

## Product datasheet for **RR209085**

### Impdh2 (NM\_199099) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Impdh2 (NM_199099) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Impdh2
Synonyms:	IMPD 2; IMPDH 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR209085 representing NM\_199099  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACTACCTGATTAGCGGAGGCACTTCTTACGTGCCAGACGACGGCTCACCGCACAGCAGCTCT  
 TCAACTGCGGGGACGGCCTGACCTACAATGACTTTCTCATTCTTCTGGATATATCGACTTCACTGCGGA  
 CCAGGTGGACTTGACCTCTGCTCTAACCAAGAAGATTACTCTGAAGACCCCTTGGTTTCTCACCTATG  
 GACTGTACGGAGGCTGGAATGGCCATCGCAATGGCGCTTACAGGAGGCATTGGCTTCACTCCACCACA  
 ACTGCACACCTGAATCCAGGCCAATGAAGTTCGGAAAGTGAAGAAATATGAACAGGGATTCACTACTGA  
 CCCTGTGGTCTTAGCCCAAGGATCGTGTGCGCGATGTTTTGAGGCCAAAGCCAGGCATGGCTTCTGT  
 GGTATCCCATCACAGATACCGCCGGATGGGAGTGGATTGGTGGGCATCATCTCTCGAGGGACATTG  
 ACTTCTCAAGGAGGAAGAGCATGATCGCTTCTTGAAGAGATCATGACTAAGAGAGAAGATTTAGTGGT  
 AGCCCTGCCGGCTCACTCTAAAAGAAGCAAATGAAATTCGACGCGCAGTAAAAGGGAAAGTTGCC  
 ATTTGTGAATGAGAGTGATGAGCTGGTAGCCATCATCGCCCGACAGACCTCAAGAAGAATCGTGACTACC  
 CACTGGCTTCAAAGATACCAAAAAGCAACTACTGTGTGGGCGAGCCATTGGCACCCATGAGGATGACAA  
 GTATCGGCTGGACTTACTGGCCCTTGTGGTGTGGATGTGGTAGTTTTGGACTCTTCCAGGGAACTCC  
 ATTTTCCAATCAATATGATCAAGTACATCAAGGAAAAATACCCCAATCTCCAGGTCATCGGAGGCAATG  
 TAGTCACTGTCTCAAGCCAAGAACCTCATCGACGCAGGTGTGGACGCTCTGCGAGTCGGCATGGGAAG  
 TGGTCCATCTGCATCACCCAGGAAGTGTGGCCAGTGGGCGACCCCAAGCAACAGCAGTATACAAGGTC  
 TCTGAGTATGCCCGTCTTCCGGTGTCCCTGTTATTGCTGATGGAGGAATCCAGAATGTGGGTCAATTG  
 CCAAAGCTTTGGCTCTTGGGCTCTACAGTCATGATGGGCTCCCTCTTGGCTGCCACCCTGAGGCCCC  
 TGGTGAGTACTTCTTCCGATGGGATCCGGCTGAAGAAGTATCGTGGTATGGGCTCTCTTGTATGCCATG  
 GACAAACACCTCAGCAGCCAGAACCATTTTCAAGTGAAGCTGACAAGATCAAAGTGGCCCAAGGAGTTT  
 CAGGGGAGTGCAGGACAAAGGCTATCCACAAGTTTGTCCCTATTTGATTGCTGGCATCCAGCATTCT  
 CTGTCAGGACATTGGTGCCAAGAGCTTAACCCAAAGTCAGAGCCATGATGTACTCGGGGAACTTAAATTT  
 GAGAAGAGAACGTCCTCAGCTCAGTGGAAGGTGGCGTTCACGGCCTCCATTCGTATGAGAAACGGCTCT  
 TC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209085 representing NM\_199099  
 Red=Cloning site Green=Tags(s)

MADYLISGGTSYVPDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKITLKTPLVSSPM  
 DTVTEAGMAIAMALTGGIGFIHHNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFCAKARHGFC  
 GIPITDTGRMGSRVGISSRDIDFLKEEHRFLLEEIMTKREDLVVAPAGVTLKEANEILQRSKKGLP  
 IVNESDELVAIIARTDLKKNRDYPLASKDTKKQLLCGAAIGTHEDDKYRLDLLALAGVDVVLDSSQGNS  
 IFQINMIKIYIKEKYPNLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEVLASGRPQATAVYKV  
 SEYARRFGVPVIADGGIQNVGHIAKALALGASTVMMGSLLAATTEAPGEYFFSDGIRLKKYRGMGSLDAM  
 DKHLSSQNRVYFSEADKIKVAQGVSGAVQDKGSIHKFVPLYIAGIQHSCQDIGAKSLTQVRAMMYSSELKF  
 EKRTSSAQVEGGVHGLHSYEKRLF

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_199099

**ORF Size:** 1542 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\\_199099.2](#), [NP\\_954530.1](#)

**RefSeq Size:** 1677 bp

**RefSeq ORF:** 1545 bp

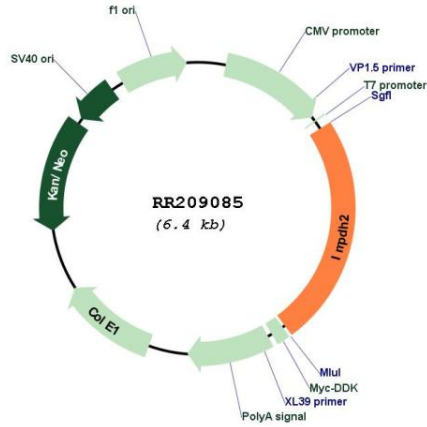
**Locus ID:** 301005

**Cytogenetics:** 8q32

**MW:** 55.8 kDa

**Gene Summary:** mouse homolog catalyzes the conversion of IMP to XMP in guanine nucleotide biosynthesis [RGD, Feb 2006]

**Product images:**



Circular map for RR209085