

## Product datasheet for **RR206047**

### Entpd8 (NM\_001033565) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Entpd8 (NM_001033565) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Entpd8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR206047 representing NM\_001033565  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGACTTTCCTGGAAGGAACGGGTCTTCATGGTCTGTGGGAGTTGCAGCAGCTTCTGGCCTACCA  
 TGCTCATCCTCATCCTGGTGAAAGCAACCAATGTTCTCCTGCCTGCAGACACCAAGTTGGGATCCTGTT  
 TGACGCCGGCTCCTCCACACATCACTGTTTGTGTACCAAGTGGCCAGCAAACAAGGAGAAGGACACAGGA  
 GTGGTCAGCCAGGCCCTGGCTTGCAGGTAGAAGGACCGGAATCTCTTCTACACCTCTGACCCGACAC  
 AGGCTGGGAGAGCCTGAAGAGCTGCCTGCAGGAGGCGTGGCACTGATCCACAGACCCAGCATCCAGT  
 GACGCCGCATTCTGGGGCCACAGCAGGAATGAGGCTGCTCAGCCAGAAGAACAGCTCTCAGGCTCAA  
 GACATCCTAGCTGCAGTCTCCAGACACTGAGCAGGGCTCCGGTGGACTTTTGGGAGCCAGGATCCTGG  
 CTGGGCAGGATGAAGTGCCTTTGGTTGGATCACTGTCAACTACGTCCTGGGAATGCTCCTGAAGTATTC  
 GTCTGGACAATGGATCCTGCCTGAAGATGGGACGCTAGTTGGTGTCTGGACCTTGGCGGGCCTCCAGC  
 CAGATCAGCTTTGTGCCTCAGGGCCCCATCCTGGACCAGAGCACCAGGTTACCTCCCGCTGTACGGCG  
 CCAATTACAGTGTCTACACTCACAGCTACCTCTGCTTTGGGCGGGACCAGATCCTAAGAAGGCTCCTGGC  
 TGAAGTGGTACAGAGCAGCCAGGTAGCCCGGGTACAGACCCATGCTACCACAGTGGCTACCAGGCCACA  
 CTGTCACTGGCTTCTTGTATGATTACCCCTGCGTCCACACTCCAGATCCCTGAACTACACCCAGAACC  
 TCACAGTTGAAGGGATAGGCAACCTGGGAAGTGTGTGGCAGCCCTCCGGGGTCTCTTCAACTTCTCCAG  
 CTGTAAGGGCCAAGAGGATTGTGCTTCAATGGAGTCTACCAGCCTCCGTGCATGGCCAGTTCTATGCA  
 TTTTCAAACCTTTACTACACCTCCAGTTCCTCAACCTCACCTCCAGGCAGCCACTGAACATCGTCAATG  
 AACTATCTGGAAGTTCTGTGCAAAACCTGGAGACTGGTGAAGACAGCTACCTGGCAGGAGCGTG  
 GCTACGGGACTACTGTGCCTCAGGCCTATACATCCTCGTGTGCTGGAGGGCTACAAATTCAGTGAG  
 GAGACCTGGCCCAACATCCAGTTCAGAAAGCAGGAGGCGGCACGGACATTGGCTGGACACTGGGCTTCA  
 TGCTGAACCTGACAGGCATGATCCAGCTGAGGCGCTGACCCAGTGGCGGGCTCAGAGCTACAGCATCTG  
 GATAGCTGGAGTAGTGTTCAGTGTGACCCCTCGTGGCCATTCTGGGGCAGCTGCAGTCCAGCTCTTC  
 TGGACCCAGGAC

**ACGGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>RR206047 representing NM\_001033565  
 Red=Cloning site Green=Tags(s)

MRLSWKERVFMVLLGVAAASGLTMLILILVKATNVLLPADTKFGILFDAGSSHTSLFVYQWPANKEKDTG  
 VVSQALACQVEGPGISSYTSPTQAGESLKSCLQEALALIPQTQHPVTPAFLGATAGMRLLSQKNSSQAQ  
 DILAASVQTL SRAPVDFWGARILAGQDEGAFGWITVNYVLGMLLKYSQGWILPEDGTLVGALDLGGAST  
 QISFVPQGPILDQSTQVTFRLYGANYSVYTHSYLFCGRDQILRLLAELVQSSQVARVRHPCYHSGYQAT  
 LSLASLYDSPCVHTPDSLNYTQNLVEGIGNPGNCVAALRGLFNFSSCKGQEDCAFNGVYQPPVHGQFYA  
 FSNFYTFQFLNLSRQPLNIVNDTIWKFQKWPRLVEDSYPGQERWLRDYCASGLYILVLLLEGYKFS  
 ETWPNIQFQKQAGGTDIGWTLGFMLNL TGMIPAEAL TQWRAQSYSIWIAGVVFVAVLTLVAILGAAAVQLF  
 WTQD

**TRTRPLEQKLI SEEDLAANDILDYKDDDDKV**

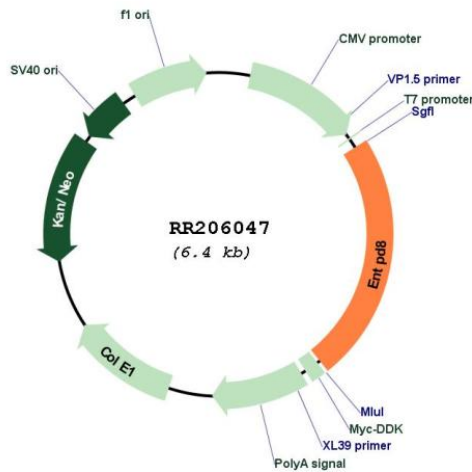
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001033565

ORF Size: 1482 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\\_001033565.1](#), [NP\\_001028737.1](#)

**RefSeq Size:** 1742 bp

**RefSeq ORF:** 1485 bp

**Locus ID:** 613267

**UniProt ID:** [Q5DRK1](#)

**Cytogenetics:** 3p13

**MW:** 54.3 kDa

**Gene Summary:** Canalicular ectonucleoside NTPDase responsible for the main hepatic NTPDase activity. Ectonucleoside NTPDases catalyze the hydrolysis of gamma- and beta-phosphate residues of nucleotides, playing a central role in concentration of extracellular nucleotides. Has activity toward ATP, ADP, UTP and UDP, but not toward AMP (By similarity).[UniProtKB/Swiss-Prot Function]