

Product datasheet for **RC203515**

SDSL (NM_138432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDSL (NM_138432) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SDSL
Synonyms:	cSDH; SDH 2; SDS-RS1; TDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203515 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGCCCTGTGGCAGAGCATGCCAAGCAGGAGCCCTTTCACGTGGTCACACCTCTGTTGGAGAGCT
GGGCGCTGTCCCAGGTGGCGGGCATGCCTGTCTTCCTCAAGTGTGAGAATGTGCAGCCCAGCGGCTCCTT
CAAGATTCGGGGCATTGGGCATTTCTGCCAGGAGATGGCCAAGAAGGGATGCAGACACCTGGTGTGCTCC
TCAGGGGGTAATGCGGGCATCGCTGCTGCCTATGCTGCTAGGAAGCTGGGCATTCTGCCACCATCGTGC
TCCCCGAGAGCACCTCCCTGCAGGTGGTGCAGAGGCTGCAGGGGGAGGGGCGGAGGTTCACTGACTGG
AAAGGTCTGGGACGAGGCCAATCTGAGGGCGCAAGAGTTGGCCAAGAGGGACGGCTGGGAGAATGTCCCC
CCGTTTGACCACCCCTAATATGAAAAGGCCACGCCAGCCTGGTGCAGGAGCTGAAAGCAGTGCTGAGGA
CCCCACCAGGTGCCCTGGTGTGGCAGTTGGGGGTGGGGGTCTCCTGGCCGGGTGGTGGCTGGCCTGCT
GGAGGTGGGTGGCAGCATGTACCCATCATTGCCATGGAGACCATGGGGCAGCTGCTTCAATGCGGCC
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TGGCCGCTCGGGCCCTGGAGTGCATGCAGGTGTGCAAGATTCACTCTGAAGTGGTGGAGGACACCGAGGC
TGTGAGCGCTGTGCAGCAGCTCCTGGATGATGAGCGTATGCTGGTGGAGCCTGCCTGTGGGCAGCCTTA
GCAGCCATCTACTCAGGCCTCCTGCGGAGGCTCCAGGCCGAGGGCTGCCTGCCCCCTTCCCTGACTTCAG
TTGTGGTAATCGTGTGTGGAGGAACAACATCAACAGCCGAGAGCTGCAGGCTTTGAAAACCCACCTGGG
CCAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203515 protein sequence
 Red=Cloning site Green=Tags(s)

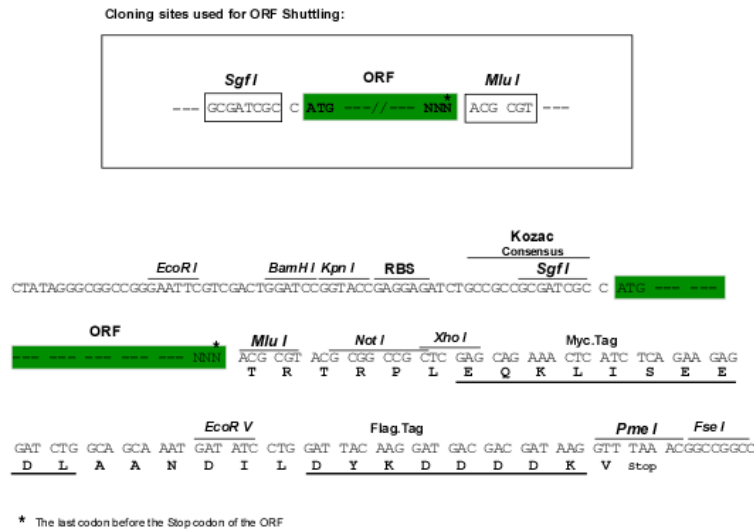
MDGPVAEHAKQEPFHVVTPLLSWALSQVAGMPVFLKCENVQPSGSFKIRGIGHFCQEMAKKGCRHLVCS
 SGGNAGIAAAYAARKLGIPATIVLPESLSLQVVQRLQGEAEVQLTGKVWDEANLRAQELAKRDGWENVP
 PFDHPLIWKGHASLVQELKAVLRTPPGALVLAVGGGGLLAGVVAGLLEVGWQHVPPIAMETHGAHCFNAA
 ITAGKLVTLDPDITSVAKSLGAKTVAARALECMQVCKIHSEVVEDTEAVSAVQQLLDDERMLVEPACGAAL
 AAIYSGLLRRLQAEGCLPPSLTSVVVIVCGGNNINSRELQALKTHLGQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6424_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138432

ORF Size: 987 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_138432.3](#)

RefSeq Size: 1414 bp

RefSeq ORF: 990 bp

Locus ID: 113675

UniProt ID: [Q96GA7](#)

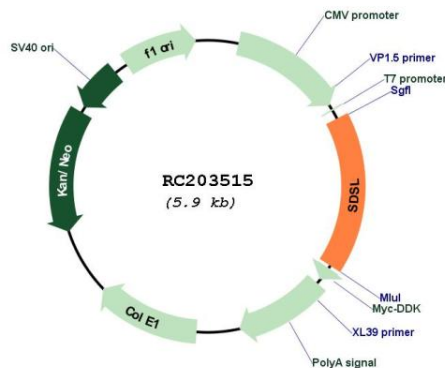
Cytogenetics: 12q24.13

Domains: PALP

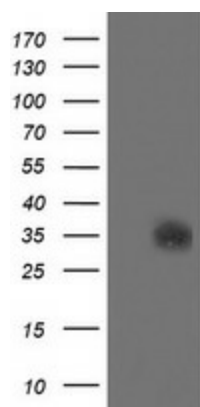
MW: 34.7 kDa

Gene Summary: Has low serine dehydratase and threonine dehydratase activity.[UniProtKB/Swiss-Prot Function]

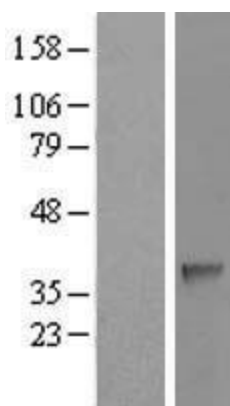
Product images:



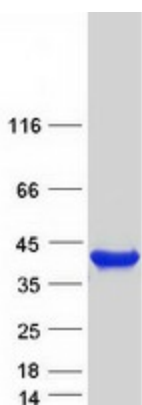
Circular map for RC203515



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SDSL (Cat# RC203515, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SDSL (Cat# [TA505179]). Positive lysates [LY408687] (100ug) and [LC408687] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408687]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SDSL protein (Cat# [TP303515]). The protein was produced from HEK293T cells transfected with SDSL cDNA clone (Cat# RC203515) using MegaTran 2.0 (Cat# [TT210002]).