OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC208994

SNM1A (DCLRE1A) (NM_014881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNM1A (DCLRE1A) (NM_014881) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNM1A
Synonyms:	PSO2; SNM1; SNM1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208994 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTAGAAGACATTTCCGAAGAAGACATTTGGGAATACAAATCTAAAAGAAAACCAAAACGAGTTGATC
CAAATAATGGCTCTAAAAATATTCTAAAATCTGTTGAAAAAGCAACAGATGGAAAATACCAGTCAAAACG
GAGTAGAAACAGAAAAAGAGCCGCAGAAGCTAAAGAGGTGAAGGACCATGAAGTGCCCCTTGGAAATGCA
GGTTGTCAGACTTCTGTTGCTTCTAGTCAGAATTCAAGTTGTGGAGATGGTATTCAGCAGACCCAAGACA
AGGAAACTACTCCAGGAAAACTCTGTAGAACTCAAAAAAGCCAACACGTGTCCCCAAAGATACGTCCAGT
TTATGATGGATACTGTCCAAATTGCCAGATGCCTTTTTCCTCATTGATAGGGCAGACACCTCGATGGCAT
GTTTTTGAATGTTTGGATTCTCCACCACGCTCTGAAACAGAGTGTCCTGATGGTCTTCTGTGTACCTCAA
CCATTCCTTTTCATTACAAGAGATACACTCACTTCCTGCTAGCTCAAAGCAGGGCTGGTGATCATCCTTT
TAGCAGCCCATCACCTGCGTCAGGTGGCAGTTTCAGTGAGACTAAGTCAGGCGTCCTTTGTAGCCTTGAG
GAAAGATGGTCTTCGTATCAGAACCAAACTGATAACTCGGTTTCAAATGATCCCTTATTGATGACACAGT
ATTTTAAAAAGTCTCCGTCTCTGACTGAAGCCAGTGAAAAGATTTCTACTCATATCCAAACATCCCAACA
AGCTCTACAATTTACAGATTTTGTTGAGAATGACAAACTAGTGGGAGTTGCTTTGCGTCTTGCAAACAAC
TCAGAACACATAAATTTGCCATTGCCAGAAAATGACTTCAGTGACTGTGAAATCTCCTATTCTCCACTTC
AAAGTGATGAAGACACTCATGATATCGATGAAAAACCGCATGATTCACAAGAACAACTGTTTTTTACCGA
AAGCTCAAAAGATGGCAGCCTCGAAGAAGATGATGACAGCTGTGGTTTTTTTAAAAAACGACATGGTCCC
TTACTGAAGGACCAGGATGAGAGCTGCCCCAAAGTGAACAGCTTCTTAACTCGGGATAAGTATGATGAAG
GATTGTATAGATTCAATAGTCTAAATGATTTGTCTCAACCTATTTCTCAAAATAATGAGAGTACTTTGCC
TTATGATCTGGCATGTACTGGTGGTGATTTTGTGTTGTTTCCACCTGCATTGGCAGGGAAGCTTGCTGCT
TCTGTTCATCAGGCAACTAAAGCAAAACCTGATGAGCCAGAATTTCACTCAGCTCAATCAAATAAACAGA
AACAGGTAATTGAAGAATCATCTGTTTACAATCAAGTTTCTCTTCCGTTAGTTAAGAGTTTAATGTTGAA
ACCTTTTGAAAGTCAGGTAGAAGGGTATCTTTCTTCCCAACCAACCCAAAATACAATTAGAAAATTATCA

View online »

