

## Product datasheet for **RR204121**

### Entpd1 (NM\_022587) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd1 (NM_022587) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Entpd1
Synonyms:	NTPDase-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR204121 representing NM\_022587  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGATATAAAGATTCTAAGTGAAGAGATTTTGCTCCAAAATATTCTGATCATCTTGGTTTCT  
 CCTCTGTCTTGGCTGTGATAGCTTTGATTGCTGTGGGACTGACCCAGAACAACCAATTGCCAGAAAATGT  
 TAAGTATGGGATTGTGCTGGATGCCGGTCTGTCTCACACCAACCTGTACATCTACAAGTGGCCGGCTGAG  
 AAGGAGAATGATACAGGAGTGGTGCAGCAGTTAGAAGAATGCCAAGTGAAGGTCCCGGAATCTCAAAAT  
 ACGCTCAGAAAACAGATGAAATAGCTGCATATCTGGCTGAATGCATGAAAATGTCCACTGAGCGGATACC  
 AGCGTCCAAACAGCACCAGACACCCGTGTACCTGGGAGCCACCGCGGCATGCGCTTGCTCAGAATGGAA  
 AGCAAGCAATCGGCAGACGAAGTCTGGCTGCAGTGTGAGGAGCCTGAAGAGCTACCCCTTTGACTTCC  
 AGGGCGCCAAGATCATCACTGGCAGGAGGAAGGGCCATGGGTGGATTACTATTAACATCTGCTGGG  
 CAGATTCCTCAGAACAGAGTTGGCTAACTTCTCAGACAGCCAGAAACAGGCAACCTTTGGCGCT  
 TTGGATCTTGGCGGAGCTTCTACACAGATCACCTTCGTGCCCTAACAGCACTAGAGGCCCCAGAAA  
 CCTCCCTGCAGTTCCTCTACGGCACGGACTACACCGTGTACACACACAGTTCCTGTGCTATGGGAA  
 GGATCAGGCACTCTGGCAGAAAATGGCCAGGACATTCAGGTTTCAAGTGGTGGGATTCTCAAGGACCCG  
 TGCTTTTACCCAGGATATAAGAAGTGTGAATGTAAGCGAACTCTATGGCACTCCCTGCACCAAGAGAT  
 TTGAGAAGAAGCTACCGTTTAAATCAGTTTCAAGTCCAGGGCACTGGAGACTACGAACAGTCCACCAGAG  
 CATCCTCAAGCTTTCAACAACAGCCACTGCCCTTACTCCAGTGTGCCCTCAACGGTGTCTTCTACCA  
 CCTCTCCAGGGGAGTTTGGGGCATTCTGCTTCTACTTTGTGATGGACTTTTTAAGAAGATGGCGA  
 ACGACAGTGTCTCTCAGGAGAAAATGACTGAGATAACAAAAAATTTTGTCAAAGCCTGGGAGGA  
 GGTAAGGCATTTATCCTACAGTAAAGGAGAAGTACCTGAGTGAATACTGTTTCTCGGGGACCTACATC  
 CTGTCTCTCCTTCTGCAAGGCTATAACTTACGGGAACCTCCTGGGACCAGATTCATTTTATGGCAAGA  
 TCAAAGACAGCAACGCAGGGTGGACTTTGGGCTACATGCTGAACTTGACCAACATGATCCAGCTGAACA  
 GCCATTATCCCCGCTCTCCCTCACTCCACCTACATCAGCCTCATGGTTCTTCTCCCTGGTCTTGGTC  
 GCCATGGTCATCACAGGGCTGTTTCATCTTTAGCAAGCCTTCGTATTTCTGGAAAGAGGCAGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204121 representing NM\_022587  
 Red=Cloning site Green=Tags(s)

MEDIKDSKVKRFCSKNILIIILGFSSVLAVIALIAVGLTQNKPLPENVKYIVLDAGSSHTNLYIYKWPAE  
 KENDTGVVQLEECQVKGPGISKYAQKTDEIAAYLAECMKMSTERIPASKQHQTTPVYLGATAGMRLRME  
 SKQSADEVLAAVSRSLKSYPDFQGAIIITGQEEGAYGWITINYLLGRFTQEQSWLNFISDSQKQATFGA  
 LDLDGGASTQITFVPLNSTLEAPETSLQFRLYGTDTYVYTHSFLCYGKDQALWQKLAQDIQVSSGGILKDP  
 CFYPGYKKVVNSEL YGTPCTKRFEKLPFNQFVQGTGDYEQCHQSILKLFNNSHCPYSQCAFNGVFLP  
 PLQGSFGAFSAFYVMDFFKMANDSVSSQEKMTEITKNFCSKPWEEVKASYPTVKEKYLSEYCFSGTYI  
 LLLLLQGYNFTGTSWDQIHFMGKIKDSNAGWTLGYMLNLTNMIPAEQPLSPPLPHSTYISLMVLFSLVLV  
 AMVITGLFIFSKPSYFWKEAV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

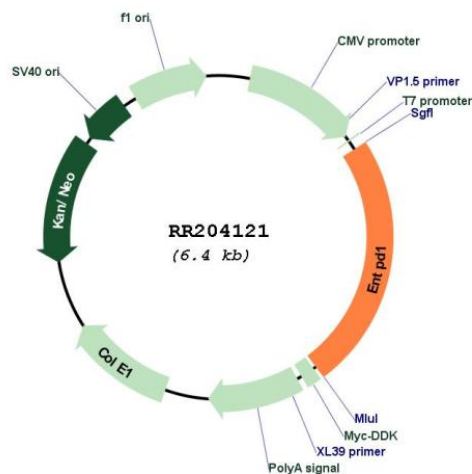
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_022587

ORF Size: 1533 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\\_022587.2](#), [NP\\_072109.2](#)

**RefSeq Size:** 4125 bp

**RefSeq ORF:** 1536 bp

**Locus ID:** 64519

**Cytogenetics:** 1q54

**MW:** 57.3 kDa

**Gene Summary:** has apyrase activity; may inactivate signaling mediated by extracellular nucleotides [RGD, Feb 2006]