

Product datasheet for KN206379BN

OriGene Technologies, Inc.

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Caspase 10 (CASP10) 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: Caspase 10

Locus ID: 843

Components: KN206379G1, Caspase 10 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN206379G2, Caspase 10 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN206379BND**, donor DNA containing left and right homologous arms and mBFP-Neo

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: NM 001206524, NM 001206542, NM 001230, NM 001306083, NM 032974, NM 032976,

NM 032977

UniProt ID: Q92851

Synonyms: ALPS2; FLICE2; MCH4

Summary: This gene encodes a protein which is a member of the cysteine-aspartic acid protease

(caspase) family. Sequential activation of caspases plays a central role in the execution-phase

of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic

processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein cleaves and activates caspases 3 and 7, and the protein itself is processed by caspase 8. Mutations in this gene are associated with type IIA autoimmune lymphoproliferative syndrome, non-Hodgkin lymphoma and gastric cancer. Alternatively spliced transcript variants encoding different isoforms have been described for

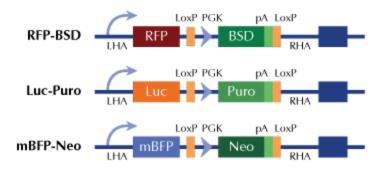
this gene. [provided by RefSeq, Apr 2011]





Product images:

Donor Vector Edited Chromosome



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