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Product datasheet for SC336853

Artemis (DCLRE1C) (NM_001289076) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Artemis (DCLRE1C) (NM_001289076) Human Untagged Clone

Tag: Tag Free

Symbol: DCLRE1C

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

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

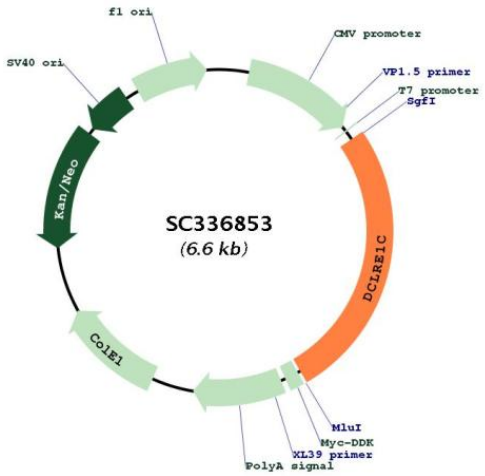
>SC336853 representing NM_001289076.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAAGCATCAGGAGAGGTTTTTATTTCAGGGCAATAATGGAACTGTCCTGTACACAGGAGACTTCAGA
TTGGCGCAAGGAGAAGCTGCTAGAATGGAGCTTCTGCACTCCGGGGGCAGAGTCAAAGACATCCAAAGT
GTATATTTGGATACTACGTTCTGTGATCCAAGATTTTACCAAATTCCAAGTCGGGAGGAGTGTTTAAGT
GGAGTCTTAGAGCTGGTCCGAAGCTGGATCACTCGGAGCCCGTACCATGTTGTGTGGCTGAACTGCAAA
GCGGCTTATGGCTATGAATATCTGTTCACCAACCTTAGTGAAGAATTAGGAGTCCAGGTTCATGTGAAT
AAGCTAGACATGTTTAGGAACATGCCTGAGATCCTTCATCATCTCACAACAGACCGCAACACTCAGATC
CATGCATGCCGGCATCCCAAGGCAGAGGAATATTTTCAGTGGAGCAAATTACCCTGTGGAATTACTTCC
AGAAATAGAATTCCACTCCACATAATCAGCATTAAGCCATCCACCATGTGGTTTGGAGAAAGGAGCAGA
AAAACAAATGTAATTGTGAGGACTGGAGAGAGTTCATACAGAGCTTGTTTTTCTTTTCACTCCTCCTAC
AGTGAGATTAAAGATTTCTTGAGCTACCTCTGTCCTGTGAACGCATATCCAAATGTCATTCCAGTTGGC
ACAACTATGGATAAAGTTGTCGAAATCTTAAAGCCTTTATGCCGGTCTTCCCAAAGTACGGAGCCAAAG
TATAAACCACTGGGAAAACTGAAGAGAGCTAGAACAGTTCACCGAGACTCAGAGGAGGAAGATGACTAT
CTCTTTGATGATCCTCTGCCAATACCTTTAAGGCACAAAGTTCCATACCCGGAAACTTTTCACCCTGAG
GTATTTTCAATGACTGCAGTATCAGAAAAGCAGCCTGAAAAACTGAGACAAACCCCAGGATGCTGCAGA
GCAGAGTGTATGCAGAGCTCTCGTTTCACAAACTTTGTAGATTGTGAAGAATCCAACAGTGAAAGTGAA
GAAGAAGTAGGAATCCCAGCTTCACTGCAAGGAGATCTGGGCTCTGTACTTCACCTGCAAAAGGCTGAT
GGGGATGTACCCCAGTGGGAAGTATTCTTTAAAAGAAATGATGAAATCACAGATGAGAGTTTGGAAAAC
TTCCCTTCCTCCACAGTGGCAGGGGGATCTCAGTCACCAAAGCTTTTCAGTGACTCTGATGGAGAATCA
ACTCACATCTCCTCCCAGAATTCTTCCCAGTCAACACACATAACAGAACAAGGAAGTCAAGGCTGGGAC
AGCCAATCTGATACTGTTTTGTTATCTTCCCAAGAGAGAAACAGTGGGGATATTACTTCCTTGGACAAA
GCTGACTACAGACCAACAATCAAAGAGAATATTCCTGCCTCTCTCATGGAACAAAATGTAATTTGCCCA
AAGGATACTTACTCTGATTTGAAAAGCAGAGATAAAGATGTGACAATAGTTCCTAGTACTGGAGAACCA
ACTACTCTAAGCAGTGAGACACATATACCCGAGGAAAAAAGTTTGCTAAATCTTAGCACAAATGCAGAT
TCCCAGAGCTCTTCTGATTTTGAAGTTCCCTCAACTCCAGAAGCTGAGTTACCTAAACGAGAGCATTTA
CAATATTTATATGAGAAGCTGGCAACTGGTGAGAGTATAGCAGTCAAAAAAAGAAAATGCTCACTCTTA
GATACCTAA

Restriction Sites: SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001289076
Insert Size:	1734 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_001289076.1
RefSeq Size:	6157 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] Transcript Variant: This variant (e) lacks two exons in the 5' coding region and intiates translation at an alternate downstream start codon, compared to variant a. It encodes isoform b, which has a shorter and distinct N-terminus compared to variant a. Variants b, e, and g encode the same isoform (b). 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.