

Product datasheet for KN202391RB

OriGene Technologies, Inc.

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Calcipressin 1 (RCAN1) 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: Calcipressin 1

Locus ID: 1827

Components: KN202391G1, Calcipressin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN202391G2, Calcipressin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN202391RBD**, 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: NM 001285389, NM 001285391, NM 001285392, NM 001285393, NM 001331016,

NM 004414, NM 203417, NM 203418

UniProt ID: P53805

Synonyms: ADAPT78; CSP1; DSC1; DSCR1; MCIP1; RCN1

Summary: The protein encoded by this gene interacts with calcineurin A and inhibits calcineurin-

dependent signaling pathways, possibly affecting central nervous system development. This gene is located in the minimal candidate region for the Down syndrome phenotype, and is overexpressed in the brain of Down syndrome fetuses. Chronic overexpression of this gene

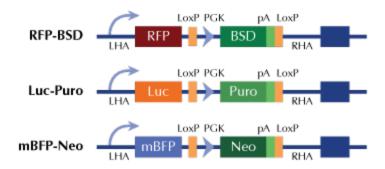
may lead to neurofibrillary tangles such as those associated with Alzheimer disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]





Product images:

Donor Vector Edited Chromosome



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