AGTGAGAACTTGAATGCTAAGAATAATACTAACTCAGCATGTTTCTGCAGAAAGGCATTAGAGGGTGTGC
CAGTTGGTAAAGCTACAATTTTAAATACAGAAAACTTGTCTAGTACACCTGCTCCGAAGTATTTGAAAAT
ATTGCCTTCTGGTCTTAAGTATAATGCAAGACATCCTTCTACCAAGGTAATGAAGCAAATGGATATAGGT
GTGTATTTTGGACTACCTCCCAAAAGAAAGGAAGAGAAATTGCTAGGGGAAAGTGCATTAGAATGGATAA
ACTTAAATCCAGTTCCAAGTCCTAATCAAAAGAGGTCCTCGCAGTGCAAGAGGAAAGCAGAAAAATCTTT
AAGTGATTTAGAATTTGATGCAAGTACTTTACATGAGAGTCAGCTTTCTGTGGAACTTTCTAGTGAGAGG
TCACAGCGTCAAAAAAAGAGATGTAGAAAGTCAAATTCACTGCAGGAAGGAGCGTGTCAGAAGAGATCAG
ATCACCTTATTAATACAGAATCTGAAGCAGTCAATTTAAGTAAAGTCAAAGTCTTCACAAAATCAGCTCA
TGGTGGGCTGCAAAGGGGCAACAAGAAAATCCCAGAGTCATCTAATGTAGGAGGATCAAGAAAAAAGACA
TGTCCATTCTATAAGAAAATACCTGGAACCGGCTTTACAGTTGATGCCTTTCAGTATGGCGTGGTTGAAG
GTTGCACAGCCTATTTTCTCACACATTTTCATTCTGATCATTATGCTGGATTGTCTAAACACTTCACATT
TCCAGTTTATTGTAGTGAGATAACTGGCAATTTGTTGAAGAACAAGCTTCATGTGCAAGAACAATATATT
CACCCATTGCCACTGGACACTGAATGTATTGTGAATGGTGTCAAAGTTGTTTTGCTTGATGCCAATCACT
GTCCAGGTGCTGTCATGATCCTCTTTTATCTTCCTAATGGTACTGTCATATTACACACGGGAGACTTCAG
AGCAGATCCCAGCATGGAACGTTCTCTTCTTGCGGACCAGAAAGTCCATATGCTGTACTTAGATACCACA
TATTGTAGCCCAGAATACACCTTTCCATCTCAGCAAGAGGTTATCCGGTTTGCCATCAACACTGCCTTTG
AGGCTGTAACTCTAAACCCACATGCTCTTGTTGTCTGTGGCACTTACTCTATTGGAAAAGAGAAAGTCTT
CCTAGCCATTGCTGATGTTTTAGGTTCAAAAGTGGGCATGTCCCAGGAAAAATATAAAACTCTACAGTGC
CTCAATATACCAGAAATTAATTCACTCATCACTACCGACATGTGCAGTTCATTGGTTCACCTTCTCCCAA
TGATGCAAATTAATTTTAAGGGCTTACAGAGTCATTTGAAGAAGTGTGGTGGGAAATACAATCAGATTTT
GGCATTTCGACCTACAGGATGGACACACTCTAACAAGTTCACTAGAATAGCAGATGTTATTCCCCAGACC
AAAGGAAACATTTCAATATATGGAATTCCTTACAGTGAACACAGCAGCTACCTAGAAATGAAGCGCTTTG
TCCAGTGGCTGAAGCCCCAGAAAATCATACCTACTGTAAATGTGGGCACCTGGAAATCTAGGAGCACAAT
GGAGAAATATTTTAGAGAGTGGAAATTGGAAGCTGGATAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208994 protein sequence
Red=Cloning site Green=Tags(s)

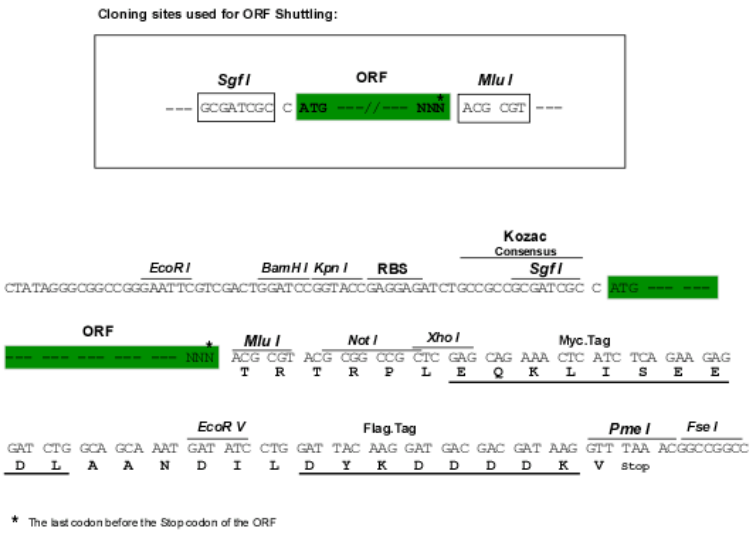
MLEDISEEDIWEYKSKRKPKRVDPNNGSKNILKSVEKATDGKYQSKRSRNRKRAAEAKEVKDHEVPLGNA
GCQTSVASSQNSSCGDGIQQTQDKETTPGKLCRTQKSQHVSPKIRPVYDGYCPNCQMPFSSLIGQTPRWH
VFECLDSPPRSETECPDGLLCTSTIPFHYKRYTHFLLAQSRAGDHPFSSPSPASGGSFSETKSGVLCSLE
ERWSSYQNQTDNSVSNDPLLMTQYFKKSPSLTEASEKISTHIQTSQQALQFTDFVENDKLVGVALRLANN
SEHINLPLPENDFSDCEISYSPLQSDEDTHDIDEKPHDSQEQLFFTESSKDGSLEEDDDSCGFFKKRHGP
LLKDQDESCPKVNSFLTRDKYDEGLYRFNSLNDLSQPISQNNESTLPYDLACTGGDFVLFPPALAGKLAA
SVHQATKAKPDEPEFHSAQSNKQKQVIEESSVYNQVSLPLVKSLMLKPFESQVEGYLSSQPTQNTIRKLS
SENLNAKNNTNSACFCRKALEGVPVGKATILNTENLSSTPAPKYLKILPSGLKYNARHPSTKVMKQMDIG
VYFGLPPKRKEEKLLGESALEWINLNPVPSPNQKRSSQCKRKAEKSLSDLEFDASTLHESQLSVELSSER
SQRQKKRCRKSNSLQEGACQKRSDHLINTESEAVNLSKVKVFTKSAHGGLQRGNKKIPESSNVGGSRKKT
CPFYKKIPGTGFTVDAFQYGVVEGCTAYFLTHFHSDHYAGLSKHFTFPVYCSEITGNLLKNKLHVQEQYI
HPLPLDTECIVNGVKVVLLDANHCPGAVMILFYLPNGTVILHTGDFRADPSMERSLLADQKVHMLYLDTT
YCSPEYTFPSQQEVIRFAINTAFEAVTLNPHALVVCGTYSIGKEKVFLAIADVLGSKVGMSQEKYKTLQC
LNIPEINSLITTDMCSSLVHLLPMMQINFKGLQSHLKKCGGKYNQILAFRPTGWTHSNKFTRIADVIPQT
KGNISIYGIPYSEHSSYLEMKRFVQWLKPQKIIPTVNVGTWKSRSTMEKYFREWKLEAGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6678_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_014881
ORF Size:	3120 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_014881.2, NP_055696.2
RefSeq Size:	4585 bp
RefSeq ORF:	3123 bp
Locus ID:	9937
UniProt ID:	Q6PJP8

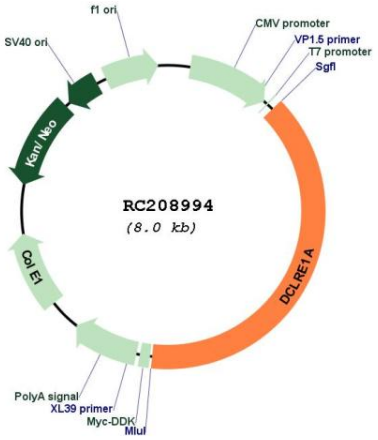
Cytogenetics: 10q25.3

Protein Families: Druggable Genome

MW: 116.6 kDa

Gene Summary: This gene encodes a conserved protein that is involved in the repair of DNA interstrand cross-links. DNA cross-links suppress transcription, replication, and DNA segregation. The encoded protein is a regulator of the mitotic cell cycle checkpoint. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC208994