

Product datasheet for KN200386RB

OriGene Technologies, Inc.

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Neuraminidase (NEU1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: Neuraminidase

Locus ID: 4758

Components: KN200386G1, Neuraminidase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN200386G2, Neuraminidase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN200386RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

RefSeq: <u>NM 000434</u>

UniProt ID: Q99519

Synonyms: NANH; NEU; SIAL1

Summary: The protein encoded by this gene is a lysosomal enzyme that cleaves terminal sialic acid

residues from substrates such as glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A (the latter is also referred to as 'protective protein'). Mutations in this gene can lead to sialidosis, a

lysosomal storage disease that can be type 1 (cherry red spot-myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an

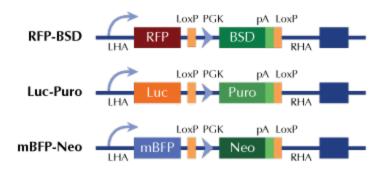
earlier age with increased severity. [provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter