

## Product datasheet for **KN202977BN**

### IMPDH2 Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	IMPDH2
Locus ID:	3615
Components:	<b>KN202977G1</b> , IMPDH2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN202977G2</b> , IMPDH2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN202977BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
RefSeq:	<u><a href="#">NM_000884</a></u>
UniProt ID:	<u><a href="#">P12268</a></u>
Synonyms:	IMPD2; IMPDH-II
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]



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## Product images:

