

Product datasheet for **MC219570**

Dclre1c (NM_175683) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_175683) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dclre1c
Synonyms:	9930121L06Rik; A; AI661365; Art; Snm11
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219570 representing NM_175683
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTCCTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGACAGGGAGAACC
 TGAAGCCCGTGCTACTTCTTTTCGCACTGTCACAAGGATCACATGAAAGGATTAAGGGCTCCTTCCTT
 GAAAAGAAGGCTGGAATGCAGCTTGAAGGTCTTCTGTACTGTTCTCCAGTCACTAAGGAGCTGTTGTTA
 ACTAGCCCAAAGTACAGATTCTGGGAAAACAGAATTATAACAATTGAAATTGAAACTCCTACGCAGATAT
 CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAGGTTGTTGTACTCTTACCAGCTGGTCACTGCC
 AGGATCAGTTATGTTTTATTTTCAGGGCAGTAATGGAAGTGTCTTATACACAGGAGACTTCAGACTGGCA
 AAAGGAGAAGCTTCCAGAATGGAGCTTCTGCCTCTGGAGGCAGAGTAAAAGACATCCAAAGTGTGTATT
 TAGACACGACTTCTGTGACCCAAGTTTTATCAGATCCCAAGTCGTGAGCAGTGTGAGGGGCATTTT
 GGAGCTGGTTCGGAGCTGGTCACTAGGAGTCCGCACCACGTGCTGTGGCTGAACTGTAAGCAGCTTAT
 GGCACGAGTATTTATTCACCAACCTAAGCGAGGAGCTGGGAGTTCAGGTTTCATGTGGACAAGCTGGACA
 TGTTTTAAAAACATGCCTGATATCCTGCACCATCTCACAACGGACAGAAACACCCAGATCCACGCCTGCCG
 CCACCCAAAGGCAGAAGAGTGTTCAGTGAATAAACTACCCTGTGGTATAACTTCCAAAAACAAACT
 GCACTCCACACAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCAAGTGA
 TCGTTAGGACTGGAGAGAGCTCATAAGAGCTTGTCTTCTTTTCACTCCTCCTTCAGTGAGATTAAGA
 TTTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAATGTATCCAGTTGGCCTCACTGTGGATAAG
 GTCATGGACGTTTTAAAGCCTCTGTGCCGTCTCCCAAAGTGTGAGCCAAAGTACAAACCGCTTGAA
 AATTGAAGAGAGCCAGAACCAATCCATCTTGACTCGGAGGAAGACGATGATCTCTTTGATGACCTTACC
 GACACCTTTAAGGCACAAAGTTCGTACCAGCTAACTTTCAGCCTGAGCTGTTTTCAATGAAGGCACTG
 CCACTAGACCAGCCTGAACTGAGACAAAGCCAGGAGGCTGCAAAGCAGAGAGTGTGGAGCCCTTCTT
 TGGCTAACTTCATAGACTGTGAAGAATCCAACAGCGACAGTGGAGAAGAGCTAGAAAACCCACCACCTC
 ACTGCAGGGAGTCTGGGCCCTCGACTCGTCCAGCAAAATGCTGATCCGGATGTGGACATACCACAG
 TGGGAAGTCTTCTTCAAAGAAGAGATGAAATCACAGTGGACACCATGATTAGAATCCAGACCCAGAA
 AGATGAAAGGCTGTGGTCAATGGAGTCTGAAGATGCTTCTCAGAACCTGGAAATACAGGAAGAGAAACA
 TATATTTGAGAACAGGGCTGGAAGATGGCTGGCAGGTAAAGGGTAGCTGTGGTCTTTGGAGGGCCAG
 AGTTCACTCCCAACATTCAGCTAGCCACCTCCCTAGCCTCAAATCCAGCTTCTGGCCTCCATGGCACC
 TGCATTCATGCGCACACAAATCTTACCTTTAAAAAAAACCAAACTTTACTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_175683
- Insert Size:** 1812 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_175683.4](#), [NP_783614.1](#)

RefSeq Size: 4082 bp

RefSeq ORF: 1812 bp

Locus ID: 227525

UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

Gene Summary: This gene encodes a member of the SNM1 family of nucleases and is involved in V(D)J recombination and DNA repair. This 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. Homozygous knockout mice for this gene exhibit severe combined immunodeficiency with sensitivity to ionizing radiation. Mutations in this gene in humans can cause Athabaskan-type severe combined immunodeficiency (SCIDA) and Omenn syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2014]

Transcript Variant: This variant (2) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus compared to isoform 1.