

# Product datasheet for RC201983L2

# RAF1 (NM\_002880) Human Tagged Lenti ORF Clone

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	RAF1 (NM_002880) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	RAF1
Synonyms:	c-Raf; CMD1NN; CRAF; NS5; Raf-1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201983).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I          GCG ATC GC         ATG// NNÑ         ACG CGT



ACCN: ORF Size: NM\_002880

1944 bp



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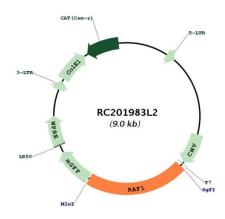
<b>ORIGENE</b> RAF1 (NM_002880) Human Tagged Lenti ORF Clone – RC201983L2	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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 Met	<ul> <li>chod: 1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. 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> </ul>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 002880.2</u>
RefSeq Size:	3291 bp
RefSeq ORF:	1947 bp
Locus ID:	5894
UniProt ID:	<u>P04049</u>
Cytogenetics:	3p25.2
Domains:	pkinase, TyrKc, DAG_PE-bind, S_TKc, RBD
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long- term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non- small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Vascular smooth muscle contraction, VEGF signaling pathway
MW:	73.1 kDa

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### **GRIGENE** RAF1 (NM\_002880) Human Tagged Lenti ORF Clone – RC201983L2

Gene Summary:This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase<br/>kinase kinase (MAP3K), which functions downstream of the Ras family of membrane<br/>associated GTPases to which it binds directly. Once activated, the cellular RAF1 protein can<br/>phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2, which in turn<br/>phosphorylate to activate the serine/threonine specific protein kinases, ERK1 and ERK2.<br/>Activated ERKs are pleiotropic effectors of cell physiology and play an important role in the<br/>control of gene expression involved in the cell division cycle, apoptosis, cell differentiation<br/>and cell migration. Mutations in this gene are associated with Noonan syndrome 5 and<br/>LEOPARD syndrome 2. [provided by RefSeq, Jul 2008]

# **Product images:**



Circular map for RC201983L2

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