

Product datasheet for **MG208254**

Impdh2 (NM_011830) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Impdh2 (NM_011830) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Impdh2
Synonyms:	IMPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208254 representing NM_011830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGACTACCTGATTAGCGGAGGCACCTCTTACGTGCCGGACGACGGGCTCACAGCGCAGCAGCTCT
 TCAACTGCGGGGACGGCCTCACCTACAATGATTTTCTCATTCTTCTGGGTATATCGACTTCACTGCAGA
 TCAGGTGGACTTGACGTCTGCTCTAACTAAGAAGATTACACTAAAGACCCATTGGTTTCTCACCCATG
 GACACTGTACAGAGGCTGGAATGGCCATCGCGATGGCGCTTACAGGAGGTATTGGTTTCTCACCCACA
 ACTGCACACCTGAATCCAGGCCAATGAAGTTCGGAAAGTGAAGAAATACGAACAGGGATTCACTACTGA
 CCCCCTGGTCTTAGCCCAAGGATCGTGTACGCGATGTTTTGAGGCCAAAGCCAGGCATGGCTTCTGT
 GGTATCCCATCACAGATACAGGCCGATGGGGAGTGGTGGGCATCATCTCTCAAGGGACATTG
 ATTTCTCAAGGAGGAAGAGCATGACCGGTTCTTGAAGAGATCATGACTAAGAGGGAAGATTTGGTGGT
 CGCCCTGCCGGCTCACTCTGAAAGAGGCAAATGAGATTCTGCAGCGAAGTAAAAGGGAAAGTTGCC
 ATGTGTAATGAAAATGATGAGCTGGTAGCCATCATTGCCCGACAGACCTAAAGAAGAATCGTGATTACC
 CCCTGGCTCAAAGATGCCAAGAAGCAACTGCTGTGGGGCAGCCATTGGCACTCATGAGGATGACAA
 GTATAGGCTGGACTTACTGGCCCTTGTGGTGTGGATGTAGTGGTTTTGGACTCTTCCAGGGAACTCC
 ATCTTCAAATCAATATGATCAAATACATCAAGGAGAAGTATCCAGTCTACAGGTCATTGGAGGCAATG
 TAGTCACTGTGCGCAAGCAAGAACCCTCATAGATGCAGGTGTAGATGCTTTGCGAGTCGGCATGGGAAG
 TGGTCCATCTGCATCACCCAGGAAGTGTGGCCTGTGGCGGCCCAAGCCACAGCAGTGTACAAGGTC
 TCTGAATATGCCCGTCTTGGGCTTCCACAGTCTGATGGGCTCCCTCTGGCTGCCACCATTGAGCCCC
 TGGCGAGTACTTCTCTCAGATGGGATCCGGCTGAAGAAATACCGAGGTATGGGTTCTCTTGATGCCATG
 GACAAACATCTCAGCAGCCAGAACCATACTTCACTGAAGCTGACAAAATCAAAGTGGCCCAAGGAGTTT
 CAGGGGAGTGCAGGACAAGGGTCTATCCACAAGTTCGTTCTTACCTGATTGCTGGCATCCAGCATT
 CTGTCAGGACATTGGTCCAAGAGTTTAAACCAAGTCAGAGCCATGATGTACTCGGGGAGCTTAAATTT
 GAGAAGAGGACATCTCTGCTCAGTGGAAAGTGGCGTCCACAGCCTCCATTCGTACGAGAAACGGCTTT
 TC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208254 representing NM_011830
 Red=Cloning site Green=Tags(s)

MADYLISGGTSYVPDGLTAQQLFNCGDGLTYNDFLILPGYIDFTADQVDLTSALTKKITLKTPLVSSPM
 DTVTEAGMAIAMALTGGIGFIHNCNCTPEFQANEVRKVKKYEQGFITDPVVLSPKDRVRDVFCAKARHGFC
 GIPITDTGRMGSRVGISSRDIDFLKEEHDRFLEEIMTKREDLVVAPAGVTLKEANEILQRSKKGKLP
 IVNENDELVAIIARTDLKKNRDYPLASKDAKKQLLCGAAIGTHEDDKYRLDLLALAGVDVVLDSSQGN
 IFQINMIKIYIKEYPSLQVIGGNVVTAAQAKNLIDAGVDALRVGMGSGSICITQEVLACGRPQATAVYKV
 SEYARRFVGPVIADGGIQNVGHIKALALGASTVMMGSLLAATTEAPGEYFFSDGIRLKKYRGMGSLDAM
 DKHLSSQNRYFSEADKIKVAQGVSGAVQDKGSIHKFVYPYLIAGIQHSCQDIGAKSLTQVRAMMYSGELKF
 EKRTSSAQVEGGVHLSHSYEKRLF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_011830
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:	<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_011830.2
RefSeq Size:	1632 bp
RefSeq ORF:	1545 bp
Locus ID:	23918
UniProt ID:	P24547
Cytogenetics:	9 F2
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]