

Product datasheet for RC219097L1

OriGene Technologies, Inc.

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EFCAB4B (CRACR2A) (NM_032680) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: EFCAB4B (CRACR2A) (NM_032680) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: EFCAB4B
Synonyms: EFCAB4B
Mammalian Cell None

Selection:

Vector: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(RC219097).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_032680

ORF Size: 1185 bp





EFCAB4B (CRACR2A) (NM_032680) Human Tagged Lenti ORF Clone - RC219097L1

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. More info

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: 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: <u>NM 032680.2</u>

 RefSeq Size:
 2204 bp

 RefSeq ORF:
 1188 bp

 Locus ID:
 84766

 UniProt ID:
 Q9BSW2

 Cytogenetics:
 12p13.32

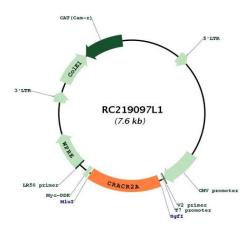
MW: 45.4 kDa

Gene Summary: Ca(2+)-binding protein that plays a key role in store-operated Ca(2+) entry (SOCE) in T-cells by

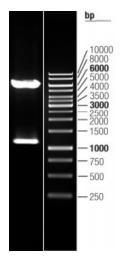
regulating CRAC channel activation. Acts as a cytoplasmic calcium-sensor that facilitates the clustering of ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca(2+) concentration. It thereby regulates CRAC channel activation, including translocation and clustering of ORAI1 and STIM1. Upon increase of cytoplasmic Ca(2+) resulting from opening of CRAC channels, dissociates from ORAI1 and STIM1, thereby destabilizing the ORAI1-STIM1 complex.[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for RC219097L1



Double digestion of RC219097L1 using Sgfl and Mlul $\,$