

## Product datasheet for **RG219359**

### CD39 (ENTPD1) (NM\_001776) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD39 (ENTPD1) (NM_001776) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD39
Synonyms:	ATPDase; CD39; NTPDase-1; SPG64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219359 representing NM\_001776  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGATACAAAGGAGTCTAACGTGAAGACATTTTGCTCCAAGAATATCCTAGCCATCCTTGCTTCT  
 CCTCTATCATAGCTGTGATAGCTTTGCTTGCTGTGGGTTGACCCAGAACAAGCATTGCCAGAAAACGT  
 TAAGTATGGGATTGTGCTGGATGCGGGTCTTCTCACACAAGTTTATACATCTATAAGTGCCAGCAGAA  
 AAGGAGAATGACACAGGCGTGGTGCATCAAGTAGAAGAATGCAGGGTTAAAGGCTCTGGAATCTCAAAAT  
 TTGTTCCAGAAAAGTAAATGAAATAGGCATTTACCTGACTGATTGCATGAAAAGAGCTAGGGAAGTATTCC  
 AAGGTCCCAGCACCAAGAGACACCCGTTTACCTGGGAGCCACGGCAGGCATGCGGTTGCTCAGGATGGAA  
 AGTGAAGAGTTGGCAGACAGGGTCTGGATGTGGTGGAGAGGAGCCTCAGCAACTACCCCTTTGACTTCC  
 AGGGTCCAGGATCATTACTGGCCAAGAGGAAGGTGCCTATGGCTGGATTACTATCAACTATCTGCTGGG  
 CAAATTCAGTCAGAAAACAAGGTGGTTCAGCATAGTCCCATATGAAACCAATAATCAGGAAACCTTTGGA  
 GCTTTGGACCTTGGGGGAGCCTCTACACAAGTCACTTTTGTACCCAAAACCAGACTATCGAGTCCCCAG  
 ATAATGCTCTGCAATTTGCGCTCTATGGCAAGGACTACAATGTCTACACACATAGCTTCTTGCTATGG  
 GAAGGATCAGGCACTCTGGCAGAAAAGTGGCAAGGACATTCAGGTTGCAAGTAATGAAATTTCTCAGGGAC  
 CCATGCTTTTATCCTGGATATAAGAAGGTAGTGAACGTAAGTGACCTTTACAAGACCCCTGCACCAAGA  
 GATTTGAGATGACTCTTCCATCCAGCAGTTTGAATCCAGGGTATTGAAAATCAACAATGCCATCA  
 AAGCATCTGGAGCTCTCAACACCAGTTACTGCCCTTACTCCCAGTGTGCCTCAATGGGATTTTCTTG  
 CCACCACTCCAGGGGATTTTGGGCATTTTCACTTTTACTTTGTGATGAAGTTTTAACTTGACAT  
 CAGAAAAGTCTCTCAGAAAAGGTGACTGAGATGATGAAAAAGTTCTGTGCTCAGCCTTGGGAGGAGAT  
 AAAAACATCTTACGCTGGAGTAAAGGAGAAGTACCTGAGTGAATACTGCTTTTCTGGTACCTACATTCTC  
 TCCTCTTCTGCAAGGCTATCATTTCACAGCTGATTCTGGGAGCACATCCATTTTATTGGCAAGATCC  
 AGGGCAGCGACGCCGGCTGGACTTTGGGCTACATGCTGAACCTGACCAACATGATCCAGCTGAGCAACC  
 ATTGTCCACACTCTCTCCACTCCACCTATGTCTTCTCATGTTTCTATTCTCCTGGTCTTTTCCACA  
 GTGGCCATCATAGGCTTGCTTATCTTTCACAAGCCTTCATATTTCTGAAAAGATATGGTA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG219359 representing NM\_001776  
 Red=Cloning site Green=Tags(s)

MEDTKESNVKTFCSKNILAILGFSSIIAVIALLAVGLTQNKALPENVKYGIVLDAGSSHTSLYIYKWPAE  
 KENDTGVVHQVEECRVKGPGISKFVQKVNEIGIYLTDCMERAREVIPRSQHQETPVYLGATAGMRLLRME  
 SEELADRVLDVVERSLSNYPDFQGARIIITGQEEGAYGWIITINYLLGKFSQKTRWFSIVPYETNNQETFG  
 ALDLGGASTQVTFVPQNQTIESPDNALQFRLYKGDYNYVTHSFLCYGKDQALWQKLAKDIQVASNEILRD  
 PCFHPGYKVVNVSDLYKTPCTKRFEMTLPFQQFEIQGIGNYQQCHQSILELFNNTSYCPYSQCAFNGIFL  
 PPLQGDFGAFSAFYFVMKFLNLTSEKVSQEKVTEMMKFKCAQPWEEIKTSYAGVKEKYLSEYCFSGTYIL  
 SLLLQGYHFTADSWEHIHFIGKIQGSDAGWTLGYMLNLTNMIPAEQPLSTPLSHSTYVFLMVLFSLVLFT  
 VAIIGLLIFHKPSYFWKDMV

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001776

**ORF Size:** 1530 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](mailto: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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

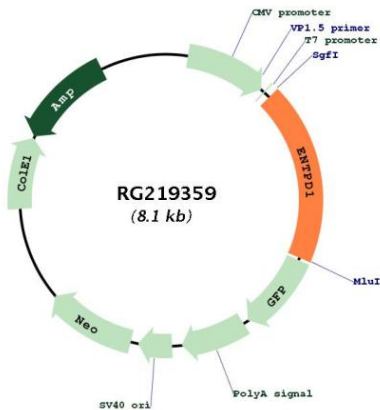
**Reconstitution Method:**

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\\_001776.6](#)

**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]

**Product images:**



Circular map for RG219359