

## Product datasheet for KN206379LP

#### 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 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

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)

KN206379LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

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

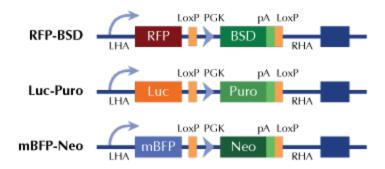
this gene. [provided by RefSeq, Apr 2011]





# **Product images:**

#### Donor Vector Edited Chromosome



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