

Product datasheet for KN319455RB

Wnt5a Mouse Gene Knockout Kit (CRISPR)

Product data:

OriGene Technologies, Inc.

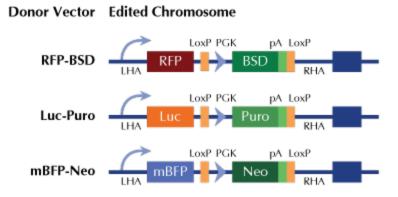
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Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	Wnt5a
Locus ID:	22418
Components:	 KN319455G1, Wnt5a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN319455G2, Wnt5a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN319455RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. GE100003, scramble sequence in pCas-Guide vector
RefSeq:	<u>NM 001256224, NM 009524</u>
UniProt ID:	<u>P22725</u>
Synonyms:	8030457G12Rik; Wnt-5a
Summary:	Ligand for members of the frizzled family of seven transmembrane receptors (PubMed:17117926). Can activate or inhibit canonical Wnt signaling, depending on receptor context (PubMed:16602827). In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta- catenin-induced reporter gene expression (PubMed:16602827). Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration (PubMed:17117926). Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor. Mediates motility of melanoma cells (By similarity). Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle (PubMed:10021340). Inhibits type II collagen expression in chondrocytes (By similarity). [UniProtKB/Swiss-Prot Function]



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Product images:



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

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