

Product datasheet for KN315238RB

S100a4 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

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

Donor DNA: Symbol: S100a4 Locus ID: 20198

KN315238G1, S100a4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN315238G2, S100a4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN315238RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 011311

UniProt ID: P07091

Synonyms: 18A2; 42a; Capl; FSp1; metastasin; Mts1; PeL98; pk9a

Calcium-binding protein that plays a role in various cellular processes including motility, **Summary:**

> angiogenesis, cell differentiation, apoptosis, and autophagy (PubMed:20519440). Increases cell motility and invasiveness by interacting with non-muscle myosin heavy chain (NMMHC) IIA/MYH9 (PubMed:8051043). Mechanistically, promotes filament depolymerization and increases the amount of soluble myosin-IIA, resulting in the formation of stable protrusions facilitating chemotaxis (PubMed:8051043). Modulates also the pro-apoptotic function of TP53 by binding to its C-terminal transactivation domain within the nucleus and reducing its protein levels (By similarity). Within the extracellular space, stimulates cytokine production

including granulocyte colony-stimulating factor and CCL24 from T-lymphocytes (PubMed:20103644). In addition, stimulates T-lymphocyte chemotaxis by acting as a

chemoattractant complex with PGLYRP1 that promotes lymphocyte migration via CCR5 and

CXCR3 receptors (By similarity).[UniProtKB/Swiss-Prot Function]



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

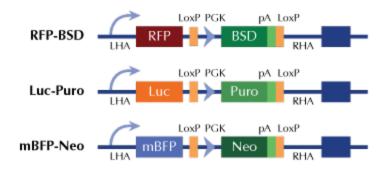
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Product images:

Donor Vector Edited Chromosome



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