

## Product datasheet for **SC100363**

### SNM1A (DCLRE1A) (NM\_014881) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNM1A (DCLRE1A) (NM_014881) Human Untagged Clone
Tag:	Tag Free
Symbol:	SNM1A
Synonyms:	PSO2; SNM1; SNM1A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100363 sequence for NM_014881 edited (data generated by NextGen Sequencing)

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ATGTTAGAAGACATTTCCGAAGAAGACATTTGGGAATACAAATCTAAAAGAAAACAAAA
CGAGTTGATCCAAATAATGGCTCTAAAAATATTCTAAAACTGTTGAAAAAGCAACAGAT
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AAAGGAAACATTTCAATATATGGAATTCCTTACAGTGAACACAGCAGCTACCTAGAAATG
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TGGAAATCTAGGAGCACAATGGAGAAATATTTTAGAGAGTGGAAATTGGAAGCTGGATAT
TGA
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Clone variation with respect to NM\_014881.3  
949 g=>c

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_014881 unedited
GGATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTTTCATTGCTG
CTGGAGGAAGATCATGGACTGTCGCGGGAAACTGAAGTGGTTGAGTATCCACTAGTCGTG
GATGAGGGCAGTGACTTCGCAGTTTTTTGCGAATTACACATCTCTTTGATTATGTTGTGA
CTAGTTTTGTTAGATAGTCATTTAGTGTGGGATACCTGTTAAGCCCTTTGTCAGGGA
CTGTGGTTGGATTTATGAATATTTGGACGTTGTCCACTTGAAAGAACTGACAGTAGCT
TCATAACAATGTTACAAATCTCGTTCTAAGATTAAAGCTGTTGAACCTATATTTGCCATTA
GCGCTTAATTTTTGAAGTATTATTTTTATGAATCAAGCCCTGGAAAAGGCAAGATATTT
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CATTTCCGAAGAAGACATTTGGGAATACAATCTAAAAGAAAACCANNACGAGTTGATCC
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TCANNACGGAGTAGAAAACAGAAAAGAGCCGAGAAAGCTAAAAGAGTGAAGGACCATGNA
GTGCCCTTGNAATGCANNGTGTCAGACTTCTGTTGCTTCTAGTCAGAATTCAAGTGTGG
AGATTGTTTNCAGCAGACCCAGACAGGNAACTACTNCAGNAACTCTGTNNAACTCAAAG
NCCACACN
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_014881 unedited GGGNGGNNGCTTTTTNNNNNNATTGACTNTGNACCNCGGCCCGCATACTGANGATCG ATTTTTTTTTTTTTTTTTTAAATTTATATTAATTTTATTTAAGTATACACGTCATATAA AAGTTTCATCTCATAATTTTAAAGACACATAATTACTTATATATAATGCTTCANACTA CTTTATTAATTATCATTAAATCCCTTTTGTCCCTGAATCTGCCTTTGCTTCCCTCTCTAAA AGCTGAATGCAAAATATAACTGCCCTGGAGGNAAGGGACAAAAAATTAGGGGTCCAAG GAAACCCAGTTTCATTATCCCTTAAGAAGCTGAAAGCCTTTCGCCCCGAAAAATTTTGTT CAACCTTATTTGAAAAAAAATTTCTAAAAATCTTCAAGGGTTTTCCCCCAAGGT GTTTTTCCCATTTTTTTGGTTTTAAAACCAAAAAAGCCTTTTCCGGAAATTAAACCCCCC GGGACCCCGGGGGGATAAAAAAACCCCTCCATTTTCCCCCTCAAAAAATTTTC CCCTGTGGGCCCAAAATTTATGGGGGCCCTTTTATAGGGGGGAATTTTTTTGGGG GGGCGCCCCCGGAAAAAACCTCTTTTTTTAAAACCCCTTTCCTTTCGCGGGG AAAACCCCTTAAAAAGTTTTTTTCTTTTGCGGGGAAGAAAAAACACCTCTTTT TTTTAAAAAAAATAAAAAAGGGGGCCCCCCCCCGGGGAAAAAACAAAAAAA TTATTTTTTTTTCCCCCCCCCTTTTATAATAATTGTAGGGGCGCCCAAAATAAA TAATATTTATTTCTTTGAAAGGAAGAAAAAAAACCACCACCCCTCCCCTCGCTT GAGGAGT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014881
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014881.2</a> , <a href="#">NP_055696.2</a>
<b>RefSeq Size:</b>	4270 bp
<b>RefSeq ORF:</b>	3123 bp
<b>Locus ID:</b>	9937
<b>UniProt ID:</b>	<a href="#">Q6PJP8</a>
<b>Cytogenetics:</b>	10q25.3
<b>Protein Families:</b>	Druggable Genome

**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]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.