

## Product datasheet for **RC214505**

### CD39 (ENTPD1) (NM\_001098175) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | CD39 (ENTPD1) (NM_001098175) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK   |
| Symbol:                   | CD39  |
| Synonyms:                 | ATPDase; CD39; NTPDase-1; SPG64                     |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                              |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                |



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ORF Nucleotide  
Sequence:

>RC214505 representing NM\_001098175  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGGGAACCAAGGACCTGACAAGCCAGCAGAAGGAGTCTAACGTGAAGACATTTTGCTCCAAGAATA  
TCCTAGCCATCCTTGCCCTCTCCTCATAGCTGTGATAGCTTTGCTTGTGGGGTTGACCCAGAA  
CAAAGCATTGCCAGAAAACGTTAAGTATGGGATTGTGCTGGATGCGGGTCTTCTCACACAAGTTTATAC  
ATCTATAAGTGGCCAGCAGAAAAGGAGAATGACACAGGCGTGGTGCATCAAGTAGAAGAATGCAGGGTTA  
AAGGCTCTGGAATCTCAAAATTTGTTTCAGAAAAGTAAATGAAATAGGCATTTACCTGACTGATTGCATGGA  
AAGAGCTAGGGAAGTATTCCAAGGTCCAGCACCAAGAGACACCCGTTTACCTGGGAGCCACGGCAGGC  
ATGCGGTTGCTCAGGATGAAAGTGAAGAGTTGGCAGACAGGGTCTGGATGTGGTGGAGAGGAGCCTCA  
GCAACTACCCCTTGACTTCCAGGGTCCAGGATCATTACTGGCCAAGAGGAAGTGCCTATGGCTGGAT  
TACTATCAACTATCTGCTGGGCAAAATTCAGTCAGAAAACAAGGTGTTTCCAGCATAGTCCCATATGAAACC  
AATAATCAGGAAACCTTTGGAGCTTTGGACCTTGGGGGAGCCTCTACACAAGTCACTTTTGTACCCAAA  
ACCAGACTATCGAGTCCCAGATAATGCTCTGCAATTTCCGCTCTATGGCAAGGACTACAATGTCTACAC  
ACATAGCTTCTTGCTATGGGAAGGATCAGGCACTCTGGCAGAACTGGCCAAGGACATTCAGGTTGCA  
AGTAATGAAATCTCAGGAGCCCATGCTTTCATCCTGGATATAAGAAGGTAGTGAACGTAAGTGACCTTT  
ACAAGACCCCTGCACCAAGAGATTTGAGATGACTCTCCATTCCAGCAGTTTGAATCCAGGGTATTGG  
AAACTATCAACAATGCCATCAAAGCATCCTGGAGCTCTTCAACACCAGTTACTGCCCTTACTCCCAGTGT  
GCCTTCAATGGGATTTTCTTCCACCCTCCAGGGGATTTTGGGCATTTTTCAGCTTTTACTTTGTGA  
TGAAGTTTTTAACTTGACATCAGAGAAAGTCTCTCAGGAAAAGGTGACTGAGATGATGAAAAAGTTCTG  
TGCTCAGCCTTGGGAGGAGATAAAAACATCTTACGCTGGAGTAAAGGAGAAGTACCTGAGTGAATACTGC  
TTTTCTGGTACCTACATTCTCTCCCTCTTCTGCAAGGCTATCATTTTACAGCTGATTCTGGGAGCACA  
TCCATTTTATTGGCAAGATCCAGGGCAGCGACCGGCTGGACTTTGGGCTACATGCTGAACCTGACCAA  
CATGATCCAGCTGAGCAACCATGTCCACACCTCTCTCCACTCCACCTATGTCTTCTCATGTTTCTA  
TTCTCCCTGGTCTTTTACAGTGGCCATCATAGGCTTGCTTATCTTTCACAAGCCTTCATATTTCTGGA  
AAGATATGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RC214505 representing NM\_001098175  
Red=Cloning site Green=Tags(s)

MKGTKDLTSQKESNVKTFCSKNILAILGFSSIIAVIALLVGLTQNKALPENVKYGIIVLDAGSSHTSLY  
IYKWAPEKENDTGVVHQVEECRVKPGISKFVQKVNEIGIYLTDCMERAREVIPSQHQETPVYLGATAG  
MRLLRMESEELADRVLDVVERSLSNYPDFQGARIITGQEEGAYGWITINYLLGKFSQKTRWFSIVPYET  
NNQETFGALDLGGASTQVTFVPQNQTIESPDNALQFRLYGKDYNYVTHSFLCYGKDQALWQKLAQDIQVA  
SNEILRDPFHPGYKVVNVSDLYKTPCKRFEMTLFPQQFEIQGIGNYQQCHQSILELFNTSYCPYSQC  
AFNGIFLPLQDFGAFSAFYFVMKFLNLTSEKVSQEKVTEMMKKFCAQPWEEIKTSYAGVKEKYLSEYC  
FSGTYILSLLLQGYHFTADSWEIHFIKIQGSDAGWTLGYMLNLTNMIPAEQPLSTPLSHSTYVFLMVL  
FSLVLFVVAIIIGLLIFHKPSYFWKDMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Chromatograms:

[https://cdn.origene.com/chromatograms/mk8064\\_f11.zip](https://cdn.origene.com/chromatograms/mk8064_f11.zip)

## Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001098175

**ORF Size:** 1551 bp

**OTI Disclaimer:** 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\\_001098175.2](#)

**RefSeq Size:** 12615 bp

**RefSeq ORF:** 1554 bp

**Locus ID:** 953

**UniProt ID:** [P49961](#)

**Cytogenetics:** 10q24.1

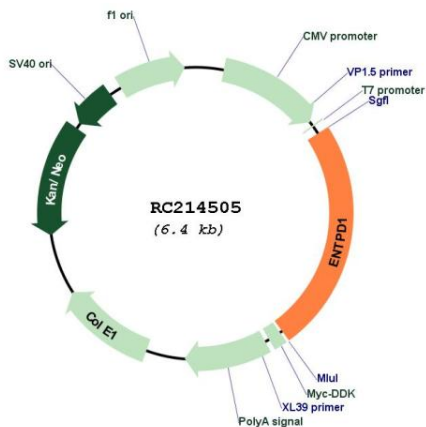
**Protein Families:** Transmembrane

**Protein Pathways:** Purine metabolism, Pyrimidine metabolism

**MW:** 59.2 kDa

**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 RC214505