

Product datasheet for **MR230085**

Dclre1c (NM_001302674) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_001302674) 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



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ORF Nucleotide Sequence:

>MR230085 representing NM_001302674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCTTCGGGTGAGGAGACTTCAGACTGGCAAAGGAGAAGCTTCCAGAATGGAGCTTCTGCACTCT
 GGAGAGTAAAAGACATCCAAAGTGTGATTTAGACACGACTTCTGTGACCCAAGGTTTTATCAGATCCC
 AAGTCGTGAGCAGTGTGAGGGGCATTTTGGAGCTGGTTCGGAGCTGGGTCAGTACGAGTCCGACCCAC
 GTCGTGTGGTGAAGTAAAGCAGCTTATGGCTACGAGTATTTATCCACCAACCTAAGCGAGGAGCTGG
 GAGTTCAGGTTTATGTGGACAAGCTGGACATGTTAAAAACATGCCTGATATCCTGCACCATCTCACAAC
 GGACAGAAACACCCAGATCCACGCCTGCCGCCACCCAAAGGCAGAAGAGTGTTCAGTGAATAAACTA
 CCCTGTGGTATAACTTCCAAAACAAAAGTGCCTCCACACAATCAGCATCAAGCCATCTACCATGTGGT
 TTGGAGAGAGGACCAGAAAAACCAACGTGATCGTTAGGACTGGAGAGAGCTCATAACAGAGCTTGCTTCTC
 TTTTCACTCCTCCTTCAAGTAAAGATTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAAT
 GTCATCCAGTTGGCCTCACTGTGGATAAGGTCATGGAGCTTTTAAAGCCTCTGTGCCGGTCTCCCAAA
 GTGTTGAGCCAAAGTACAAACCGCTTGGAAAATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGAGGA
 AGACGATGATCTTTGATGACCCTCTACCGACACCTTTAAGGCACAAAGTCCGTACCAGCTAACTCTT
 CAGCCTGAGCTGTTTTCAATGAAGGCACTGCCACTAGACCAGCCTGAACTGAGACAAAGCCAGGAGGCT
 GCAAAGCAGAGAGTGTGTGGAGCCCTTCTTTGGCTAACTCATAGACTGTGAAGAATCCAACAGCGACAG
 TGGAGAAGAGCTAGAAACCCACCACCTCACTGCAGGGAGGTCTGGGCCCTCGACACTCGTCCAGCAA
 AATGCTGATCCGGATGTGGACATACCACAGTGGGAAGTCTTCTTCAAAGAAGAGATGAAATCACAGTGG
 ACACCATGATTAGAAGTCCAGACCCAGAAAGATGAAAGGCTGTGGTCAATGGAGTCTGAAGATCGCTTCT
 CCAGAACCTGGAATACAGGAAGAGAAACATATTTGAGAACAGGGGCTGGAAGATGGCTGGGCAGGTA
 AAGGGTAGCTGTGGTCTTTTGGAGGGCCAGAGTCACTCCAACATTCAAGCTAGCCACCTCCCTAGCCT
 CAAACTCCAGTCTGGCCTCCATGGCACCTGCATTACATGCGCACACAAAATCTTTACCTTTAAAAA
 AAAAACAAAACCTTACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230085 representing NM_001302674
 Red=Cloning site Green=Tags(s)

MRLRVRRQLTGKRRSFQNGASALWRVKDIQSVYLDITFCDFRYQIPSRQCLRGILELVRVSWVTRSPHH
 VVWLNCKAAYGYEYLFNTLSEELGVQVHVDKLDKMFKNMPDILHHLTTDRNTQIHACRHPKAEFCQWNKL
 PCGITSQNKALHTISIKPSTMWFGERTKTNVIVRTGESSYRACFSFHSSSEIKDFLSYICPVNVYPN
 VIPVGLTVDKVMDVLPKLCRSPQSVPEPKYKPLGKLRARTIHLDEEDDLFDDPLPTPLRHKVPYQLTL
 QPELFSMKALPLDQPELRQSPGGCKAESVWSPSLANFIDCEESNSDSGEELETPPPSLQGLGPSTLVQQ
 NADPDVDIPQWEVFFKRRDEITVDTMIRTPRPRKMKGCGQWSLKMLLQNLIEIQEEKHIFENRGWKMAGQV
 KGSCGLLEGQSSLPTFKLATSLASNSSFWPPWHLHSHAHTQIFTFKKKTKTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

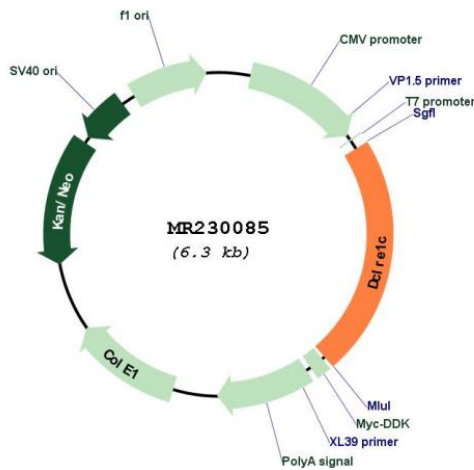
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001302674

ORF Size:

1419 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_001302674.1](#), [NP_001289603.1](#)

RefSeq Size: 3896 bp

RefSeq ORF: 1422 bp

Locus ID: 227525

UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

MW: 54.7 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]