

## 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:	RFP-BSD
Symbol:	S100a4
Locus ID:	20198
Components:	<p><b>KN315238G1</b>, S100a4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN315238G2</b>, S100a4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN315238RBD</b>, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
RefSeq:	<u><a href="#">NM_011311</a></u>
UniProt ID:	<u><a href="#">P07091</a></u>
Synonyms:	18A2; 42a; Cap1; FSp1; metastasin; Mts1; PeL98; pk9a
Summary:	<p>Calcium-binding protein that plays a role in various cellular processes including motility, 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]</p>



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## Product images:

