

Product datasheet for **RR205019**

Impdh1 (NM_001108619) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Impdh1 (NM_001108619) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Impdh1
Synonyms:	IMPD 1; IMPDH 1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205019 representing NM_001108619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAACCGCTCTACCCCCACCGAGTCCGGGCTACTCTCGCCGCTGCTGCAGGGAGCGGAGCCG
 CTGCTGCTCCAGAGCCCGGAGCCCGCAACACCCGGGACATGAGACCGCGCGCAGCGGTACAGCGCCCG
 CCTGCTGCAGGCCGGCTACGAGCCGAGAGCATGGCGGACTACCTGATCAGCGCGGCACCGGCTACGTT
 CCCGAGGATGGGCTACCGCGCAGCAGCTCTTCGCCAACGCGGATGGCCTCACCTACAACGATTTCTGTA
 TCCTCCCAGGATTCATAGACTTCATAGCTGATGAAGTGGACCTGACATCAGCCCTGACCCGGAAGATCAC
 ACTGAAGACACCCTGATCTCGTCTCCCATGGATACCGTGACAGAGGCTGACATGGCCATTGCAATGGCT
 CTCATGGGAGGAATTGGTTTCATTCACCACAACGTACCCAGAGTTCAGGCCAATGAGGTGCGGAAGG
 TCAAGAAGTTTGAGCAAGGCTTCATCACAGACCCTGTGGTCTGAGCCCTTACATACCGTGGGTGATGT
 TCTGGAGGCCAAGATACAGCATGGCTTCTGGTATCCCTATCACCGCAACGGGCACCATGGGGAGCAAG
 CTGGTGATGACGCCGAGGATCGAGCTGGTGGTGGCTCCAGCAGGTGTGACATTGAAAGAGGCAAATGAGA
 TTTTGCAGCGCAGCAAGAAGGGGAACTGCCCATAGTCAACGATCAAGACGAGCTGGTAGCCATTATTGC
 ACGCACAGACCTGAAGAAGAACAGAGACTACCCTCTGGCCTCAAAGACTCCACAAACAGCTGTTGTGT
 GGGGCAGCTGTGGGCACCCGTGAGGATGACAAATACCGTCTGGATTTGCTCACTCAGGCCGGTGCTGACG
 TCATAGTACTAGATTCATCCAGGGGAACTCAGTATATCAGATCGCCATGGTGCATATATCAAGCAGAA
 GTACCCACCTCCAGGTGATTGGGGGAAACGTGGTGACAGCGGCCAGGCCAAGAACTTGATCGATGCC
 GGTGTGGATGGCTTCGTGTGGCATGGCTGTGGCTCCATCTGCATCACTCAGGAAGTGTGGCCTGTG
 GCCGCCCAGGGCACTGCTGTCTACAAGTGGCTGAGTATGCCCGCGCTTTGGGGTCCGGTAAATAGC
 TGATGGTGGTATCCAGACTGTGGCCATGTGGTCAAAGCCCTGGCGCTCGGAGCCTCTACAGTGATGATG
 GGCTCCTTGCTGGCTGCTACCACGGAGGCCCTGGTGAATACTTCTTCTCAGACGGGGTGAAGCTTAAAG
 AGTACCGAGGCATGGTTCCCTGGACGCCATGGAGAAGAGCAGCAGCAGCCAGAAGCGATACTTCAGTGA
 GGGGGACAAAGTGAAGATCGCACAGGGTGTCTCGGGCTCCATCCAGGATAAAGGCTCCATTCAGAAGTTT
 GTGCCCTACCTCATAGCAGGGATCCAGCATGGCTGTGAGGATATTGGGGCCAAAGCCTGTCTGTCTGCG
 GATCCATGATGTACTCAGGAGAGCTCAAGTTTGAAGAAGCGGACCATGTCAGCCAGATAGAGGGCGGTG
 GCACGGCCTACACTCTTACGAGAAGCGGCTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205019 representing NM_001108619
 Red=Cloning site Green=Tags(s)

MEEPLSPPESEGLLSPLLQGGGAAAPEPGARQHPGHETAARQYSARLLQAGYEPESMADYLISGGTGYV
 PEDGLTAQQLFANADGLTYNDFLILPGFIDFIADEVDLTSALTRKITLKTPLISSPMDTVTEADMAIAMA
 LMGGIGFIHNCNTEPFQANEVRKVKKFEQGFITDPVVLSPSHTVGDVLEAKIQHGFSGIPITATGTMGSK
 LVMTPRIELVVAPAGVTLKEANEILQRSKKGKLPVNDQDELVAIIARTDLKKNRDIPLASKDSHKQLLC
 GAAVGTREDDKYRLDLLTQAGADVIVLDSSQGNVYQIAMVHYIKQKYPHLQVIGGNVVTAAQAKNLIDA
 GVDGLRVGMCGSICITQEVMACGRPQGTAVYKVAEYARRFGVPVIADGGIQTVGHVVKALALGASTVMM
 GSLLAATTEAPGEYFFSDGVRLKKYRGMGSLDAMEKSSSSQKRYFSEGDKVKIAQGVSGSIQDKGSIQKF
 VPYLIAGIQHGCQDIGAQSLSVLRSMYSGLKFEKRTMSAQIEGGVHGLHSYEKRLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001108619
ORF Size:	1644 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_001108619.1 , NP_001102089.1
RefSeq Size:	2438 bp
RefSeq ORF:	1647 bp
Locus ID:	362329
Cytogenetics:	4q22
MW:	58.6 kDa