

OriGene Technologies, Inc.

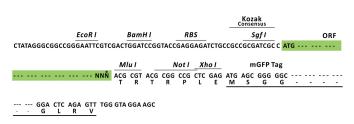
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Product datasheet for RC221671L4

GRF2 (RAPGEF1) (NM_005312) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRF2 (RAPGEF1) (NM_005312) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	GRF2
Synonyms:	C3G; GRF2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221671).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GCC ATG // NNN ACG CGT ACG CGT

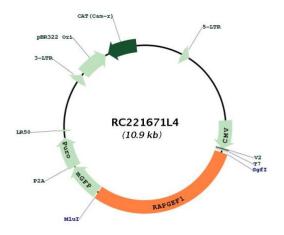


* The last codon before the Stop codon of the ORF.



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Plasmid Map:



ACCN:		NM_005312
ORF Size	e:	3231 bp
OTI Disc	claimer:	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 Ann	otation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Compor	nents:	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).
Reconst	titution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:		<u>NM 005312.2</u>
RefSeq	Size:	6121 bp
RefSeq	ORF:	3234 bp

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	GRF2 (RAPGEF1) (NM_005312) Human Tagged Lenti ORF Clone – RC221671L4
Locus ID:	2889
UniProt ID:	<u>Q13905</u>
Cytogenetics:	9q34.13
Domains:	RasGEFN, RasGEF
Protein Families	: Druggable Genome
Protein Pathway	rs: Focal adhesion, Insulin signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma
MW:	120.4 kDa
Gene Summary:	This gene encodes a human guanine nucleotide exchange factor. It transduces signals from CRK by binding the SH3 domain of CRK, and activating several members of the Ras family of GTPases. This signaling cascade that may be involved in apoptosis, integrin-mediated signal

determined. [provided by RefSeq, Jul 2008]

transduction, and cell transformation. Several alternatively spliced transcript variants of this

gene have been described, but the full-length nature of some variants has not been

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