

## Product datasheet for **SC320135**

### Seladin 1 (DHCR24) (NM\_014762) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Seladin 1 (DHCR24) (NM\_014762) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Seladin 1  
**Synonyms:** DCE; Nbla03646; seladin-1; SELADIN1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014762.3  
GCGGAGCTGGCGCAGTGACAGGAGGCGCGAACCCGACGCGTTACCGCGCGGCCGCA  
CCATGGAGCCCGCGTGTGCGTGGCCGTGTGCGCGTGTCTTCTGCTGTGGGTGGCC  
TGAAGGGGCTGGAGTTCTGTGCTCATCCACCAGCGCTGGGTGTTCTGTGCCTCTTCTCC  
TGCCGCTCTCGTTATCTTCGATATCTACTACTACGTGCGCGCCTGGGTGGTGTCAAGC  
TCAGCAGCGCTCCGCGCCTGCACGAGCAGCGCGTGCAGGACATCCAGAAGCAGGTGCGGG  
AATGGAAGGAGCAGGGTAGCAAGACCTTCATGTGCACGGGGCGCCTGGCTGGCTCACTG  
TCTCACTACGTGTGCGGAAGTACAAGAAGACACAAAAACATCATGATCAACCTGATGG  
ACATTCTGGAAGTGGACACCAAGAAACAGATTGTCGTGTGGAGCCCTTGGTGACCATGG  
GCCAGGTGACTGCCCTGTGACCTCCATTGGCTGGACTCTCCCCGTGTTGCCTGAGCTTG  
ATGACCTCACAGTGGGGGCTTGATCATGGGCACAGGCATCGAGTCATCATCCCACAAGT  
ACGGCCTGTTCCAACACATCTGCACTGCTTACGAGCTGGTCTGGCTGATGGCAGCTTTG  
TGCGATGCACTCCGTCGAAAACCTCAGACCTGTTCTATGCCGTACCCTGGTCTGTGGGA  
CGCTGGGTTTCTGGTGGCCGCTGAGATCCGCATCATCCCTGCCAAGAAGTACGTCAAGC  
TGCGTTTCGAGCCAGTGCAGGGCCTGGAGGCTATCTGTGCCAAGTTCACCCACGAGTCCC  
AGCGGCAGGAGAACCACTTCGTGGAAGGGCTGCTACTCCCTGGATGAGGCTGTCAATTA  
TGACAGGGGTGATGACAGATGAGGCAGAGCCCAGCAAGCTGAATAGCATTGGCAATTACT  
ACAAGCCGTGGTCTTTAAGCATGTGGAGAATCTGAAGACAAACCGAGAGGGCCTGG  
AGTACATTCCCTTGAGACACTACTACCACCGCCACACGCGCAGCATCTTCTGGGAGCTCC  
AGGACATCATCCCTTTGGCAACAACCCATCTTCCGCTACCTCTTTGGCTGGATGGTGC  
CTCCCAAGATCTCCCTCCTGAAGCTGACCCAGGGTGAACCCCTGCGCAAGCTGTACGAGC  
AGCACCACGTGGTGCAGGACATGCTGGTGCCTGAAGTGCCTGCAGCAGGCCCTGCACA  
CCTTCCAAAACGACATCCACGTCTACCCCATCTGGCTGTGTCCGTTATCCTGCCAGCC  
AGCCAGGCCTAGTGCACCCAAAGGAAATGAGGCAGAGCTCTACATCGACATTGGAGCAT  
ATGGGGAGCCGCGTGTGAAACACTTTGAAGCCAGGTCTGCATGAGGCAGCTGGAGAAGT  
TTGTCCGACGCTGCATGGCTTCCAGATGCTGTATGCCGACTGCTACATGAACCCGGGAGG  
AGTTCTGGGAGATGTTTGTGGCTCCTTGTACCACAAGCTGCGAGAGAAGCTGGGTTGCC



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AGGACGCCTTCCCCGAGGTGTACGACAAGATCTGCAAGGCCGCCAGGCACTGAGCTGGAG  
 CCCGCCTGGAGAGACAGACACGTGTGAGTGGTCAGGCATCTTCCCTTCACTCAAGCTTGG  
 CTGCTTTCCTAGATCCACACTTTCAAAGAGAAACCCCTCCAGAACTCCCACCCTGACAGC  
 CCAACACCACCTTCTCCTGGCTTCCAGGGGGCAGCCAGTGGAAATGGAAAGAATGTGGG  
 ATTTGGAGTCAGACAAGCCTGAGTCCAGTTCCTCCGTTTAGAATCATTAGCTGTGTGACT  
 CTGGGTGAGTCCCTTAACCCCTCTGAGCCCGGTCTCTTCATTAGTTGAAAGGGATAGTA  
 ATACACTTGCAGGTTGTGTATCTGAGTTGAGCACTGGTCACATTGAAGGTGCTGGG  
 TAAGTGGTAGCTCTTGTGCTTCCGTTTACGCGTACATCTGCAGTGGAGCCTGAAAAGG  
 CTCACATTAGGTCACCTGTGCACAGCCATGGCTGGAATGATGAAGGGGATACGCTGGAG  
 TTGCCCTGCCATCGCTCCATCAGCCAGACGAGGTCTCACAGGAGAAGGACAGCTTTC  
 CCCACCCTGGGATCTCAGGAGGGCAGCCACGGAGTGGGGAGGCCCCAGATGCGCTGTGCC  
 AAAGCCAGGTCCGAGGCCAAAGTTCTCCCTGCCATCCTTGGTGGCGTCTGCCCTTCT  
 CCTTCATGCTGGCCTGCAGGCCACCCAGCCACCCTGAGTCCACTCGGAGTGCCT  
 GTGTTCTGGAGAAGGCATTCCAGGTTGAATCTTGTCCAGCCTCAGCCTGGGACCT  
 AGGTGGAGAGAGTGGTCTCCGCTCTGAATTGGATCCAGGGGACCTGGGCTATTCTTCTT  
 GGCTCACCAACCTGCAGGCCTCATCTTCCCAAACCCACTTTGTCTTGGTGGGAGTGG  
 GTCGCGCTGCTCTGCAGCAGGGCTGGGGAGTGGGCAGCATCAGGTGGGAAAGTGGAGT  
 CCACCCTCATGTTTCTGTAGGATTCTCACCGTGGGGCTGGAAGAAAAGAGCATCGACTTG  
 ATTTCTCAACCACTCATCCCTCTTTTCTTCTTCCACCCTCCCAACCCAGCTGTAG  
 TTAATTTAGTGCCTTACAAATCCTAAGCTCAGAGAAAGTTCCATTTCCGTTCCAGAGGG  
 AAGGGAACCTCCCTAGGTCTTCCCTGGCTTGTATAACGCAAAGCTTGGTTGTTATGC  
 AACTCTATCTTAAAGAACTGCCAGCCTCAGCTGAAAACCCGAATCTGAGAAGGAATTGCC  
 TCATGTAAGGGAAGCTGGAATTAAGGGAGCTGAGCCAGTCATGGTTGTGGCGTGTGAGT  
 AGGAGACCTAGGTTTCAGCCCTCTCTACTGTACGCGAGCTGTGCAACGTGGGCAAGTCA  
 TTGTCCTCTGAGCTGCAGTTTCTCATCTGTACATCGCTACAGACAAGACCTCCCTGGA  
 ACCCTTCTGATTGTCTTAGACACTGTGGTTGCAAAACCCACGAAAGCCTCATTTGTGTG  
 GAAAGTCAGAGAAAAATGATCCAGTGGACACTGGGGATTATCTGTCAATCAAGATCCT  
 TCCTTCAACCCCAAGGTGAGTCCCATCTCATTCCAGAAAGGCTCATACTGGCTTGCA  
 GGGAAAGCATCTGTCTTGTATTCCAGGTGCCAGAATCCTCTCAGAGTCATTGAAGGGTGT  
 TCACCCATCCCACCAAGGCTTGGCACACTGCCAGTGTCTTAGCAGGGTCTTGTGAGGGC  
 TGGGGGCAATCCAGGCACTCAGAAGGCAAAGGAACCACCTACCCATTTGGCTCTGGAGG  
 GGGCAGAAAGAAAGAAAGAACCTCATCCTATATTTTACAAGCATGTGAATCTGGCATT  
 AGCTCTCATAGGAGACCCATGTGCTTCCCTTGTCTCAGTGCAAAACCTGATGATTCTACTTGC  
 TGTAGATGAATGGTTAACACGAGCTAGTTAAACAGTGCCATTGTTTTGCCAGTGAAGCCT  
 CCAACCTAAGCCACTGGGACGGTGGCCAGAGATGCCAGCAGCCTCTGTCCGCCCTTAGTC  
 ATATAACCAAAATCCAGACCTTATCCACAACCCGGGGCTTGGAAAGGAAGGTATTTTGG  
 ATCACACCCTCCGGTTATGTTGCTCCAGTAAAACTTGCCTGGAAAGAGGCACTTCTT  
 AGCATGGTGGAGTGGAGTTCATGGCTTTTTTTTGTAGCCAGTCTGTCCCTGGCCATCCAT  
 GTGATGGTTTTGGATGGAGTTAACTTGATGCCAGTGGGCACTGATGTGAAAGTATCA  
 GAGTAAGGCTCTCCCTCCAGAGCCCTGAGTTTCTTGGCTGCATGAAGGTTTTCTTTAGA  
 ATCAGAATTGTAGCCAGTTTCTTGGCCAGAAGGATGAATACTTGATATTACTGAAAGG  
 GAGGGGTGGAGATGGGTGTGGCAGTGTATGGTGTGTGATTTTTATTTCTTCTTGGTCA  
 TGGGGGCCAAGGAGAAAGGCATGAATCTTCCCTGTGAGGCTTTACAGCCACAGGCACTG  
 TGTCTACTGTCTGGAAGACATGTCCCGTGGCTGTGGGGCCGCTGCTTCTGTTTAAATAA  
 AAGTGGCTGGAAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_014762

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_014762.3](#), [NP\\_055577.1](#)

**RefSeq Size:** 4286 bp

**RefSeq ORF:** 1551 bp

**Locus ID:** 1718

**UniProt ID:** [Q15392](#)

**Cytogenetics:** 1p32.3

**Domains:** FAD\_binding\_4

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transmembrane

**Protein Pathways:** Metabolic pathways, Steroid biosynthesis

**Gene Summary:**

This gene encodes a flavin adenine dinucleotide (FAD)-dependent oxidoreductase which catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis. The protein contains a leader sequence that directs it to the endoplasmic reticulum membrane. Missense mutations in this gene have been associated with desmosterolosis. Also, reduced expression of the gene occurs in the temporal cortex of Alzheimer disease patients and overexpression has been observed in adrenal gland cancer cells. [provided by RefSeq, Jul 2008]