

Product datasheet for **MC228340**

Impdh1 (NM_001302933) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Impdh1 (NM_001302933) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Impdh1
Synonyms:	B930086D20Rik; IMPDH-I
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC228340 representing NM_001302933
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAACCGCTCTACCCCCACCGAGTCCGGGCTGCTCTGCCCGTCTGCAGGGAGGTGGAGCGG
 CTGCCGCTCCAGAGCCCGGAGCCCGCAACCCGGGACATGAGACCCGGCGCAGCGGTACAGCGCCCG
 CCTGCTGCAGGCCGGCTACGAGCCGGAGAGCAGCATGGCCGACTACCTGATCAGCGGCGGCACCGGCTAC
 GTTCCCGAGGATGGGCTCACCGCGCAGCAGCTCTTTGCCAACGCGGATGGCCTCACCTACAACGACTTCC
 TGATCCTCCAGGATTCATAGACTTCATAGCTGATGAAGTGGACCTGACATCAGCCCTGACCCGGAAGAT
 CACACTGAAGACACCATTGATCTCGTCTCCCATGGATACAGTGACAGAGGCTGATATGGCCATTGCAATG
 GCTCTCATGGGAGGAATTGGTTTCATTCATCACAACGTACCCAGAGTCCAGGCCAATGAAGTACGGA
 AGGTCAAGAAGTTTGAGCAAGGCTTCATCAGACCCCTGTGGTCTGAGCCCTTACATACTGTGGGTGA
 TGTTCTGGAGGCCAAGATACAGCATGGCTTCTCTGGTATCCCATCACCGGACGGGCACCATGGGGAGC
 AAGCTGGTGGGCATCGTACCTCCCGAGACATTGACTTCCTTGCTGAGAAGGACCACACCACCTCTCA
 GTGAGGTGATGACTCCGAGGGTCTGAGCTGGTGGTGGCTCCAGCAGGTGTGACATTGAAAGAAGCAATGA
 GATCTTGACAGCGCAGCAAGAAAGGGAAGCTGCCCATAGTCAACGATCAAGATGAGCTGGTAGCCATCATT
 GCGCGCACAGACCTGAAGAAGAAGAGAGACTACCTCTGGCCTCCAAGGACTCCCAAAACAGCTGTTGT
 GTGGGGCAGCTGTGGGCACCCGTGAGGATGACAAATACCGCTGGACCTGCTCACTCAGGCCGGTGTGTA
 CGTCATAGTACTAGATTCATCCAGGGGAACTCAGTGTATCAGATCGCCATGGTGCATATATCAAGCAG
 AAGTACCCACCTCCAAGTGATTGGGGAAATGTGGTACAGCAGCCAGGCCAAGAAGTATTGATTGATG
 CTGGTGTGGACGGGCTTCGTGTGGGCATGGGCTGTGGTCCATCTGCATCACCCAGGAAGTATGGCCTG
 TGGCCGACCCAGGGGACTGCTGTCTACAAGGTGGCCGAGTACGCCGAGTTTTGGGGTCCCGTAAATA
 GCGGATGGTGGCATCCAGACCGTGGCCATGTGGTCAAAGCCCTGGCACTTGGAGCCTCTACAGTAAATGA
 TGGGCTCCCTGCTGGCTGCCACCACGGAGGCGCCTGGTGAATACTTCTTCTCAGATGGGGTGAAGCTGAA
 GAAGTACCGGGCATGGTTCTCTGGACCCATGGAGAAGAGCAGCAGCCAGAAAAGATACTTCAGT
 GAGGGGGATAAAGTGAAGATCGCACAAGGTGTCTCCGGTCCATCCAGGATAAAGGCTCCATTGAGAAGT
 TTGTGCCCTACCTCATAGCAGGGATCCAGCATGGCTGCCAGGATATTGGGGCCAAAGCCTATCTGTCT
 GCGATCCATGATGACTCAGGAGAGCTCAAGTTTGAGAAGCGGACCATGTGGCCAGATTGAGGGTGGC
 GTGCACGGCTACACTTTACGAGAAGCGGCTGTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302933
- Insert Size:** 1719 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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:	<ol style="list-style-type: none">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_001302933.1 , NP_001289862.1
RefSeq Size:	2620 bp
RefSeq ORF:	1719 bp
Locus ID:	23917
UniProt ID:	P50096
Cytogenetics:	6 A3.3
Gene Summary:	<p>Catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth. Could also have a single-stranded nucleic acid-binding activity and could play a role in RNA and/or DNA metabolism. It may also have a role in the development of malignancy and the growth progression of some tumors.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>