Product datasheet for KN315311BN

Satb2 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	Satb2
Locus ID:	212712
Components:	**KN315311G1**, Satb2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN315311G2**, Satb2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN315311BND**, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. **GE100003**, scramble sequence in pCas-Guide vector
RefSeq:	NM_139146, NM_001358580, NM_001358581
UniProt ID:	Q8VI24
Synonyms:	mKIAA1034
Summary:	Binds to DNA, at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-stranded DNA. Transcription factor controlling nuclear gene expression, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. Required for the initiation of the upper-layer neurons (UL1) specific genetic program and for the inactivation of deep-layer neurons (DL) and UL2 specific genes, probably by modulating Bcl11b expression. Repressor of Ctip2 and regulatory determinant of corticocortical connections in the developing cerebral cortex. May play an important role in palate formation. Acts as a molecular node in a transcriptional network regulating skeletal development and osteoblast differentiation.[UniProtKB/Swiss-Prot Function]

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Product images:

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