

## Product datasheet for **SC336831**

### Artemis (DCLRE1C) (NM\_001289079) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Artemis (DCLRE1C) (NM_001289079) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCLRE1C
Synonyms:	A-SCID; DCLREC1C; RS-SCID; SCIDA; SNM1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

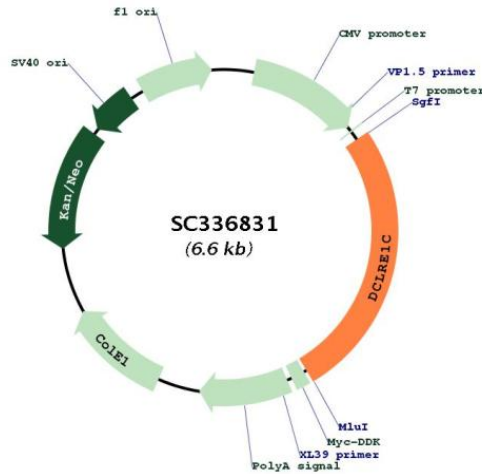


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Fully Sequenced ORF: >SC336831 representing NM\_001289079.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTTTATTTTCAGGGCAATAATGGAAGTGCCTGTACACAGGAGACTTCAGATTGGCGCAAGGAGAA
GCTGCTAGAATGGAGCTTCTGCACTCCGGGGCAGAGTCAAAGACATCCAAAGTGTATTTGGATACT
ACGTTCTGTGATCCAAGATTTTACCAAATTCGAAGTCGGGAGGAGTGTAAAGTGGAGTCTTAGAGCTG
GTCCGAAGCTGGATCACTCGGAGCCGTACCATGTTGTGTGGCTGAACTGCAAAGCGCTTATGGCTAT
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AGGAACATGCCTGAGATCCTTCATCTCACACAGACCCGAACACTCAGATCCATGCATGCCGCAT
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GTGAGGACTGGAGAGAGTTCATACAGAGCTTGTCTTTCTTTCACTCCTCTACAGTGAATTAAGAT
TTCTTGAGCTACCTCTGTCTGTGAACGCATATCCAAATGTCATTCCAGTTGGCACAACATATGGATAAA
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AAACTGAAGAGAGCTAGAACAGTTCACCGAGACTCAGAGGAGGAAGATGACTATCTCTTTGATGATCCT
CTGCCAATACCTTAAAGGCACAAAGTTCATACCCGAAAACCTTTTACCCTGAGGATTTTCAATGACT
GCAGTATCAGAAAAGCAGCCTGAAAACTGAGACAAAACCCAGGATGCTGCAGAGCAGAGTGTATGCAG
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CCAGCTTCACTGCAAGGAGATCTGGGCTCTGTACTTACCTGCAAAGGCTGATGGGGATGTACCCAG
TGGGAAGTATTCTTTAAAAGAAATGATGAAATCACAGATGAGAGTTTGGAAAACCTCCCTCCCTCACA
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ACAATCAAAGAGAATATCTCTGCCTCTCTCATGGAACAAAATGTAATTTGCCCAAAGGATACTTACTCT
GATTTGAAAAGCAGAGATAAAGATGTGACAATAGTTTCTAGTACTGGAGAACCAACTACTCTAAGCAGT
GAGACACATATACCCGAGGAAAAAGTTTGCTAAATCTTAGCACAAATGCAGATCCAGAGCTCTTCT
GATTTTGAAGTCCCTCAACTCCAGAAGCTGAGTTACCTAAACGAGAGCATTACAAATTTATATGAG
AAGCTGGCAACTGGTGAAGTATAGCAGTCAAAAAAGAAAATGCTCACTCTTAGATACC TAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001289079

**Insert Size:** 1719 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).

**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\\_001289079.1](#)

**RefSeq Size:** 6751 bp

**RefSeq ORF:** 1719 bp

**Locus ID:** 64421

**UniProt ID:** [Q96SD1](#)

**Cytogenetics:** 10p13

**Protein Families:** Druggable Genome

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

**MW:** 64.7 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 Athabaskan-type severe combined immunodeficiency (SCIDA) and Omenn syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Transcript Variant: This variant (h, also called V6) contains two alternate exons in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant a. It encodes isoform c, which has a shorter N-terminus than isoform a. Variants c, d, f, and h encode the same isoform (c). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.