

## Product datasheet for **RC219851L3V**

### VEGF Receptor 2 (KDR) (NM\_002253) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	VEGF Receptor 2 (KDR) (NM_002253) Human Tagged ORF Clone Lentiviral Particle
Symbol:	KDR
Synonyms:	CD309; FLK1; VEGFR; VEGFR2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_002253
ORF Size:	4068 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219851).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_002253.2</a>
RefSeq Size:	6055 bp
RefSeq ORF:	4071 bp
Locus ID:	3791
UniProt ID:	<a href="#">P35968</a>
Cytogenetics:	4q12
Domains:	ptk, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane



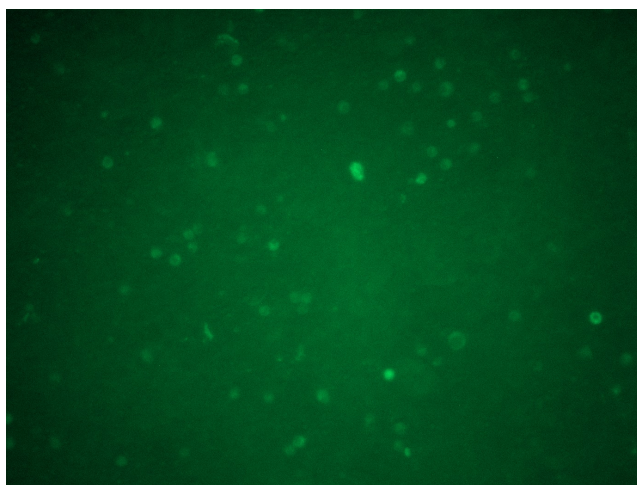
[View online »](#)

**Protein Pathways:** Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, VEGF signaling pathway

**MW:** 152 kDa

**Gene 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:



[RC219851L3] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC219851L3V particle to overexpress human KDR-Myc-DDK fusion protein.