

Product datasheet for **KN310718BN**

Nampt Mouse 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:	Nampt
Locus ID:	59027
Components:	<p>KN310718G1, Nampt gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN310718G2, Nampt gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN310718BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_021524
UniProt ID:	Q99KQ4
Synonyms:	1110035O14Rik; AI314458; AI480535; NAmPRTase; Pbef; Pbef1; Visfatin
Summary:	<p>The secreted form behaves both as a cytokine with immunomodulating properties and an adipokine with anti-diabetic properties, it has no enzymatic activity, partly because of lack of activation by ATP, which has a low level in extracellular space and plasma (By similarity). Catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD. It is the rate limiting component in the mammalian NAD biosynthesis pathway. Plays a role in the modulation of circadian clock function. NAMPT-dependent oscillatory production of NAD regulates oscillation of clock target gene expression by releasing the core clock component: CLOCK-ARNTL/BMAL1 heterodimer from NAD-dependent SIRT1-mediated suppression. [UniProtKB/Swiss-Prot Function]</p>



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Product images:

