

Product datasheet for **RG214185**

Artemis (DCLRE1C) (NM_001033855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Artemis (DCLRE1C) (NM_001033855) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Artemis
Synonyms:	A-SCID; DCLREC1C; RS-SCID; SCIDA; SNM1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG214185 representing NM_001033855
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTCCTTTTCGAGGGGCAGATGGCCGAGTATCCAACATCTCCATAGACCGCTTCGATAGGGAGAACC
TGAGGGCCCGCGCTACTTCCTGTCCCAGTCCACAAAGATCACATGAAAGGATTAAGAGCCCTACCTT
GAAAAGAAGTTGGAGTGCAGCTTGAAGGTTTATCTATACTGTTACCTGTGACTAAGGAGTTGTTGTTA
ACGAGCCCGAAATACAGATTTTGAAGAACAATATATCTATTGAAATCGAGACTCCTACCCAGATAT
CTTTAGTGGATGAAGCATCAGGAGAGAAGGAGAGATTGTTGTGACTCTTACCAGCTGGTCACTGTCC
GGGATCAGTTATGTTTTATTTTCAGGGCAATAATGGAAGTGTCTGTACACAGGAGACTTCAGATTGGCC
CAAGGAGAAGCTGCTAGAATGGAGCTTCTGCACCTCCGGGGCAGAGTCAAAGACATCCAAAGTGTATATT
TGGATACTACGTTCTGTGATCCAAGATTTACCAAATTCAGTCCGGGAGGAGTGTAAAGTGGAGTCTT
AGAGCTGGTCCGAAGCTGGATCACTCGGAGCCCGTACCATGTTGTGTGGCTGAACTGCAAAGCGGCTTAT
GGCTATGAATATCTGTTACCAACCTTAGTGAAGAATTAGGAGTCCAGGTTTCATGTGAATAAGCTAGACA
TGTTTAGGAACATGCCTGAGATCCTTCATCATCTCACAACAGACCCGAACACTCAGATCCATGCATGCCG
GCATCCCAAGGCAGAGGAATATTTTCAGTGGAGCAAATACCCTGTGGAATTACTTCAGAAATAGAATT
CCACTCCACATAATCAGCATTAAAGCCATCCACCATGTGGTTTGGAGAAAGGAGCAGAAAAACAAATGTAA
TTGTGAGGACTGGAGAGAGTTTACACAGAGCTTGTTTTTCTTTTCACTCCTCCTACAGTGAGATTAAGA
TTTCTTGAGCTACCTCTGTCTGTGAACGCATATCCAAATGTATTCCAGTTGGCACAACATAGGATAAA
GTTGTGCGAAATCTTAAAGCCTTTATGCCGGTCTTCCCAAAGTACGGAGCCAAAGTATAAACCAGTGGGAA
AACTGAAGAGAGCTAGAACAGTTCACCGAGACTCAGAGGAGGAAGATGACTATCTCTTTGATGATCCTCT
GCCAATACCTTTAAGGCACAAAGTCCATACCCGAAACTTTTACCCTGAGGTATTTTCAATGACTGCA
GTATCAGAAAAGCAGCCTGAAAACTGAGACAAACCCAGGATGCTGCAGAGCAGAGTGTATGCAGAGCT
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TTCAGTCAAGGAGATCTGGGCTCTGTACTTACCTGCAAAGGCTGATGGGGATGTACCCAGTGGGAA
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GGGATCTCAGTACCAAAGCTTTTCAGTACTCTGATGGAGAATCAACTCACATCTCCTCCAGAATTC
TTCCAGTCAACACACATAACAGAACAAGGAAGTCAAGGCTGGGACAGCCAATCTGATACTGTTTTGTTA
TCTTCCAAAGAGAGAAACAGTGGGATATTACTTCTTGGACAAAGCTGACTACAGACCAACAATCAAAG
AGAATATTCTGCCTCTCTCATGGAACAAAATGTAATTTGCCCAAAGGATACTTACTCTGATTTGAAAAG
CAGAGATAAAGATGTGACAATAGTTCCTAGTACTGGAGAACCAACTACTTAAGCAGTGAGACACATATA
CCCAGGAAAAAGTTTGCTAAATCTTAGCACAAATGCAGATTCCAGAGCTCTTCTGATTTTGAAGTTC
CCTCAACTCCAGAAGCTGAGTTACCTAAACGAGAGCATTACAATATTTATGAGAAGCTGGCAACTGG
TGAGAGTATAGCAGTCAAAAAAGAAAATGCTCACTCTTAGATACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214185 representing NM_001033855
 Red=Cloning site Green=Tags(s)

MSSFEGQMAEYPTISIDRFDRENLRARAYFLSHCHKDHMKGLRAPTLKRRLECSLKVYLYCSPVTKELL
 TSPKYRFWKKRIISIEIETPTQISLVDEASGEKEEIVVTLIPAGHCPGSMFLFQGNNGTVLYTGFRLA
 QGEAARMELLHSGGRVKDIQSVYLDTTFCDFRYQIPSRREECLSGVLELVRSWITRSPYHVWLNCKAAY
 GYEYLFNTLSEELGVQVHVNKLDMFRNMP EILHHLTTDRNTQIHACRHPKAE EYFQWSKLP CGITSRNRI
 PLHIISIKPSTMWFGERSRKTNIIVRTGESSYRACFSFHSSYSEIKDFLSYLCPVNAYPNVIPVGT TMDK
 VVEILKPLCRSSQSTEPKYKPLGKLKRARTVHRDSEEDDYLFDDPLPIPLRHKVPYPETFFHPEVFSMTA
 VSEKQPEKLRQTPGCCRAECMQSSRFTNFVDCEESNSESEEEVGPASLQGDGSLVHLKADGDVDPQWE
 VFFKRNDEITDESLENFSPSTVAGGSQSPKLFSDSDGESTHISSQNSSQSTHITEQGSQGWSQSDTVLL
 SSQERNSGDITSLDKADYRPTIKENIPASLMEQNVICPKDYSDLKSRDKDVTIVPSTGEPTTLSSETHI
 PEEKSLNLSTNADSQSSDFEVPSTPEAELPKREHLQYLYEKLATGESIAVKKRKCSSLDT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

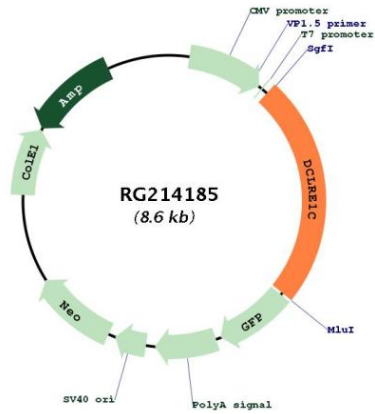


ACCN: NM_001033855

ORF Size: 2076 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	NM_001033855.3
RefSeq Size:	3701 bp
RefSeq ORF:	2079 bp
Locus ID:	64421
UniProt ID:	Q96SD1
Cytogenetics:	10p13
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Non-homologous end-joining, Primary immunodeficiency
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG214185