

Product datasheet for **MR222162**

Dclre1c (NM_146114) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_146114) 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)



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ORF Nucleotide
Sequence:

>MR222162 representing NM_146114
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTCCTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGACAGGGAGAACC
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 CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAGAGTTTGTGACTCTTACCAGCTGGTCACTGCC
 AGGATCAGTTATGTTTTATTTTCAGGGCAGTAATGGAAGTGTCTTATACACAGGAGACTTCAGACTGGCA
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 GCACTCCACACAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCAAGTGA
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 CACGTGCAGACTCACAGAGCTCCTGACTTTGAAATCCCTCAACTCCCGAAGCGGAGCTTCTACGCC
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 TCACCTTTAGATAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR222162 representing NM_146114
 Red=Cloning site Green=Tags(s)

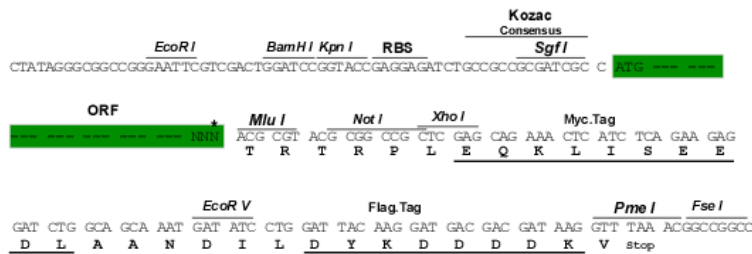
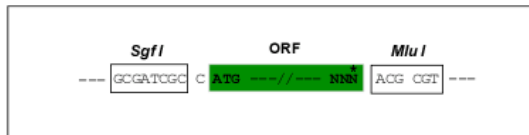
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 KGEASRMELLHSGGRVKDIQSVYLDTTFCDFRYQIPSRQCLRGILELVRWVTRSPHHVWLNCKAAY
 GYEYLF TNLSEELGVQVHVDKLD MFKNMPDILHHLTTDRNTQIHACRHPKAEECFQWNKLP CGIT SQNKT
 ALHTISIKPSTMWFGERTKTNVIVRTGESSYRACFSFHSSFSEIKDFLSYICPVNVYPNVIPVGLTVDK
 VMDVLKPLCRSPQSVPEPKYKPLGKLRARTIHL DSEEDDLFDDPLPTLRHKVPYQLTLQPELFSMKAL
 PLDQPELRQSPGGCKAESVWSPSLANFIDCEESNSDSGEELET PPPSLQGG L GPSTLVQQNADPDVDIPQ
 WEVFFKRRDEITGECLEHL PSSIETGGSQSPKLCSDSPKLCSDSPKLCSDSDGDSTHISSQSSQSTHIT
 DQGSQGWDSQCDTVLLSSQEKSGGDSTSLNKGAYKPKLKESISASQIEQDALCPQDTHCDLKSRAEVNGA
 PCLVELDTLSGRKSPPEKTLSSSTRADSSSSDFEIPSTPEALPTPEHLQCLYRKLATGQSI VVEKRKC
 SLLDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_146114

ORF Size: 2115 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_146114.3](#), [NP_666226.2](#)

RefSeq Size: 3759 bp

RefSeq ORF: 2118 bp

Locus ID: 227525

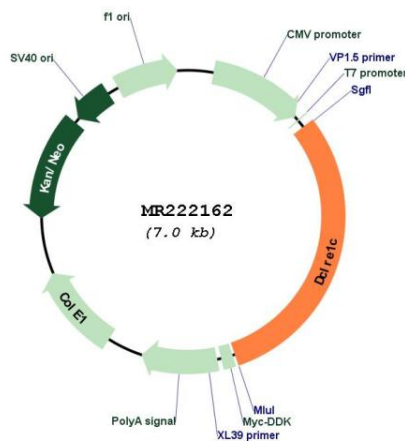
UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

MW: 79.3 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 MR222162