

Product datasheet for TL312150

OriGene Technologies, Inc.

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IMPDH2 Human shRNA Plasmid Kit (Locus ID 3615)

Product data:

Product Type: shRNA Plasmids

Product Name: IMPDH2 Human shRNA Plasmid Kit (Locus ID 3615)

Locus ID: 3615

Synonyms: IMPD2; IMPDH-II

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell Selection:

Puromycin

Format: Lentiviral plasmids

Components: IMPDH2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 3615).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: NM 000884, NM 000884.1, BC006124, BC006124.1, BC009236, BC012840, BC015567,

NM 000884.3

UniProt ID: P12268

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]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).