

Product datasheet for **SC313783**

CD39 (ENTPD1) (NM_001776) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD39 (ENTPD1) (NM_001776) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD39
Synonyms:	ATPDase; CD39; NTPDase-1; SPG64
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001776 edited
 ATGGAAGATACAAAGGAGTCTAACGTGAAGACATTTTGCTCCAAGAATATCCTAGCCATC
 CTTGGCTTCTCCTCTATCATAGCTGTGATAGCTTTGCTTGCTGGGGTTGACCCAGAAC
 AAAGCATTGCCAGAAAAGTTAAGTATGGGATTGTGCTGGATGCGGGTTCTTCTCACACA
 AGTTTATACATCTATAAGTGGCCAGCAGAAAAGGAGAATGACACAGGCGTGGTGCATCAA
 GTAGAAGAATGCAGGGTTAAAGGTCCTGGAATCTCAAAATTTGTTGAGAAAGTAAATGAA
 ATAGGCATTTACCTGACTGATTGCATGGAAGAGCTAGGGAAGTATTCCAAGTCCCAG
 CACCAAGAGACACCCGTTTACCTGGGAGCCACGGCAGGCATGCGGTTGCTCAGGATGGAA
 AGTGAAGAGTTGGCAGACAGGGTCTGGATGTGGTGGAGAGGAGCCTCAGCAACTACCC
 TTTGACTTCCAGGGTCCAGGATCATTACTGGCCAAGAGGAAGGTGCCTATGGCTGGATT
 ACTATCAACTATCTGCTGGGCAAATTCAGTCAGAAAACAAGGTGGTTTCAGCATAGTCCCA
 TATGAAACCAATAATCAGGAAACCTTTGGAGCTTTGGACCTTGGGGGAGCCTCTACACAA
 GTCACCTTTTGTACCCCAAACCAGACTATCGAGTCCCCAGATAATGCTCTGCAATTTTCGC
 CTCTATGGCAAGGACTACAATGTCTACACACATAGCTTCTGTGCTATGGGAAGGATCAG
 GCACTCTGGCAGAAACTGGCCAAGGACATTGAGTTGCAAGTAATGAAATTTCTCAGGGAC
 CCATGCTTTCATCCTGGATATAAGAAAGGTAGTGAACGTAAGTGACCTTTACAAGACCCCC
 TGCACCAAGAGATTTGAGATGACTCTTCCATTCCAGCAGTTTCAAATCCAGGGTATTGGA
 AACTATCAACAATGCCATCAAAGCATCCTGGAGCTTTCAACACCAGTTACTGCCCTTAC
 TCCCAGTGTGCCTTCAATGGGATTTTCTTGCCACCACTCCAGGGGATTTTGGGGCATT
 TCAGCTTTTACTTTGTGATGAAGTTTTTAAACTTGACATCAGAGAAAGTCTCTCAGGAA
 AAGGTGACTGAGATGATGAAAAAGTTCTGTGCTCAGCCTTGGGAGGAGATAAAAAATCT
 TACGCTGGAGTAAAGGAGAAGTACCTGAGTGAATACTGCTTTTCTGGTACCTACATTCTC
 TCCCTCTTCTGCAAGGCTATCATTTCACAGCTGATTCTGGGAGCACATCCATTTTCATT
 GGCAAGATCCAGGGCAGCGACGCCGGCTGGACTTTGGGCTACATGCTGAACCTGACCAAC
 ATGATCCCAGCTGAGCAACCATTTGCCACACCTCTCTCCCACTCCACCTATGTCTTCTC
 ATGTTTCTATTCTCCCTGGTCTTTTTCACAGTGGCCATCATAGGCTTGCTTATCTTTCAC
 AAGCCTTCATATTTCTGGAAAGATATGGTATAG



[View online »](#)

