

Product datasheet for KN211665LP

OriGene Technologies, Inc.

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KSR2 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: KSR2 Locus ID: 283455

Components: KN211665G1, KSR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN211665G2, KSR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211665LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: <u>NM 173598</u>

UniProt ID: Q6VAB6
Synonyms: FLJ25965

Summary: Location-regulated scaffold connecting MEK to RAF. Has very low protein kinase activity and

can phosphorylate MAP2K1 at several Ser and Thr residues with very low efficiency (in vitro). Interaction with BRAF enhances KSR2-mediated phosphorylation of MAP2K1 (in vitro). Blocks MAP3K8 kinase activity and MAP3K8-mediated signaling. Acts as a negative regulator of MAP3K3-mediated activation of ERK, JNK and NF-kappa-B pathways, inhibiting MAP3K3-

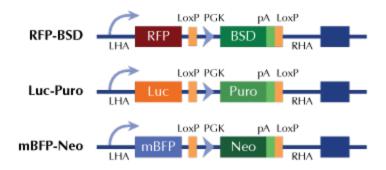
mediated interleukin-8 production.[UniProtKB/Swiss-Prot Function]





Product images:

Donor Vector Edited Chromosome



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