

Product datasheet for **MG222162**

Dclre1c (NM_146114) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_146114) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dclre1c
Synonyms:	9930121L06Rik; A; AI661365; Art; Snm11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG222162 representing NM_146114
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTCCTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGCAGGGAGAACC
 TAAAAGCCCGTGCTACTTCCTTCGCACTGTCAAGGATCACATGAAAGGATTAAGGGCTCCTTCCTT
 GAAAAGAAGGCTGGAATGCAGCTTGAAGGTCTTCTGTACTGTTCTCCAGTCACTAAGGAGCTGTTGTTA
 ACTAGCCCAAAGTACAGATTCTGGGAAAACAGAATTATAACAATTGAAATTGAAACTCCTACGCAGATAT
 CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAGGTTGTTGTACTCTTACCAGCTGGTCACTGCC
 AGGATCAGTTATGTTTTATTTCAAGGCAGTAATGGAAGTGTCTTATACACAGGAGACTTCAGACTGGCA
 AAAGGAGAAGCTCCAGAATGGAGCTTCTGCCTCTGGAGGCAGAGTAAAAGACATCCAAAGTGTGTATT
 TAGACACGACTTCTGTGACCCAAGTTTTATCAGATCCCAAGTCGTGAGCAGTGTGAGGGGCATTTT
 GGAGCTGGTTCGGAGCTGGTCACTAGGAGTCCGCACCACGTCGTGTGGCTGAAGTGTAAAGCAGCTTAT
 GGTACAGATATTTATCCAACTAAGCGAGGAGCTGGGAGTTCAGGTTTCATGTGGACAAGCTGGACA
 TGTTTAAAAACATGCCTGATATCCTGCACCATCTCACAACGGACAGAAACACCCAGATCCACGCCTGCCG
 CCACCCAAAGGCAGAAGAGTGTTCAGTGAATAAACTACCCTGTGGTATAACTTCCAAAAACAACT
 GCACTCCACAAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCAAGTGA
 TCGTTAGGACTGGAGAGAGCTCATAAGAGCTTGTCTTCTTTTCACTCCTCCTCAGTGAGATTAAGA
 TTTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAATGTATCCAGTTGGCCTCACTGTGGATAAG
 GTCATGGACGTTTTAAAGCCTCTGTGCCGTCTCCCAAAGTGTGAGCCAAAGTACAAACCGCTTGGAA
 AATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGAGGAAGCAGATGATCTCTTTGATGACCTTACC
 GACACCTTTAAGGCACAAGTTCCGTACCAGCTAACTTTCAGCCTGAGCTGTTTTCAATGAAGGCACTG
 CCACTAGACCAGCTGAACTGAGACAAAGCCAGGAGGCTGCAAAGCAGAGAGTGTGTGGAGCCCTTCTT
 TGGCTAACTTCATAGACTGTGAAGAATCCAACAGCGACAGTGGAGAAGAGCTAGAAAACCCACCACCTC
 ACTGCAGGGAGTCTGGGCCCTCGCACTCGTCCAGCAAAATGCTGATCCGGATGTGGACATACCACAG
 TGGGAAGTCTTCTTCAAAGAAGAGATGAAATCACAGGTGAATGTTTGGAACTTACCTTCTCCATAG
 AGACAGGGGGATCTCAGTACCAAAGCTCTGCAGTCACTACCAAAGCTCTGCAGTCACTACCAAAGCT
 CTGCAGTCACTGATGGAGACTCCACCATATCTTCCAGAATTCATCTCAGTCAACCCATATAACA
 GATCAAGGAAGTCAAGGCTGGGACAGCCAGTGTGATACTGTTTTGTTATCTTCCAAGAGAAAAGTGGTG
 GGGATAGTACCTTTAAACAAGGTGCCCTACAACCAAACTCAAAGAGAGATTTCTGCCTCTCAAT
 AGAACAGGATGCACTGTGTCCACAAGATACTCACTGTGATTTGAAAAGCAGAGCTGAAGTAAATGGAGCC
 CCTTGTCTGTAGAACTAGACACCTGAGTGGCAGGAAGTCTCCACCTGAGAAGACATTGCTAAGCAGCA
 CACGTGCAGACTCACAGACTCCTCTGACTTTGAAATCCCTCACTCCCGAAGCGGAGCTTCTACGCC
 AGAGCATTTGCAGTGCTTATACAGGAACTGGCAACAGTCAAAGTATAGTTGTCGAAAAAAGAAAATGT
 TCACCTTTAGATAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222162 representing NM_146114
 Red=Cloning site Green=Tags(s)

MSSFQGM AEYPTISIDRFDRENLKARAYFLSHCHKDHMKGLRAPSLKRRLECSLKVFLYCSPVTKELL
 TSPKYRFWENRIITIEIETPTQISLVDEASGEKEEVVTLTPAGHCPGSMVFLFQGSNGTVLYTGDFRLA
 KGEASRMELLHSGGRVKDIQSVYLDTTFCDFRYQIPSRQCLRGILEL VRSWVTRSPHHVWLNCKAAY
 GYEYLF TNLSEELGVQVHVDKLDMFKNMPDILHHLTTDRNTQIHACRHPKAEECFQWNKLP CGIT SQNKT
 ALHTISIKPSTMWFGERTRKTNIIVRTGESSYRACFSFHSSFSEIKDFLSYICPVNVYPNVIPVGLTVDK
 YMDVLKPLCRSPQSVPEPKYKPLGKLRARTIHL DSEEDDLFDDPLPTLRHKVPYQLTLQPELFSMKAL
 PLDQPELRQSPGGCKAESVWSPSLANFIDCEESNSDSGEELET PPPSLQGG L GPSTLVQQNADPDVDIPQ
 WEVFFKRRDEITGECLHLPSSIETGGSQSPKLCSDSPKLCSDSPKLCSDSDGDSTHISSQSSQSTHIT
 DQGSQGWDSQCDTVLLSSQEKSGGDSTSLNKGAYKPKLKESISASQIEQDALCPQDTHCDLKSRAEVNGA
 PCLVELDTLSGRKSPPEKTLLSSTRADSSSDFEIPSTPEAELPTPEHLQCLYRKLATGQSIVVEKRKC
 SLLDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

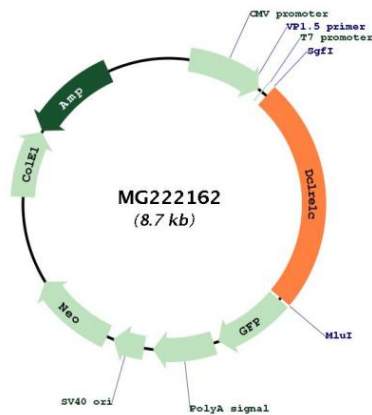
Locus ID: 227525

UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

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 MG222162