

Product datasheet for **SC302773**

Artemis (DCLRE1C) (NM_001033857) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Artemis (DCLRE1C) (NM_001033857) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCLRE1C
Synonyms:	A-SCID; DCLREC1C; RS-SCID; SCIDA; SNM1C
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001033857, the custom clone sequence may differ by one or more nucleotides

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ATGTTTTTATTTTCAGGGCAATAATGGAAGTGCCTGTACACAGGAGACTTCAGATTGGCG
CAAGGAGAAGCTGCTAGAATGGAGCTTCTGCACTCCGGGGGAGAGTCAAAGACATCCAA
AGTGTATATTTGGATACTACGTTCTGTGATCCAAGATTTTACCAAATCCAAAGTCGGGAG
GAGTGTAAAGTGGAGTCTTAGAGCTGGTCCGAAGCTGGATCACTCGGAGCCCGTACCAT
GTTGTGTGGCTGAACTGCAAAGCGGCTTATGGCTATGAATATCTGTTACCAACCTTAGT
GAAGAATTAGGAGTCCAGTTCATGTGAATAAGCTAGACATGTTTAGGAACATGCCTGAG
ATCCTTCATCATCTCACAAACAGACCGCAACACTCAGATCCATGCATGCCGGCATCCCAAG
GCAGAGGAATATTTTCAGTGGAGCAAATACCCTGTGGAATTACTCCAGAAATAGAATT
CCACTCCACATAATCAGCATTAAGCCATCCACCATGTGGTTTGGAGAAAGGAGCAGAAAA
ACAAATGTAATTGTGAGGACTGGAGAGAGTTCATACAGAGCTTGTTTTTCTTTTCACTCC
TCCTACAGTGAGATTAAGATTTCTTGAGCTACCTCTGCTGTGAAACGCATATCCAAAT
GTCATTCAGTTGGCACAACATATGGATAAAGTTGTGCGAAATCTTAAAGCCTTTATGCCGG
TCTTCCCAAAGTACGGAGCCAAAGTATAAACCCTGGGAAAAGTGAAGAGAGCTAGAACA
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TTAAGGCACAAAGTTCCATACCCGAAAATTTTACCCTGAGGATTTTCAATGACTGCA
GTATCAGAAAAGCAGCCTGAAAAACTGAGACAAAACCCAGGATGCTGCAGAGCAGAGTGT
ATGCAGAGCTCTCGTTTCAAAAATTTGTAGATTGTGAAGAATCCAACAGTGAAAGTGAA
GAAGAAGTAGGAATCCCAGCTTCACTGCAAGGAGATCTGGGCTCTGTAATCACCTGCAA
AAGGCTGATGGGGATGTACCCAGTGGGAAGTATTCTTTAAAAGAAATGATGAAATCACA
GATGAGAGTTTGGAAAATTTCCCTTCTCCACAGTGGCAGGGGGATCTCAGTACCAAAG
CTTTTTCAGTACTCTGATGGAGAATCAACTCACATCTCCTCCAGAAATTTTCCAGTCA
ACACACATAACAGAACAAGGAAGTCAAGGCTGGGACAGCCAATCTGATACTGTTTTGTTA
TCTTCCCAAGAGAGAAAAGTGGGGATATTACTTCTTGGACAAAAGCTGACTACAGACCA
ACAATCAAAGAGAATATTCTGCCTCTCTCATGGAACAAAATGTAATTTGCCAAAGGAT
ACTTACTCTGATTTGAAAAGCAGAGATAAAGATGTGACAATAGTTCCTAGTACTGGAGAA
CCAATACTCTAAGCAGTGGACACATATACCCGAGGAAAAAAGTTTGCTAAATCTTAGC
ACAAATGCAGATTCCAGAGCTCTTCTGATTTTGAAGTTCCCTCAACTCCAGAAGCTGAG
TTACCTAAACGAGAGCATTTACAATATTTATATGAGAAGCTGGCAACTGGTGAGAGTATA
GCAGTCAAAAAAGAAAATGCTCACTCTTAGATACCTAA

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Restriction Sites:	Please inquire
ACCN:	NM_001033857
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:	<ol style="list-style-type: none"> 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_001033857.1</u> , <u>NP_001029029.1</u>
RefSeq Size:	3786 bp
RefSeq ORF:	1719 bp
Locus ID:	64421
UniProt ID:	<u>Q96SD1</u>
Cytogenetics:	10p13
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Non-homologous end-joining, Primary immunodeficiency

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 (d, also called V1) contains an alternate exon in the 5' UTR 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.