

Product datasheet for RC203407L4

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Artemis (DCLRE1C) (NM_022487) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Artemis (DCLRE1C) (NM 022487) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: Artemis

Synonyms: A-SCID; DCLREC1C; RS-SCID; SCIDA; SNM1C

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC203407).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_022487

ORF Size: 1731 bp





Artemis (DCLRE1C) (NM_022487) Human Tagged Lenti ORF Clone - RC203407L4

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 022487.2</u>

 RefSeq Size:
 6242 bp

 RefSeq ORF:
 1734 bp

 Locus ID:
 64421

 UniProt ID:
 Q96SD1

Cytogenetics: 10p13

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Non-homologous end-joining, Primary immunodeficiency

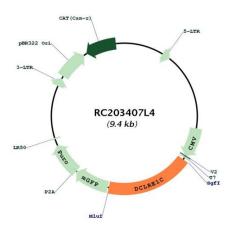
MW: 65.3 kDa

Gene Summary: This gene encodes a nuclear protein that is involved in V(D)J recombination and DNA repair.

The encoded protein has single-strand-specific 5'-3' exonuclease activity; it also exhibits endonuclease activity on 5' and 3' overhangs and hairpins. The protein also functions in the regulation of the cell cycle in response to DNA damage. Mutations in this gene can cause Athabascan-type severe combined immunodeficiency (SCIDA) and Omenn syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]



Product images:



Circular map for RC203407L4