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Product datasheet for MC228339

Impdh1 (NM_001302934) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Impdh1 (NM_001302934) 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

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Fully Sequenced ORF:

>MC228339 representing NM_001302934
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAACCGCTCTCACCCCCACCGGAGTCCGGGCTGCTCTCGCCGCTGCTGCAGGGAGGTGGAGCGG
CTGCCGCTCCAGAGCCCGGAGCCCGGCAACACCCGGGACATGAGACCGCGGCGCAGCGGTACAGCGCCCG
CCTGCTGCAGGCCGGCTACGAGCCGGAGAGCATGGCGGACTACCTGATCAGCGGCGGCACCGGCTACGTT
CCCGAGGATGGGCTCACCGCGCAGCAGCTCTTTGCCAACGCGGATGGCCTCACCTACAACGACTTCCTGA
TCCTCCCAGGATTCATAGACTTCATAGCTGATGAAGTGGACCTGACATCAGCCCTGACCCGGAAGATCAC
ACTGAAGACACCATTGATCTCGTCTCCCATGGATACAGTGACAGAGGCTGATATGGCCATTGCAATGGCT
CTCATGGGAGGAATTGGTTTCATTCATCACAACTGTACCCCAGAGTTCCAGGCCAATGAAGTACGGAAGG
TCAAGAAGTTTGAGCAAGGCTTCATCACAGACCCTGTGGTCCTGAGCCCTTCACATACTGTGGGTGATGT
TCTGGAGGCCAAGATACAGCATGGCTTCTCTGGTATCCCCATCACCGCGACGGGCACCATGGGGAGCAAG
CTGGTGGGCATCGTCACCTCCCGAGACATTGACTTCCTTGCTGAGAAGGACCACACCACCCTCCTCAGTG
AGGTGATGACTCCGAGGGTCGAGCTGGTGGTGGCTCCAGCAGGTGTGACATTGAAAGAAGCAAATGAGAT
CTTGCAGCGCAGCAAGAAAGGGAAGCTGCCCATAGTCAACGATCAAGATGAGCTGGTAGCCATCATTGCG
CGCACAGACCTGAAGAAGAACAGAGACTACCCTCTGGCCTCCAAGGACTCCCACAAACAGCTGTTGTGTG
GGGCAGCTGTGGGCACCCGTGAGGATGACAAATACCGCCTGGACCTGCTCACTCAGGCCGGTGCTGACGT
CATAGTACTAGATTCATCCCAGGGGAACTCAGTGTATCAGATCGCCATGGTGCACTATATCAAGCAGAAG
TACCCCCACCTCCAAGTGATTGGGGGAAATGTGGTGACAGCAGCCCAGGCCAAGAACTTGATTGATGCTG
GTGTGGACGGGCTTCGTGTGGGCATGGGCTGTGGTTCCATCTGCATCACCCAGGAAGTGATGGCCTGTGG
CCGACCCCAGGGGACTGCTGTCTACAAGGTGGCCGAGTACGCCCGACGTTTTGGGGTGCCGGTAATAGCG
GATGGTGGCATCCAGACCGTGGGCCATGTGGTCAAAGCCCTGGCACTTGGAGCCTCTACAGTAATGATGG
GCTCCCTGCTGGCTGCCACCACGGAGGCGCCTGGTGAATACTTCTTCTCAGATGGGGTGAGGCTGAAGAA
GTACCGGGGCATGGGTTCTCTGGACGCCATGGAGAAGAGCAGCAGCAGCCAGAAAAGATACTTCAGTGAG
GGGGATAAGGTGAAGATCGCACAAGGTGTCTCCGGTTCCATCCAGGATAAAGGCTCCATTCAGAAGTTTG
TGCCCTACCTCATAGCAGGGATCCAGCATGGCTGCCAGGATATTGGGGCCCAAAGCCTATCTGTCCTGCG
ATCCATGATGTACTCAGGAGAGCTCAAGTTTGAGAAGCGGACCATGTCGGCCCAGATTGAGGGTGGCGTG
CACGGCCTACACTCTTACGAGAAGCGGCTGTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001302934

Insert Size: 1716 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:	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_001302934.1, NP_001289863.1
RefSeq Size:	2617 bp
RefSeq ORF:	1716 bp
Locus ID:	23917
UniProt ID:	P50096
Cytogenetics:	6 A3.3
Gene Summary:	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] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. It encodes isoform 2 which is shorter by one amino acid compared to isoform 1.