

Product datasheet for **MC227874**

Dclre1c (NM_001302674) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_001302674) 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: >MC227874 representing NM_001302674
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCTTCGGGTGAGGAGACTTCAGACTGGCAAAGGAGAAGCTTCCAGAATGGAGCTTCTGCACCTCT
 GGAGAGTAAAAGACATCCAAAGTGTGATTTAGACACGACTTTCTGTGACCCAAGGTTTTATCAGATCCC
 AAGTCGTGAGCAGTGTGGAGGGCATTGGAGCTGGTTCGGAGCTGGGTCAGTACGAGTCCGACCCAC
 GTCGTGTGGCTGAACTGTAAGCAGCTTATGGCTACGAGTATTTATTCACCAACCTAAGCGAGGAGCTGG
 GAGTTCAGGTTTCATGTGGACAAGCTGGACATGTTAAAAACATGCCTGATATCCTGCACCATCTCACAAC
 GGACAGAAACACCCAGATCCACGCTGCCGCCACCCAAAGGCAGAAGAGTGTTCAGTGGAAATAAACTA
 CCCTGTGGTATAACTTCCAAAACAAAAGTGCCTCCACACAATCAGCATCAAGCCATCTACCATGTGGT
 TTGGAGAGAGGACCAGAAAAACCAACGTGATCGTTAGGACTGGAGAGAGCTCATAACAGAGCTTGCTTCTC
 TTTTCACTCCTCCTTCAAGGATTTAAAGATTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAAT
 GTCATCCAGTTGGCCTCACTGTGGATAAGGTCATGGAGCTTTAAAGCCTCTGTGCCGGTCTCCCAAA
 GTGTTGAGCCAAAGTACAAACCGCTTGGAAAATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGAGGA
 AGACGATGATCTTTGATGACCCTCTACCGACACCTTTAAGGCACAAAGTCCGTACCAGCTAACTCTT
 CAGCCTGAGCTGTTTTCAATGAAGGCACTGCCACTAGACCAGCCTGAACTGAGACAAAGCCAGGAGGCT
 GCAAAGCAGAGAGTGTGTGGAGCCCTTCTTTGGCTAACTTCATAGACTGTGAAGAATCCAACAGCGACAG
 TGGAGAAGAGCTAGAAACCCACCCCTCACTGCAGGGAGGTCTGGGCCCTCGACACTCGTCCAGCAA
 AATGCTGATCCGGATGTGGACATACCACAGTGGGAAGTCTTCTTAAAAGAAGAGATGAAATCACAGTGG
 ACACCATGATTAGAAGTCCAGACCCAGAAAGATGAAAGGCTGTGGTCAATGGAGTCTGAAGATGCTTCT
 CCAGAACCTGGAATACAGGAAGAGAAACATATTTTGAAGAACAGGGGCTGGAAGATGGCTGGGCAGGTA
 AAGGGTAGCTGTGGTCTTTTGGAGGGCCAGAGTTCACCTCCAACATTCAAGCTAGCCACCTCCCTAGCCT
 CAAACTCCAGTCTGGCCTCCATGGCCTGCATTACATGCGCACACAAAATCTTTACCTTTAAAAA
 AAAAACCAAACTTTACTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001302674
- Insert Size:** 1422 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001302674.1](#), [NP_001289603.1](#)

RefSeq Size: 3896 bp

RefSeq ORF: 1422 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 (4) differs at both the 5' and 3' ends, compared to variant 1. These differences cause translation initiation at an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter and has distinct N- and C-termini compared to isoform 1.