

Product datasheet for **RC202977L4V**

IMPDH2 (NM_000884) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	IMPDH2 (NM_000884) Human Tagged ORF Clone Lentiviral Particle
Symbol:	IMPDH2
Synonyms:	IMPD2; IMPDH-II
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000884
ORF Size:	1542 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202977).
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.
RefSeq:	NM_000884.2
RefSeq Size:	1712 bp
RefSeq ORF:	1545 bp
Locus ID:	3615
UniProt ID:	P12268
Cytogenetics:	3p21.31
Domains:	CBS, IMPDH
Protein Families:	Druggable Genome



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Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

MW: 55.8 kDa

Gene Summary: This gene encodes the rate-limiting enzyme in the de novo guanine nucleotide biosynthesis. It is thus involved in maintaining cellular guanine deoxy- and ribonucleotide pools needed for DNA and RNA synthesis. The encoded protein catalyzes the NAD-dependent oxidation of inosine-5'-monophosphate into xanthine-5'-monophosphate, which is then converted into guanosine-5'-monophosphate. This gene is up-regulated in some neoplasms, suggesting it may play a role in malignant transformation. [provided by RefSeq, Jul 2008]