

Product datasheet for **KN202896**

Cystatin SN (CST1) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: Cystatin SN
Locus ID: 1469
Components: **KN202896G1**, Cystatin SN gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGCAGGGTACTCAGATAC
KN202896G2, Cystatin SN gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGCTGGCCACCCTAGCTG
KN202896D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 AAACCGCCCT TAACATGGCC CGC

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_001898](#)

UniProt ID:

[P01037](#)

Synonyms:

cystatin 1; cystatin SA-I; cystatin SN; cysteine proteinase inhibitor, type 2 family; OTTHUMP00000030444; OTTHUMP00000164184

Summary:

The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. The type 2 cystatin proteins are a class of cysteine proteinase inhibitors found in a variety of human fluids and secretions, where they appear to provide protective functions. The cystatin locus on chromosome 20 contains the majority of the type 2 cystatin genes and pseudogenes. This gene is located in the cystatin locus and encodes a cysteine proteinase inhibitor found in saliva, tears, urine, and seminal fluid. [provided by RefSeq, Jul 2008]

Product images:
