

Product datasheet for **MG221669**

Dclre1c (NM_175683) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dclre1c (NM_175683) 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:

>MG221669 representing NM_175683
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTCCTCCAGGGACAGATGGCGGAGTATCCAACCATCTCCATTGACCGCTTCGACAGGGAGAACC
 TGAAGCCCGTGCTACTTCTTTTCGCACTGTCACAAGGATCACATGAAAGGATTAAGGGCTCCTTCCTT
 GAAAAGAAGGCTGGAATGCAGCTTGAAGGTCTTCTGTACTGTTCTCCAGTCACTAAGGAGCTGTTGTTA
 ACTAGCCCAAAGTACAGATTCTGGGAAAACAGAATTATAACAATTGAAATTGAAACTCCTACGCAGATAT
 CTTTAGTTGATGAGGCTTCGGGTGAGAAGGAGGTTGTTGTACTCTTACCAGCTGGTCACTGCC
 AGGATCAGTTATGTTTTATTTTCAGGGCAGTAATGGAAGTGTCTTATACACAGGAGACTTCAGACTGGCA
 AAAGGAGAAGCTCCAGAATGGAGCTTCTGCACCTGGAGGCAGAGTAAAAGACATCCAAAGTGTGTATT
 TAGACACGACTTCTGTGACCCAAGTTTTATCAGATCCCAAGTCGTGAGCAGTGTGTTGAGGGCATT
 GGAGCTGGTTCGGAGCTGGTCACTAGGAGTCCGCACCACGTCGTGTGGTGAAGTGTAAAGCAGCTTAT
 GGCTACGAGTATTTATTCACCAACCTAAGCGAGGAGCTGGGAGTTCAGGTTTCATGTGGACAAGCTGGACA
 TGTTTAAAAACATGCCTGATATCCTGCACCATCTCACAACGGACAGAAACACCCAGATCCACGCCTGCCG
 CCACCCAAAGGCAGAAGAGTGTTCAGTGAATAAACTACCCTGTGGTATAACTTCCAAAAACAACT
 GCACTCCACACAATCAGCATCAAGCCATCTACCATGTGGTTTGGAGAGAGGACCAGAAAAACCAAGTGA
 TCGTTAGGACTGGAGAGAGCTCATAAGAGCTTGTCTTCTTTTCACTCCTCCTTCAGTGAGATTAAGA
 TTTTTTGAGCTACATCTGCCAGTGAATGTGTATCCAAATGTATCCAGTTGGCCTCACTGTGGATAAG
 GTCATGGACGTTTTAAAGCCTCTGTGCCGTCTCCCAAAGTGTGAGCCAAAGTACAAAACCGCTTGGAA
 AATTGAAGAGAGCCAGAACAATCCATCTTGACTCGGAGGAGACGATGATCTCTTTGATGACCTTACC
 GACACCTTTAAGGCACAAGTTCCTGACCTAACCTTTCAGCCTGAGCTGTTTTCAATGAAGGCACTG
 CCACTAGACCAGCTGAACTGAGACAAAGCCAGGAGGCTGCAAAGCAGAGAGTGTGTGGAGCCCTTCTT
 TGGCTAACTTCATAGACTGTGAAGAATCCAACAGCGACAGTGGAGAAGAGCTAGAAAACCCACCACCTC
 ACTGCAGGGAGTCTGGGCCCTCGACACTCGTCCAGCAAAATGCTGATCCGGATGTGGACATACCACAG
 TGGGAAGTCTTCTTCAAAGAAGAGATGAAATCACAGTGGACACCATGATTAGAAGTCCAGACCCAGAA
 AGATGAAAGGCTGTGGTCAATGGAGTCTGAAGATGCTTCTCCAGAACCTGGAAATACAGGAAGAGAAACA
 TATATTTGAGAACAGGGCTGGAAGATGGCTGGCAGGTAAAGGGTAGCTGTGGTCTTTTGGAGGGCCAG
 AGTTCACTCCCAACATTCAGCTAGCCACCTCCCTAGCCTCAAACCTCCAGCTTCTGGCCTCCATGGCACC
 TGCATTACATGGCAGACACAAATCTTACCTTAAAAAAAACCAAACTTTACTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221669 representing NM_175683
 Red=Cloning site Green=Tags(s)

MSSFQGM AEYPTISIDRFDRENLKARAYFLSHCHKDHMKGLRAPSLKRRLECSLKVFLYCSVPTKELL
 TSPKYRFWENRIITIEIETPTQISLVDEASGEKEEVVTLTPAGHCPGSMFLFQGSNGTVLYTGDFRLA
 KGEASRMELLHSGGRVKDIQSVYLDTFCDPRFYQIPSRQCLRGILELVRSWVTRSPHHVWLNCKAAY
 GYEYLFNTLSEELGVQVHVDKLDMFKNMPDILHHLTDRNTQIHACRHPKAEECFQWNKLP CGITSQNK
 ALHTISIKPSTMWFGERTKTNVIVRTGESSYRACFSFHSSFSEIKDFLSYICPVNVYPNVI PVGLTVDK
 VMDVLKPLCRSPQSVPEKYKPLGKLRARTIHL DSEEDDLFDDPLPTPLRHKVPYQLTLQPELFSMKAL
 PLDQPELRQSPGCKAESVWSPSLANFIDCEESNSDSGEELTPPPSLQGLGPSTLVQQNADPDVDIPQ
 WEVFFKRRDEITVDTMIRTPRPRKMKGCQWLSKMLLQNLQIEEKHIFENRGWKMAGQVKGSCG LLEGQ
 SSLPTFKLATSLANSSFWPPWHLHSHAHTQIFTFKKTKTLL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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

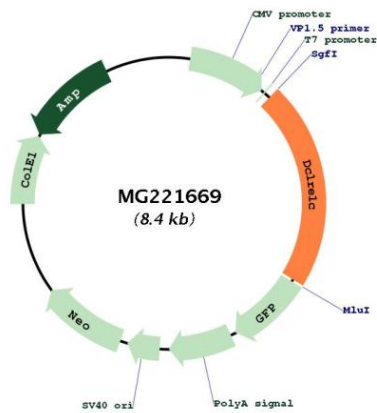
UniProt ID: [Q8K4J0](#)

Cytogenetics: 2 A1

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 MG221669