

## Product datasheet for **RC222055L4V**

### **RAPGEF2 (NM\_014247) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	RAPGEF2 (NM_014247) Human Tagged ORF Clone Lentiviral Particle
Symbol:	RAPGEF2
Synonyms:	CNrasGEF; NRAPGEP; nRap GEP; PDZ-GEF1; PDZGEF1; RA-GEF; RA-GEF-1; RAGEF; Rap-GEP
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_014247
ORF Size:	4497 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222055).
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_014247.1</a> , <a href="#">NP_055062.1</a>
RefSeq Size:	6568 bp
RefSeq ORF:	4500 bp
Locus ID:	9693
UniProt ID:	<a href="#">Q9Y4G8</a>
Cytogenetics:	4q32.1
Domains:	RA, cNMP, RasGEFN, PDZ, RasGEF
Protein Pathways:	MAPK signaling pathway



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**MW:** 167.2 kDa

**Gene Summary:** Members of the RAS (see HRAS; MIM 190020) subfamily of GTPases function in signal transduction as GTP/GDP-regulated switches that cycle between inactive GDP- and active GTP-bound states. Guanine nucleotide exchange factors (GEFs), such as RAPGEF2, serve as RAS activators by promoting acquisition of GTP to maintain the active GTP-bound state and are the key link between cell surface receptors and RAS activation (Rebhun et al., 2000 [PubMed 10934204]).[supplied by OMIM, Mar 2008]