

# Product datasheet for RC211665L1

## KSR2 (NM\_173598) Human Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Name:KSR2 (NM_173598) Human Tagged Lenti ORF CloneTag:Myc-DDKSymbol:KSR2Mammalian Cell Selection:NoneVector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)	Dreduct Turney	Everyonica Diagonida
Tag:       Myc-DDK         Symbol:       KSR2         Mammalian Cell       None         Selection:       PLenti-C-Myc-DDK (PS100064)         E. coli Selection:       Chloramphenicol (34 ug/mL)         ORF Nucleotide       The ORF insert of this clone is exactly the same as(RC211665).         Sequence:       Sgfl-Mlul         Cloning Scheme:	Product Type:	Expression Plasmids
Symbol:       KSR2         Mammalian Cell       None         Selection:       PLenti-C-Myc-DDK (PS100064)         E. coli Selection:       Chloramphenicol (34 ug/mL)         ORF Nucleotide       The ORF insert of this clone is exactly the same as(RC211665).         Sequence:       Restriction Sites:         Restriction Sites:       Sgfl-Mlul         Cloning Scheme:	Product Name:	KSR2 (NM_173598) Human Tagged Lenti ORF Clone
Mammalian Cell       None         Selection:       pLenti-C-Myc-DDK (PS100064)         E. coli Selection:       Chloramphenicol (34 ug/mL)         ORF Nucleotide       The ORF insert of this clone is exactly the same as(RC211665).         Sequence:       Restriction Sites:         Restriction Sites:       Sgfl-Mlul         Cloning Scheme:	Tag:	Myc-DDK
Selection:       pLenti-C-Myc-DDK (PS100064)         E. coli Selection:       Chloramphenicol (34 ug/mL)         ORF Nucleotide       The ORF insert of this clone is exactly the same as(RC211665).         Sequence:       Restriction Sites:         Restriction Sites:       Sgfl-Mlul         Cloning Scheme:	Symbol:	KSR2
E. coli Selection: Chloramphenicol (34 ug/mL) ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211665). Sequence: Sgfl-Mlul Cloning Scheme: Coning sites used for ORF Shuttling: Cloning Scheme: Sgfl ORF Mlul Cloning sites used for ORF Shuttling: EcoR1 BamH1 RBS Sgfl ORF		None
ORF Nucleotide       The ORF insert of this clone is exactly the same as(RC211665).         Sequence:       Restriction Sites:       Sgfl-Mlul         Cloning Scheme:       Cloning sites used for ORF Shuttling:         Cloning sites used for ORF Shuttling:         EcoR1         BamH1       RBS       Sgf1       ORF         Kozak         EcoR1       BamH1       RBS       Sgf1       ORF	Vector:	pLenti-C-Myc-DDK (PS100064)
Sequence: Restriction Sites: SgfI-Mlul Cloning Scheme: Coning sites used for ORF Shuttling: Sgf1 ORF Mlu1 GCG ATC GC C ATG//NNN ACG CGT	E. coli Selection:	Chloramphenicol (34 ug/mL)
Cloning Scheme: Cloning sites used for ORF Shuttling: Sgf i ORF Miu i CCG ATC GCC ATG NNN ACG CGT EcoR i BamH i RBS Sgf ORF		The ORF insert of this clone is exactly the same as(RC211665).
Cloning sites used for ORF Shuttling: Sgf I ORF Mlu I GCG ATC GC C ATG // NNN ACG CGT <u>Kozak</u> <u>Consensus</u> <u>EcoR I BamH I RBS Sgf ORF</u>	<b>Restriction Sites:</b>	Sgfl-Mlul
Sgf i       ORF       Mlu i        GCG ATC GC C       ATG          Middle       ACG CGT          EcoR i       BamH i       RBS       Sgf i         ORF       ORF       ORF	Cloning Scheme:	
GCG ATC GCC       ATG // NNN ACG CGT		Cloning sites used for ORF Shuttling:
EcoR I BamH I RBS Sgf ORF		
		Consensus

\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM\_173598 2763 bp



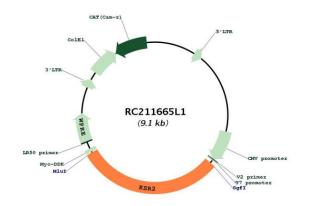
View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

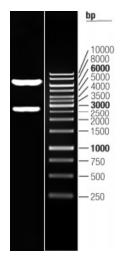
<b>ORÎGENE</b> KSR2 (I	NM_173598) Human Tagged Lenti ORF Clone – RC211665L1
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
RefSeq:	<u>NM 173598.4, NP 775869.3</u>
RefSeq Size:	17008 bp
RefSeq ORF:	2853 bp
Locus ID:	283455
UniProt ID:	<u>Q6VAB6</u>
Cytogenetics:	12q24.22-q24.23
Protein Families:	Druggable Genome, Protein Kinase
MW:	104.1 kDa
Gene 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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

# **Product images:**



Circular map for RC211665L1



Double digestion of RC211665L1 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US