

Product datasheet for **MR221671**

Dclre1c (NM_001110214) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_001110214) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dclre1c
Synonyms:	9930121L06Rik; A; AI661365; Art; Snm11
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR221671 representing NM_001110214
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCTCCTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGACAGGGAGAACC
 TGAAGCCCGTGCTACTTCTTTTCGCACTGTCACAAGGATCACATGAAAGGATTAAGGGCTCCTTCCTT
 GAAAAGAAGGCTGGAATGCAGCTTGAAGGTCTTCTGTACTGTTCTCCAGTCACTAAGGAGCTGTTGTTA
 ACTAGCCCAAAGTACAGATTCTGGGAAAACAGAATTATAACAATTGAAATTGAAACTCCTACGCAGATAT
 CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAGGTTGTTGTGACTCTTACCAGCTGGTCACTGCC
 AGGATCAGTTATGTTTTATTTTCAGGGCAGTAATGGAAGTGTCTTATACACAGGAGACTTCAGACTGGCA
 AAAGGAGAAGCTCCAGAATGGAGCTTCTGCCTCTGGAGGCAGAGTAAAAGACATCCAAAGTGTGTATT
 TAGACACGACTTCTGTGACCCAAGTTTTATCAGATCCCAAGTCGTGAGCAGTGTGAGGGGCATTTT
 GGAGCTGGTTCGGAGCTGGTCACTAGGAGTCCGCACCACGTCGTGTGGCTGAACTGTAAGCAGCTTAT
 GGTACAGATATTTATCCAACTAAGCGAGGAGCTGGGAGTTCAGGTTTCATGTGGACAAGCTGGACA
 TGTTTAAAAACATGCCTGATATCCTGCACCATCTCACAACGGACAGAAACACCCAGATCCACGCCTGCCG
 CCACCAAAGGCAGAAGAGTGTTCAGTGAATAAACTACCCTGTGGTATAACTTCCAAAAACAACT
 GCACTCCACACAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCACTGA
 TCGTTAGGACTGGAGAGAGCTCATAAGAGCTTCTCTCTTTTCACTCCTCCTTCAGTGAGATTAAGA
 TTTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAATGTATCCAGTTGGCCTCACTGTGGATAAG
 GTCATGGACGTTTTAAAGCCTCTGTGCCGTCTCCCAAAGTGTGAGCCAAAGTACAAACCGCTTGGAA
 AATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGTGGACACCATGATTAGAACTCCAGACCCAGAAA
 GATGAAAAGGCTGTGGTCAATGGAGTCTGAAGATGCTTCTCAGAACCTGGAATACAGGAAGAGAAACAT
 ATATTTGAGAACAGGGGCTGGAAGATGGCTGGGCAGGTAAGGGTAGCTGTGGTCTTTTGGAGGGCCAGA
 GTTCACTCCCAACATTCAAGCTAGCCACCTCCCTAGCCTCAAACCTCCAGCTTCTGGCCTCCATGGCACCT
 GCATTCACATGCGCACACACAAATCTTTACCTTAAAAAAAACCAAACCTTTACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221671 representing NM_001110214
 Red=Cloning site Green=Tags(s)

MSSFQGMAEYPTISIDRFDRENLKARAYFLSHCHKDHMKGLRAPSLKRRLECSLKVFLYCSVTKELL
 TSPKYRFWENRIITIEIETPTQISLVDEASGEKEEVVTLTPAGHCPGSMFLFQGSNGTVLYTGFRLA
 KGEASRMELLHSGGRVKDIQSVYLDTFCDPRFYQIPSRQCLRGILELVRVSWTRSPHHVWLNCKAAY
 GYEYLFNLSEELGVQVHVDKLDMFKNMPDILHLLTDRNTQIHACRHPKAEFCQWNKLPBGITSQNK
 ALHTISIKPSTMWFGERTKTNVIVRTGESSYRACFSFHSFSEIKDFLSYICPVNVYPNVIPVGLTVDK
 VMDVLKPLCRSPQSVPEPKYKPLGKLRARTIHLDSVDTMIRTPRPRKMKGCGQWSLKMLLQNLIEIQEEKH
 IFENRGWKMAGQVKGSCGGLLEGQSSLPTFKLATSLASNSSFWPPWHLHSHAHTQIFTFKKKTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

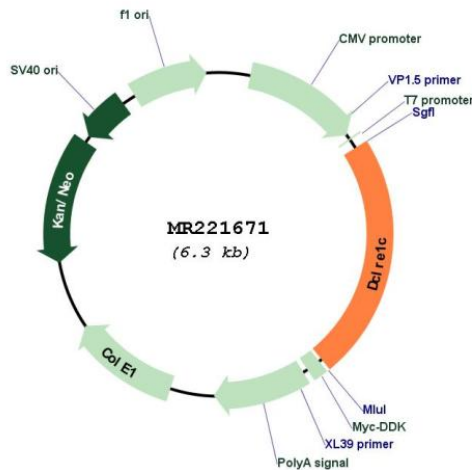
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001110214

ORF Size: 1458 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_001110214.1](#), [NP_001103684.1](#)

RefSeq Size: 3731 bp

RefSeq ORF: 1461 bp

Locus ID: 227525

UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

MW: 56.2 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]