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_001776 unedited
ATTTTGGTATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCGGACCACAGCA
AGCAGAGGCTGGGGGGGGAAAGACGAGGAAAGAGGAGGAAAACAAAAGCTGCTACTTAT
GGAAGATACAAAGGAGTCTAACGTGAAGACATTTTGTCCAAGAATATCCTAGCCATCCT
TGGCTTCTCCTATCATAGCTGTGATAGCTTTGCTTGTGTGGGGTTGACCCAGAACAA
AGCATTTGCCAGAAAACGTTAAGTATGGGATTGTCTGGATGCGGGTTCTTCTCACACAAG
TTTATACATCTATAAGTGGCCAGCAGAAAAGGAGAATGACACAGGCGTGGTGCATCAAGT
AGAAGAATGCAGGGTTAAAGTCTGGAATCTCAAAATTTGTTTCAGAAAGTAAATGAAAT
AGGCATTTACCTGACTGATTGCATGGAAAAGAGCTAGGGAAGTGATTCCAAGTCCACGCA
CCAAGAGACACCCGTTTACCTGGGAGCCACGGCAGGCATGCGGTTGCTCAGGATGAAAAG
TGAAGAGTTGGCAGACAGGGTTCTGGATGTGGTGGAGAGGACTCTTAGCANCTACCCCTT
TGACTTCCAGGGTGCCAGGATCATTACTGGTCAAGAGGAAGTGCCTATGGCCTGGATAC
TACGGGCTGTGCGCCGGGGCACTTCCCCCCCCCCCCCGCGCCCTCGTGCCTTCCCTC
GCCCGGTCCCCCGCATCCCCCTCCTCGTCCCGCTCCGCGGCTTCTGCCGCCCCCT
CCTCGCGCGCTCGCGCCCGCCGCGCCGCCCCCGCCCTATCCCCCTCCCCCCCC
CCCCCTTCCCCGTTTTAACCTCTCTGTTACTCCCGCCCCCGCCGTACCCACCTCT
CCTCCTCGCCCCGTTCTCCCCCGTCTCCCCTA
```

3' Read Nucleotide Sequence:

```
>OriGene 3' genomic read for NM_001776 unedited
TGGCCACTGCACTTCAGGGCCGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGG
GATCTGTTAGGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCACAGCTTTATTAAGTTTTATATTCACC
TGGATGTTGTCAAAGTGACTTGATCATTCAAGAGATAGGGGACATTTGGCTTCCGGTTT
GTGTGAAAGCTTTTCTTTCCCATCAGCTCAACAGTCAGTCCCCAAATCTAGAGATGGAG
AGCTTGGGACAAGGTCAAATGAAACATCACCAGTCAATCCTGCTCAACAGGTAACCTTT
GCAGCAATCCTTAAGGAAAGGGTGCAGGGTCTTTCATGTTCCATGGTAAGGTCTATA
GCTGCTGCTTCATGGAATAAGCAAACAAAGCCATGTTGTGTGACGGGTGGCAACACTTT
CAAACCTGGATCCTGCACATTCTGATGTGTAATTCACGATAGGGCAAAAGCATGCCAC
TCCACACTAATGCTGCCCTCTACTAAATTAACCTTGGAAAAATAAGATGTGGCTTGGC
TTTAAAACTCAGTGAACATCTTTATGGTACAGTTGGTTTCCATAGCTGTAACACAAAA
GATCTATGGTTTTCTGCCTACCCAGGATAGTCTTGTCTCTAGACAATGTATTGATGATGCA
AATGTTCTGGAATAAATAGTGGTATGGTGGCACAACACTGTGAATGTACTAAATGTCA
CTGATTTGTACGTATTTAATATGATTAATGTAATGGTGAATTATTTATGTATATTT
TACCATAATAAAAAATATTGCATTGGAGATGCATTTTTTGGTGACCCTGGAGTTGT
```

Restriction Sites:

NotI-NotI

ACCN:

NM_001776

Insert Size:

3500 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_001776.3](#), [NP_001767.3](#)

RefSeq Size: 1959 bp

RefSeq ORF: 1533 bp

Locus ID: 953

UniProt ID: [P49961](#)

Cytogenetics: 10q24.1

Domains: GDA1_CD39

Protein Families: Transmembrane

Protein Pathways: Purine metabolism, Pyrimidine metabolism

Gene Summary:

The protein encoded by this gene is a plasma membrane protein that hydrolyzes extracellular ATP and ADP to AMP. Inhibition of this protein's activity may confer anticancer benefits. Several transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Aug 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.