

Product datasheet for **KN202921BN**

Presenilin 2 (PSEN2) 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:	Presenilin 2
Locus ID:	5664
Components:	<p>KN202921G1, Presenilin 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN202921G2, Presenilin 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN202921BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	<u>NM_000447</u> , <u>NM_012486</u>
UniProt ID:	<u>P49810</u>
Synonyms:	AD3L; AD4; CMD1V; PS2; STM2
Summary:	<p>Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1 or PSEN2) or the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor such that, they either directly regulate gamma-secretase activity, or themselves act as protease enzymes. Two alternatively spliced transcript variants encoding different isoforms of PSEN2 have been identified. [provided by RefSeq, Jul 2008]</p>



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Product images:

