

Product datasheet for **SC112381**

DCLRE1B (NM_022836) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DCLRE1B (NM_022836) Human Untagged Clone
Tag:	Tag Free
Symbol:	DCLRE1B
Synonyms:	APOLLO; SNM1B; SNMIB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC112381 sequence for NM_022836 edited (data generated by NextGen Sequencing)

```
ATGAATGGGGTCTGATCCCCATACGCCCATCGCAGTGGACTTCTGGAGCCTGCGCCGG
GCTGGCACCACGCTCTTCTTCTTGTCTCACATGCACTCGGACCACACCGTGGGCCTG
TCTAGCACCTGGGCCCGGCCCTCTACTGCTCCCAATTACAGCCCACCTCTTGCATCGT
TACCTACAGGTATCTAAGCAATGGATCCAAGCCCTGGAGGTTGGTGAGAGCCACGTATTA
CCCCTAGATGAAATTGGACAAGAGACCATGACCGTAACCCCTCTCGATGCCAATCACTGT
CCTGGTTCTGTCTGTTTCTTCTTGAAGGATATTTTGAACCATCCTCTACACAGGTGAT
TTTCGATACACACCATCCATGCTAAAGGAGCCAGCCCTGACACTGGGGAACAGATCCAT
ACTTTATACCTAGACAACACCAATTGCAATCCAGCCCTGGTTCTTCTTCCCGACAAGAA
GCTGCCACCAGATTGTCCAGCTCATTGCAAAACACCCACAACATAACATAAAGATTGGA
CTCTACAGCCTGGGAAAGGAATCACTGCTGGAGCAGCTGGCCCTGGAGTTTCAGACCTGG
GTGGTATTGAGTCTCGGCGCTGGAGTTGGTACAGCTACTGGGCTGGCAGATGTGTTT
ACAGTGGAGGAGAAGGCTGGCCGCATCCATGCAGTAGACCATATGGAGATCTGCCATTCC
AACATGCTGCGTTGGAACAGACCCACCCTACGATTGCTATCCTTCCCAAGCCGAAAA
ATCCACAGCTCCACCCCTGATATCCACGTCATCCCTTACTCTGACCATTCCTTCTACTCC
GAGCTTCTGTCCTTTGTGCGCAGCACTGAAGCCTTGCCAGGTGGTGGCCATTGTAAGTCGG
CGGCCCTGTGGAGGCTTTCAGGACAGTCTGAGCCCCAGGATCTCCGTGCCCTGATTCCG
GACTCTGTACAGCAATACATGAGTTCTTCTCTAGAAAACCAAGCCTTCTCTGGCTGTTA
GAAAGGAGGCTAAAGAGGCCGAGAACCAAGGTGTTGTGTTTGAATCCCTGAGGAAAGT
GCTGATCAATCTCAAGCTGACAGAGACTCAAAGAAGGCCAAGAAAGAGAACTTTCTCCC
TGGCCTGCGGACCTTGAAGAGCAGCCTTCCACCATCCTTTCGGATCAAGAAGCAGTTG
TTCCCAGATCTCTATAGCAAAGAATGGAACAAGGCAGTGCCTTTCTGTGAGTCTCAAAAG
AGGGTGACTATGTTGACGGCCCACTGGGATTTTCAGTGCACTTAAGGTCTACAGATGAG
GAGTTTATTTCTCAAAAACAGGGAGGAAATTGGTTTAGGGTCCCCCTTGGTACCCATG
GGAGATGATGATGGAGGTCCAGAAGCCACAGGGAATCAGAGTGCCTGGATGGGCCATGGT
TCTCCCCTGTCCACAGCAGCAAGGGCACCCCTCTTCTAGCTACTGAATTCAGGGGTCTA
GCACTCAAATATCTTCTGACTCCAGTGAACCTTTTCCAGGCAGGGTATTCTTCCAGGAGA
TTTGACCAGCAAGTGAAAAATACCATAAACCTGCTGA
```

Clone variation with respect to NM_022836.3
181 c=>t;234 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022836 unedited

```
NGGTTTCAATTTTGTNATACGACTTCACTATAGGGCGGCCGATTGCGCACCAGTCCCT
CTGGTGGAGCTGCGGCGGGCAATCGGAAATCGGCTACTTTGGCCTGTCTCCTCCCTGCAG
CGCGCGCTTTGAGTGCCCGGCTCGGCCTCCGCTCCCGCGCGGTTGGGAGTGTCCAGCGCC
CTCCGCGATTTGGGCTCCAGCGGGCAGGGTGACTTCCTTTTTCTGCCCACTCTGGTAACT
TATTGCTCTGCTGGGCTCTTTCCCTTAGGGTCTCTGGCCCTGTTCTTGGCCCAGCATGAC
TTTTATCGGGACGCCGTTGTGGAAGCCTCACGAGGAGCCCTGCCCCGTGGAGAAGATC
CCACTGGTGACTCCAACCCTACCACCATGAATGGGGTCTGATCCCCCATACGCCCATCG
CAGTGGACTTCTGGAGCCTGCGCCGGGCTGGCACCGCACGTCTTCTTCTTGTCTCACA
TGCACTCGGACCACACCGTGGGCTGTCTAGCACCTGGGCGCGGCCCTCTACTGCTCCC
CAATTACAGCCCACCTCTTGATCGTTACCTACAGGTATCTAAGCAATGGATCCAAGCCC
TGGAGGTTGGTGAGAGCCACGTATTACCCCTAGATGAAATTGGACAAGAGACCATGACCG
TAACCCTCCTCGATGCCATACTGNCCTGGGGTCTGGTCACTGTTTCTTGAAGGATAT
TTTTGGAACCATCCTCTACACAGGGTGATTTTCGATACACCATCCATGCTAAAGGAG
CCAGCCCTGCACTGGGGAACAGATCCATACTTTATACCTAGACACCAATTGCATCA
GNCCCCTGGGTTCTTCTTCCGACAAGAGCTGCAACCCAGATGTCCAGCTCATTGCAAAAC
ACCACACTACTTNTAAGGA
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022836 unedited <pre> ACTCTGGACCGCGGCCGTATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAGGACTTCAA ANAACTTTTAATTTGCTCACGCATACTCCAAANATTTTATAAAAAAGTATTTCTTAAAC TTAGTTATAAAAAAGAAGGATTCCATAGGCACGAGGACCCAGTGAACAAGTTTGGGAAG TGCTGCTCCACGGTGGGCCCATAGAGTCTTGTAAGATAGAAAAGTAGGCCCAAAAC AAACTCTTCCACCAGCTATCAGTTACTATCTTCAAACTGCAGTGTGGGCTCAATGTT GTCATTCTGTACTCTCCTGTCTTCAGCAGGGTTTATGGTATTTTCCACTTGCTGGTCAA ATCTCCTGGAAGAATACCCTGCCTGGAAGAAAGTTCACTGGAGTCAGAAGATATTTGAGTG CTAGACCCTGAATTCAGTAGCTAGAAGAGGGGTGCCCTTGCTGCTGTGGACAGGGGAG AACCATGGCCCATCCAGGCACTCTGATTCCCTGTGGCTTCTGGACCTCCATCATCATCTC CCATGGGTACCAAGGGGACCCTAAACCAATTTCTCCCTGGTTTTTGGAGAAATAAAT CCTCATCTGTAGACCTTAAGTGCACTGAAAATCCAGTGGGGCCGCAACATAGTCACCC TCTTTTGAGACTCACAGAAAGGCACTGCCTTGNTCCATTCTTTGCTATAGAGATCTGGGA ACAACGCTTCTTGATCCGCAAGGATGGTGGGAAGGCTGCTTTTCAGGTCCGAGCCAGG GAGAAGTTTCTCTTTCTGGCCTTCTTGAGTCTCTGTGCTGAGATTGACAGCATTTTCT CAGGGATTCAACACACCTGGGGTCTCGGCTCTTANCTCCTTACAGNCGAGAGGCT GGNTTCTAAGGAGACTCTGNATGTGACAGAGTCGATCAGGCACGGGATCTGGGCTANACG TCTGAAGC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_022836
Insert Size:	2500 bp
OTI Disclaimer:	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).
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:	<u>NM_022836.2, NP_073747.1</u>
RefSeq Size:	3664 bp
RefSeq ORF:	1599 bp
Locus ID:	64858
UniProt ID:	<u>Q9H816</u>
Cytogenetics:	1p13.2
Protein Families:	Druggable Genome

Gene Summary:

DNA interstrand cross-links prevent strand separation, thereby physically blocking transcription, replication, and segregation of DNA. DCLRE1B is one of several evolutionarily conserved genes involved in repair of interstrand cross-links (Dronkert et al., 2000 [PubMed 10848582]).[supplied by OMIM, Mar 2008]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).