

Product datasheet for **MR221669**

Dclre1c (NM_175683) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR221669 representing NM_175683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCTCCTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGACAGGGAGAACC
 TGAAGCCCGTGCCTACTTCCTTCGCACTGTCAAGGATCACATGAAAGGATTAAGGGCTCCTTCCTT
 GAAAAGAAGGCTGGAATGCAGCTTGAAGGTCTTCTGTACTGTTCTCCAGTCACTAAGGAGCTGTTGTTA
 ACTAGCCCAAAGTACAGATTCTGGGAAAACAGAATTATAACAATTGAAATTGAAACTCCTACGCAGATAT
 CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAGGTTGTTGTGACTCTTACCAGCTGGTCACTGCC
 AGGATCAGTTATGTTTTATTTCAAGGCAGTAATGGAAGTGTCTTATACACAGGAGACTTCAGACTGGCA
 AAAGGAGAAGCTCCAGAATGGAGCTTCTGCCTCTGGAGGCAGAGTAAAAGACATCCAAAGTGTGTATT
 TAGACACGACTTCTGTGACCCAAGTTTTATCAGATCCCAAGTCGTGAGCAGTGTGTTGAGGGCATT
 GGAGCTGGTTCGGAGCTGGTCACTAGGAGTCCGCACCACGTGCTGTGGTGAAGTGTAAAGCAGCTTAT
 GGCTACGAGTATTTATCCAACTAAGCGAGGAGCTGGGAGTTCAGGTTTCATGTGGACAAGCTGGACA
 TGTTTAAAAACATGCCTGATATCCTGCACCATCTCACAACGGACAGAAACACCCAGATCCACGCCTGCCG
 CCACCCAAAGGCAGAAGAGTGTTCAGTGAATAAACTACCCTGTGGTATAACTTCCAAAAACAACT
 GCACTCCACACAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCAAGTGA
 TCGTTAGGACTGGAGAGAGCTCATAAGAGCTTCTCTCTTTCACTCCTCCTCAGTGAGATTAAGA
 TTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAATGTATCCAGTTGGCCTCACTGTGGATAAG
 GTCATGGACGTTTTAAAGCCTCTGTGCCGTCTCCCAAAGTGTGAGCCAAAGTACAAACCGCTTGGAA
 AATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGAGGAGACGATGATCTCTTTGATGACCTTACC
 GACACCTTTAAGGCACAAGTTCGTACCACTAACTCTCAGCCTGAGCTGTTTTCAATGAAGGCACTG
 CCACTAGACCAGCCTGAACTGAGACAAAGCCAGGAGGCTGCAAAGCAGAGAGTGTGGAGCCCTTCTT
 TGGCTAACTTCATAGACTGTGAAGAATCCAACAGCGACAGTGGAGAAGAGCTAGAAAACCCACCACCTC
 ACTGCAGGGAGTCTGGGCCCTCGACTCGTCCAGCAAAATGCTGATCCGGATGTGGACATACCACAG
 TGGGAAGTCTTCTCAAAGAAGAGATGAAATCACAGTGGACACCATGATTAGAATCCAGACCCAGAA
 AGATGAAAGGCTGTGGTCAATGGAGTCTGAAGATGCTTCTCAGAACCTGGAAATACAGGAAGAGAAACA
 TATATTTGAGAACAGGGCTGGAAGATGGCTGGCAGGTAAAGGGTAGCTGTGGTCTTTGGAGGGCCAG
 AGTTCACTCCCAACATCAAGCTAGCCACCTCCCTAGCCTCAAACCTCCAGCTTCTGGCCTCCATGGCACC
 TGCATTACATGGCAGACACAAATCTTACCTTAAAAAACCACCAAACTTTACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221669 representing NM_175683
 Red=Cloning site Green=Tags(s)

MSSFQQQMAEYPTISIDRFDRENLKARAYFLSHCHKDHMKGLRAPSLKRRLECSLKVFLYCSPVTKELL
 TSPKYRFWENRIITIEIETPTQISLVDEASGEKEEVVVTLLPAGHCPGSVMFLFQGSNGTVLYTGFRLA
 KGEASRMELLHSGGRVKDIQSVYLDTTFCDFRYQIPSRQCLRGILELVRSWVTRSPHHVWLNCKAAY
 GYEYLFNTLSEELGVQVHVDKLDMFKNMPDILHHLTTDRNTQIHACRHPKAEFCQWNKLPKGITSQNK
 ALHTISIKPSTMWFGERTKTNVIVRTGESSYRACFSFHSFSEIKDFLSYICPVNVYPNVPVGLTVDK
 VMDVLKPLCRSPQSVPEPKYKPLGKLRARTIHL DSEEDDLFDDPLPTPLRHKVPYQLTLQPELFSMKAL
 PLDQPELRQSPGCKAESVWSPSLANFIDCEESNSDSGEELETPPPSLQGGGLGPSTLVQQNADPDVDIPQ
 WEVFFKRRDEITVDTMIRTPRPRKMKGGQWSLKMLLQNLQIEEKHIFENRGWKMAGQVKGSCGLLEGQ
 SSLPTFKLATSLASNSFFWPPWHLHSHAHTQIFTFKKTKTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9039_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175683

ORF Size: 1809 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

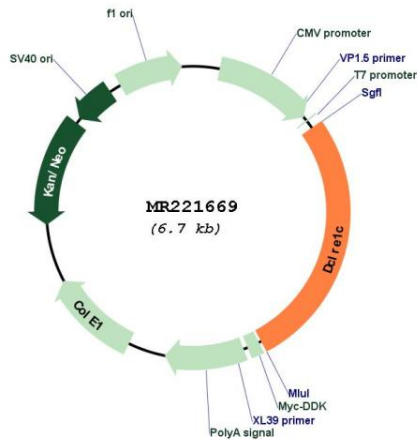
UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

MW: 69.2 kDa

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]

Product images:



Circular map for MR221669