

Product datasheet for **SC327317**

RAGEF2 (RAPGEF6) (NM_001164387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAGEF2 (RAPGEF6) (NM_001164387) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAPGEF6
Synonyms:	KIA001LB; PDZ-GEF2; PDZGEF2; RA-GEF-2; RAGEF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327317 representing NM_001164387. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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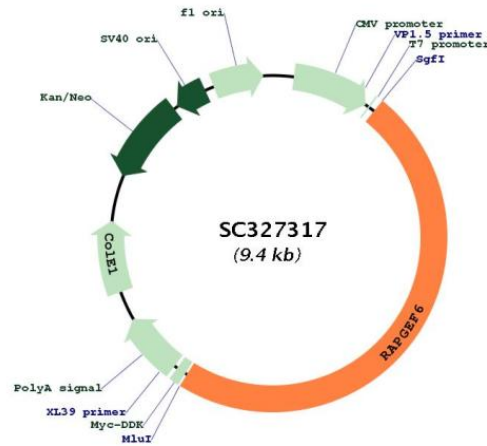


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Restriction Sites:

SgfI-MluI

Plasmid Map:


ACCN: NM_001164387

Insert Size: 4530 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_001164387.1](#)

RefSeq Size: 8095 bp

RefSeq ORF: 4530 bp

Locus ID: 51735

UniProt ID: [Q8TEU7](#)

Cytogenetics: 5q31.1

MW: 169.5 kDa

Gene Summary: Guanine nucleotide exchange factor (GEF) for Rap1A, Rap2A and M-Ras GTPases. Does not interact with cAMP.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) includes an alternate in-frame exon in the central coding region but lacks another alternate in-frame exon in the 3' coding region, compared to variant 1. The resulting protein (isoform 3) is shorter than isoform 1.