGGCGCTCGGGGTGCTCTACTGGAAGCTGGATGCTGACAAATATGAGAATGATCCAGAAT
 TAGAAAAGATCCGAAGAGAGAGGAAGAACTACTCTGGATGGACATCATAACCATATGCCAAAG
 ATAAACTACCAAATTATGAAGAAAAGATTAAAGATGTTCTACGAGGAGCATTTCACCTTGG
 ACGATGAGATCCGCTACATCCTGGATGGCAGTGGTACTTCGACGTGAGGGACAAGGAGG
 ACCAGTGGATCCGGATCTTCATGGAGAAGGGAGACATGGTGACGCTCCCCGCGGGATCT
 ATCACCGTTCACGGTGGACGAGAAGAACTACACGAAGGCCATGCGGCTGTTTGTGGGAG
 AACCGGTGTGGACAGCGTACAACCGGCCGCTGACCATTTTGAAGCCCGCGGCAGTACG
 TGAAATTTCTGGCACAGACCGCCTAGCAGTGTGCCTGGGAACTAACACGCGCCTCGTAN
 AGGTCCCCATGGTATGACTGAGCAGAAATCAATCACTTTCTTTGCTTTTAGAGGAT
 AGCCTTGNAGCTAGNNATCTTCTTTGNAGATTATTTGATCAGAAATATNTGTAATGA
 AAGGATCTAGCNAAGCACTTGGNAGTGTTAAGAAGTACCTTCATTTTCTGGTACTCAAT
 CAGACTGGTGGGTCCATGGCCCTGTGTTAGNTCATGCATTGAGTCCCAATGAAAG
 NTCATCTNCCGAAATGCAGTTCCTTAGAATGCCATCTGGGACGTGTGCCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018269 unedited
 TCTATGAACCGCGGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAA
 GCATTTATTTAATTACTGAGATAGAGTCACACTTGACAGAAGCAAGCCCTGCGGTATAT
 GGCATCATCACACCACCGGTGGGTATTTAATCCTAAAAGTACAGAGAGTTTACTTAAA
 CATTAAAGCTTGAGTTTCTCTGTACAGTGTGGAGGTGATTAAGAAAATTAATCCTAAC
 ATGAAGATTTTTATCCAGTTAAAAAAGAAATCTTTAAAAACGACCTGCCCTTCCAAA
 ACATGAAGTTAACTTGGAGTTTTCTGTGATATGACAACTAGGCATAATCCTATCTCGG
 AATTGTTGAGTAGAAAATTTATGTAATAACTCTTGTAAAAATCAACAGCTTGATTGT
 GAAAGAATCCAGAGATCTCACACTGAAAAATACTAACACAGCTCATATATAAATTACTT
 ATCTATAAGAACAATTATAGAAGGAATCTAAATGGGGCAATTTTAAACAAACCAGGCAAAA
 TATCAGATACCTGAAAATAAGGTAACCTCAAGCCATGAGTATAAGATTAAGGCAGTTA
 CTTTATTTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGTGCCCTTAGGGTGGGAGC
 TCTTCCCCTACCACTCCCCACCCCAAGGCATCATTTTGGAGAAAAAGTGTCTTCTATC
 TGGCTAGCTGTGTTATCTANGATTGCACCTTACTACATGGCAGGCGCGGCATCAGTCCA
 GATGGGCATCTAAGGAACTGCATTTTCGGNAGATGAACTTTTATTNNNGGACTCANCTGA
 TGCATGAACTAACACAGGCCATGGNACCCACCAGTCTTGATTGAGTTACAGAAAATGAAG
 GTGACTCTTTTACACTTNAAGTCTTCTAGACCCTTCATAACAATATTCTGATCAATA
 ATCTTACAAGAAAGATAACTTNCCTCAGCT

Restriction Sites:

NotI-NotI

ACCN:

NM_018269

Insert Size:

1710 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).

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:	<ol style="list-style-type: none">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_018269.1 , NP_060739.1
RefSeq Size:	1628 bp
RefSeq ORF:	540 bp
Locus ID:	55256
UniProt ID:	Q9BV57
Cytogenetics:	2p25.3
Domains:	ARD
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways
Gene Summary:	<p>This gene encodes an enzyme that belongs to the aci-reductone dioxygenase family of metal-binding enzymes, which are involved in methionine salvage. This enzyme may regulate mRNA processing in the nucleus, and may carry out different functions depending on its localization. Related pseudogenes have been defined on chromosomes 8 and 20. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>