

Product datasheet for **KN219851**

VEGF Receptor 2 (KDR) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: VEGF Receptor 2
Locus ID: 3791
Components: **KN219851G1**, VEGF Receptor 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGACCCGGGCCGCTCTGT
KN219851G2, VEGF Receptor 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCTGCTGGCCGTCGCCCTG
KN219851D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 GGATCATGTA ACTCGCCTT

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:

[NM_002253](#)

UniProt ID:

[P35968](#)

Synonyms:

CD309; FLK1; VEGFR; VEGFR2

Summary:

Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc.. Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]

Product images:

