

## Product datasheet for **RG203507**

### Seladin 1 (DHCR24) (NM\_014762) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Seladin 1 (DHCR24) (NM_014762) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Seladin 1
Synonyms:	DCE; Nbla03646; seladin-1; SELADIN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203507 representing NM\_014762  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCCCGCCGTGTCGCTGGCCGTGTCGCGCTGCTCTTCTGCTGTGGGTGCGCCTGAAGGGGCTGG  
 AGTTTCGTGCTCATCCACCAGCGCTGGGTGTTCTGTGCCTCTTCTCCTGCCGCTCTCGTTATCTTCGA  
 TATCTACTACTACGTGCGCGCCTGGGTGGTGTTCAGCTCAGCAGCGCTCCGCGCCTGCACGAGCAGCGC  
 GTGCGGGACATCCAGAAGCAGGTGCGGGAATGGAAGGAGCAGGGTAGCAAGACCTTCATGTGCACGGGGC  
 GCCCTGGCTGGCTCACTGTCTACTACGTGTCGGGAAGTACAAGAAGACACAAAAACATCATGATCAA  
 CCTGATGGACATTCTGGAAGTGGACACCAAGAAACAGATTGTCCGTGTGGAGCCCTTGGTGACCATGGGC  
 CAGGTGACTGCCCTGCTGACCTCCATTGGCTGGACTCTCCCCGTGTGCCTGAGCTTGATGACCTCACAG  
 TGGGGGGCTTGATCATGGGCACAGGCATCGAGTCATCATCCACAAGTACGGCCTGTTCCAACACATCTG  
 CACTGCTTACGAGCTGGTCTGGCTGATGGCAGCTTTGTGCGATGCACTCCGTCGAAAACCTCAGACCTG  
 TTCTATGCCGTACCTGGTCTGTGGGACGCTGGGTTTCTGGTGGCCGCTGAGATCCGCATCATCCCTG  
 CCAAGAAGTACGTCAAGCTGCGTTTCGAGCCAGTGCAGGGCCTGGAGGCTATCTGTGCCAAGTTCACCCA  
 CGAGTCCCAGCGGCAGGAGAACCCTTCGTGGAAGGGCTGCTCTACTCCCTGGATGAGGCTGTCATTATG  
 ACAGGGGTGATGACAGATGAGGCAGAGCCAGCAAGCTGAATAGCATTGGCAATTACTACAAGCCGTGGT  
 TCTTTAAGCATGTGGAGAATACTGAAGACAAACCGAGAGGGCCTGGAGTACATTCCCTTGAGACACTA  
 CTACCACCGCCACACGCGCAGCATCTTCTGGGAGCTCCAGGACATCATCCCTTTGGCAACAACCCCATC  
 TTCCGCTACCTCTTTGGCTGGATGGTGCCTCCCAAGATCTCCCTCCTGAAGCTGACCCAGGGTGAGACCC  
 TGCGCAAGCTGTACGAGCAGCACCAGTGGTGCAGGACATGCTGGTCCCATGAAGTGCCTGCAGCGCC  
 CCTGCACACCTTCCAAAACGACATCCACGTCTACCCCATCTGGCTGTGTCGGTTTCATCCTGCCAGCCAG  
 CCAGGCCTAGTGACCCCAAAGGAAATGAGGCAGAGCTCTACATCGACATTGGAGCATATGGGGAGCCGC  
 GTGTGAAACACTTTGAAGCCAGGTCTGCATGAGGCAGCTGGAGAAGTTTGTCCGACGCTGCATGGCTT  
 CCAGATGCTGTATGCCGACTGCTACATGAACCGGGAGGAGTTCTGGGAGATGTTTGTGCTCCTTGTAC  
 CACAAGCTGCGAGAGAAGCTGGGTTGCCAGGACGCTTCCCCGAGGTGTACGACAAGATCTGCAAGGCC  
 CCAGGCAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG203507 representing NM\_014762  
 Red=Cloning site Green=Tags(s)

MEPAVSLAVCALLFLLWVRLKGLEFVLIHQWVVFVCLFLLPLSLIFDIYYYYVRAWVVFKLSAPRLHEQR  
 VRDIQKQVREWKEQGSKTFMCTGRPGWLVSLRVGKYKTHKNIMINLMDILEVDTKKQIVRVEPLVTMG  
 QVTALLTSIGWTLPVLPDLTVGGLIMGTGIESSSHKYGLFQHICTAYELVLADGSFVRCTPSENSDL  
 FYAVPWSGTLGFLVAAEIRIIPAKKYVKLRFEPVRGLEAICAKFTHEsqRQENHFVEGLLYSLDEAVIM  
 TGVMTDEAEPKLNISIGNYYKPFVKHVENYLKTNREGLEYIPLRHYYHRHRSIFWELQDIIPFGNPI  
 FRYLFGWMVPPKISLLKLQGETLRKLYEQHHVVQDMLVPMKCLQQALHTFQNDIHVYPIWLCPFILPSQ  
 PGLVHPKGNEAELYIDIGAYGEPVKHFEARSCMRQLEKFRVSVHGFQMLYADCYMNRREEFWEMFDGSLY  
 HKLREKLGCDQAFPEVYDKICKAARH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_014762

**ORF Size:** 1548 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\\_014762.1](#)

**RefSeq Size:** 4286 bp

**RefSeq ORF:** 1551 bp

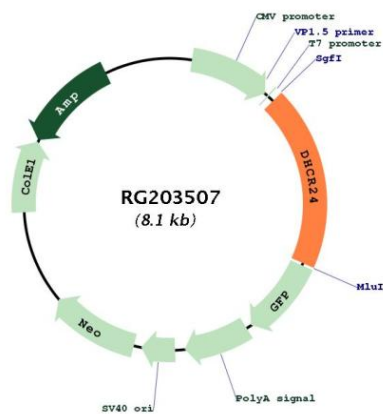
**Locus ID:** 1718

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

**Cytogenetics:** 1p32.3

<b>Domains:</b>	FAD_binding_4
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency, Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Steroid biosynthesis
<b>Gene Summary:</b>	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]

### Product images:



Circular map for RG203507