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Product datasheet for MC217297

Impdh1 (NM_011829) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Impdh1 (NM_011829) 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:

>MC217297 representing NM_011829
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACTACCTGATCAGCGGCGGCACCGGCTACGTTCCCGAGGATGGGCTCACCGCGCAGCAGCTCT
TTGCCAACGCGGATGGCCTCACCTACAACGACTTCCTGATCCTCCCAGGATTCATAGACTTCATAGCTGA
TGAAGTGGACCTGACATCAGCCCTGACCCGGAAGATCACACTGAAGACACCATTGATCTCGTCTCCCATG
GATACAGTGACAGAGGCTGATATGGCCATTGCAATGGCTCTCATGGGAGGAATTGGTTTCATTCATCACA
ACTGTACCCCAGAGTTCCAGGCCAATGAAGTACGGAAGGTCAAGAAGTTTGAGCAAGGCTTCATCACAGA
CCCTGTGGTCCTGAGCCCTTCACATACTGTGGGTGATGTTCTGGAGGCCAAGATACAGCATGGCTTCTCT
GGTATCCCCATCACCGCGACGGGCACCATGGGGAGCAAGCTGGTGGGCATCGTCACCTCCCGAGACATTG
ACTTCCTTGCTGAGAAGGACCACACCACCCTCCTCAGTGAGGTGATGACTCCGAGGGTCGAGCTGGTGGT
GGCTCCAGCAGGTGTGACATTGAAAGAAGCAAATGAGATCTTGCAGCGCAGCAAGAAAGGGAAGCTGCCC
ATAGTCAACGATCAAGATGAGCTGGTAGCCATCATTGCGCGCACAGACCTGAAGAAGAACAGAGACTACC
CTCTGGCCTCCAAGGACTCCCACAAACAGCTGTTGTGTGGGGCAGCTGTGGGCACCCGTGAGGATGACAA
ATACCGCCTGGACCTGCTCACTCAGGCCGGTGCTGACGTCATAGTACTAGATTCATCCCAGGGGAACTCA
GTGTATCAGATCGCCATGGTGCACTATATCAAGCAGAAGTACCCCCACCTCCAAGTGATTGGGGGAAATG
TGGTGACAGCAGCCCAGGCCAAGAACTTGATTGATGCTGGTGTGGACGGGCTTCGTGTGGGCATGGGCTG
TGGTTCCATCTGCATCACCCAGGAAGTGATGGCCTGTGGCCGACCCCAGGGGACTGCTGTCTACAAGGTG
GCCGAGTACGCCCGACGTTTTGGGGTGCCGGTAATAGCGGATGGTGGCATCCAGACCGTGGGCCATGTGG
TCAAAGCCCTGGCACTTGGAGCCTCTACAGTAATGATGGGCTCCCTGCTGGCTGCCACCACGGAGGCGCC
TGGTGAATACTTCTTCTCAGATGGGGTGAGGCTGAAGAAGTACCGGGGCATGGGTTCTCTGGACGCCATG
GAGAAGAGCAGCAGCAGCCAGAAAAGATACTTCAGTGAGGGGGATAAGGTGAAGATCGCACAAGGTGTCT
CCGGTTCCATCCAGGATAAAGGCTCCATTCAGAAGTTTGTGCCCTACCTCATAGCAGGGATCCAGCATGG
CTGCCAGGATATTGGGGCCCAAAGCCTATCTGTCCTGCGATCCATGATGTACTCAGGAGAGCTCAAGTTT
GAGAAGCGGACCATGTCGGCCCAGATTGAGGGTGGCGTGCACGGCCTACACTCTTACGAGAAGCGGCTGT
ACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011829

Insert Size: 1545 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).

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_011829.3, NP_035959.2
RefSeq Size:	2454 bp
RefSeq ORF:	1545 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 (3) has multiple differences, compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon, compared to variant 1. The encoded protein (isoform 3) has a shorter N-terminus compared to isoform 1.