**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC228345

## Dclre1c (NM_001302684) Mouse Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Dclre1c (NM_001302684) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Dclre1c |
| **Synonyms:** | 9930121L06Rik; A; AI661365; Art; Snm1l |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Cell Selection:** | Neomycin |



View online »

**Fully Sequenced ORF:**

>MC228345 representing NM_001302684
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTCCTTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGACAGGGAGAACC
TGAAAGCCCGTGCCTACTTCCTTTCGCACTGTCACAAGGATCACATGAAAGGATTAAGGGCTCCTTCCTT
GAAAAGAAGGCTGGAATGCAGCTTGAAGGTCTTCCTGTACTGTTCTCCAGTCACTAAGGAGCTGTTGTTA
ACTAGCCCAAAGTACAGATTCTGGGAAAACAGAATTATAACAATTGAAATTGAAACTCCTACGCAGATAT
CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAAGAGGTTGTTGTGACTCTCTTACCAGCTGGTCACTGCCC
AGGATCAGTTATGTTTTTATTTCAGGGCAGTAATGGAACTGTCTTATACACAGGAGACTTCAGACTGGCA
AAAGGAGAAGCTTCCAGAATGGAGCTTCTGCACTCTGGAGGCAGAGTAAAAGACATCCAAAGTGTGTATT
TAGACACGACTTTCTGTGACCCAAGGTTTTATCAGATCCCAAGTCGTGAGCAGTGTTTGAGGGGCATTTT
GGAGCTGGTTCGGAGCTGGGTCACTAGGAGTCCGCACCACGTCGTGTGGCTGAACTGTAAAGCAGCTTAT
GGCTACGAGTATTTATTCACCAACCTAAGCGAGGAGCTGGGAGTTCAGGTTCATGTGGACAAGCTGGACA
TGTTTAAAAACATGCCTGATATCCTGCACCATCTCACAACGGACAGAAACACCCAGATCCACGCCTGCCG
CCACCCAAAGGCAGAAGAGTGTTTTCAGTGGAATAAACTACCCTGTGGTATAACTTCCCAAAACAAAACT
GCACTCCACACAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCAACGTGA
TCGTTAGGACTGGAGAGAGCTCATACAGAGCTTGCTTCTCTTTTCACTCCTCCTTCAGTGAGATTAAAGA
TTTTTTGAGCTACATCTGCCCAGTGAATGTGTATCCAAATGTCATCCCAGTTGGCCTCACTGTGGATAAG
GTCATGGACGTTTTAAAGCCTCTGTGCCGGTCTCCCCAAAGTGTTGAGCCAAAGTACAAACCGCTTGGAA
AATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGAGGAAGACGATGATCTCTTTGATGACCCTCTACC
GACACCTTTAAGGCACAAAGTTCCGTACCAGCTAACTCTTCAGCCTGAGCTGTTTTCAATGAAGGCACTG
CCACTAGACCAGCCTGAACTGAGACAAAGCCCAGGAGGCTGCAAAGCAGAGAGTGTGTGGAGCCCTTCTT
TGGCTAACTTCATAGACTGTGAAGAATCCAACAGCGACAGTGGAGAAGAGCTAGAAACCCCACCACCCTC
ACTGCAGGGAGGTCTGGGCCCCTCGACACTCGTCCAGCAAAATGCTGATCCGGATGTGGACATACCACAG
TGGGAAGTCTTCTTCAAAAGAAGAGATGAAATCACAGAACTAGACACCCTGAGTGGCAGGAAGTCTCCAC
CTGAGAAGACATTGCTAAGCAGCACACGTGCAGACTCACAGAGCTCCTCTGACTTTGAAATCCCCTCAAC
TCCCGAAGCGGAGCTTCCTACGCCAGAGCATTTGCAGTGCTTATACAGGAAACTGGCAACAGGTCAAAGT
ATAGTTGTCGAAAAAAGAAAATGTTCACTTTTAGATAGTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_001302684

**Insert Size:** 1722 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001302684.1, NP_001289613.1 |
| **RefSeq Size:** | 3363 bp |
| **RefSeq ORF:** | 1722 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 Athabascan-type severe combined immunodeficiency (SCIDA) and Omenn syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2014]<br>Transcript Variant: This variant (5) lacks an alternate in-frame segment in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 5), compared to isoform 1. |