

Product datasheet for **RR205349**

Entpd2 (NM_172030) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd2 (NM_172030) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Entpd2
Synonyms:	Cd39l1; NTPDase2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205349 representing NM_172030
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGAAAGTTGGTGTCACTGGTGCCACCCTGCTGTGGCTGCCGCGGGCCTCGCCGGCCTTCTGC
 TACTTTGCGTCCCTACCCAAGACGTCCGGGAGCCGCCCGCCCTCAAGTACGGCATTGTCCTGGATGCGGG
 CTCTTCACACACATCCATGTTTGTCTACAAGTGGCCAGCGGACAAGGAGAATGACACAGGCATCGTGGGC
 CAGCACAGCTCTTGTGATGTTCAAGGTGGTGGCATCTCCAGCTATGCAAATGACCCTCTAAGGCAGGCC
 AGAGTCTGGTCCGATGCCTTGGCAGGCCCTTCGGGATGTACCCAGAGACAGACATGCTAGCACACCACT
 CTACCTGGGAGCTACAGCAGGCATGCGCCTGCTCAACCTGACCAGCCCAGAGGCCACAGCCAGGGTCTT
 GAGGCAGTGACACAGACGCTCACACAGTACCCCTTTGACTTCCGTGGTGTGCGATCCTCTCGGGACAGG
 ATGAAGGGGTGTTGGCTGGGTGACTGCCAACTACCTGCTGGAGAATTCATCAAGTATGGCTGGTGGG
 CCGGTGGATACGGCCAAGGAAGGAACACTGGGGCCATGGACCTTGGGGGTGCTTCGACACAGATCACC
 TTTGAGACAACCAAGTCCCTCTGAAGATCCAGGCAACGAGGTTCAATTTGCGACTCTATGGCCAGCATTACC
 GCGTTTACACACATAGCTTCTCTGCTATGGCCGAGACCAGATTCTCTGAGGCTTCTGGCCAGTGCCCT
 CCAGATCCATCGCTTCCACCCCTGCTGGCCAAAGGGCTACTTACCCAAGTGTGCTCCAGGAAGTCTAC
 CAGTCGCCATGCACGATGGGTACAGCTCCCGGGCCTTCAATGGCAGTGCATCGTCAGCCTGTCAGGAA
 CCAGCAATGCTACCCTGTGCTGACCTCGTCTCTCGGCTCTTCAACATCTCTCTGCCCCTTTTCCCA
 ATGCTCCTTCAATGGGGTCTTCCAGCCTCCCGTACTGAAACTTCATAGCCTTTTCTGCTTCTACTAT
 ACTGTGGACTTCTGACAACAGTGTGGGGTGCCTGTGGGAACCCTGAAGCAGCTGGAGGAAGCCACAG
 AGTACCTGCAACCAGACATGGACTGAACCTCAGGCCGAGTGCCAGGACAAAAGACCCGCTGGTCTGA
 CTACTGTGCTGTAGCCATGTTTATACATCAGCTTCTGAGCCGTGGTTACCACTTCGATGAGCGCTCCTTC
 AGAGAAGTGGTCTTCAAAGAAGGCTGCAGACACGGCTGTCGGCTGGGCGCTGGGCTACATGCTGAATT
 TCACTAACCTGATTCCTGCCACCTCCCGGACTACGCAAGGGCACCCACTTCAGCTCCTGGGTGCTCT
 CCTGCTGCTTTCACAGTCTGATCTTGGCGGCGTGGTCTGCTCCTGCGCCAGGTGCGTTCTGCCAAG
 TCTCCAGGCGCCCTC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205349 representing NM_172030
 Red=Cloning site Green=Tags(s)

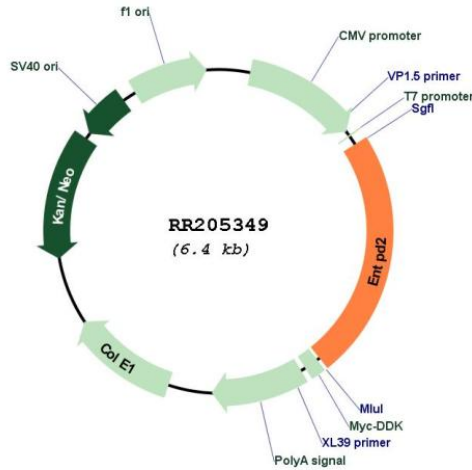
MAGKLVSLVPPLLLAAAGLAGLLLLCVPTQDVREPPALKYIVLDAGSSHTSMFVYKWPADKENDTGIVG
 QHSSCDVQGGGISSYANDPSKAGQSLVRCLEQALRDVPRDRHASTPLYLGATAGMRLNLTSPPEARVL
 EAVTQTLTQYPFDFRGARILSGQDEGVFGWVTANYLLENFIKYGWVGRWIRPRKGLGAMD LGGASTQIT
 FETTSPSEDPGNEVHLRLYGQHYRVYTHSFLCYGRDQILLRLLASALQIHRFHPCWPKGYSTQVLLQEVY
 QSPCTMGQRPRAFNGSAIVSLSGTSNATLCRDLVSRLFNISSCPFSQCSFNGVFPVPTGNFIAFSAFYY
 TVDFLTTVMGLPVGTLKQLEEATEITCNQWTWELQARVPGQKTRLADYCAVAMFIHQLLSRGYHFDERSF
 REVVVFQKKAADTAVGWALGYMLNFTNLIPADLPGLRKGTHFSSWVALLLLFTVLI LAALVLLLRQVRSK
 SPGAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM_172030

ORF Size: 1485 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_172030.1](#), [NP_742027.1](#)

RefSeq Size: 1900 bp

RefSeq ORF: 1488 bp

Locus ID: 64467

UniProt ID: [O35795](#)

Cytogenetics: 3p13

MW: 54.4 kDa

Gene Summary: catalyzes the hydrolysis of extracellular nucleotides; may regulate nucleotide mediated signaling [RGD, Feb 2006]