

Product datasheet for MR204823

Sdsl (NM_133902) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sdsl (NM_133902) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sdsl
Synonyms:	4432411H13Rik; AI504310; SDH1; SDS-RS1; TDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204823 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAGGGGGCCTTGGCAGAACGCGTCGGGGCGGAGCCTTCCACAGGGTCACGCCCTGCTGGAGAGCT
GGGCGTGTCTCAGGTGGCAGGCATGCCGGTCTCCTCAAATATGAGAATGTGCAGATAGCTGGCTCCTT
TAAGATTCGGGGCATCGGACATTTCTGCCAGCAGATGGCCAAGAGGGGATGCAGACATCTGGTGTGCTCC
TCAGGGGGCAATGCGGGCATTGCGGCTGCATACTCGGCTCGTAAGCTGGGCATCCCCGTACCATCGTGC
TCCCAGAGGGCACCTCCGTGCAGGTGGTGGAGCGGCTCGAGGGGAAGGGCCGAGGTCCAGCTGACTGG
GAAAGTCTGGGATGAAGCCAATGTAAAAGCACAAAGAACTGGCCACAAGGGATGGCTGGGTGAACGTCTCC
CCGTTTGACCATCCCCTTATATGGGAAGGCCATGCCAGCCTAGTGCGGGAGCTGAAGGAGTCACTAGGGA
CCCCTCCAGGTGCTGTGGTGTGGCCGTGGGGGCGGAGGGCTCCTGGCAGGTGTGACTGCTGGCCTGCT
GGAGGTGGGCTGGCAGCATGTGCCATCGTTGCCATGGAGACCCGCGGGGCGCACAGTTTCAATTCGGCC
TTGCAGGCAGGCAGGCCGGTACCCTGCCAGACATCACCAGTGTAGCCAAGAGCCTCGGAGCCAAGACGG
TGGCTGCACGGACCTTGAGTGTGCAAAGGAGTGTGAGTCTCTCTGAGGTGGTAGAAGACCGGGAGGC
TGTACGCGCTGTGCAGAGTTCTGGACGATGAGCGCATGCTGGTGAACCTGCCTGCGGTGCCGCCCTG
GCCCATCTACTCGGGCATCCTGTGGAGGCTCCAGGCTGAGGGCCGCTGAGTTCTGCCCTAGCTTCCG
TTGTGGTCACTGTGCCGTGGCAACAACATTAGTAGCCAACAGCTTCAGGAGCTGAAAATCCAGCTGGG
CTGCAGC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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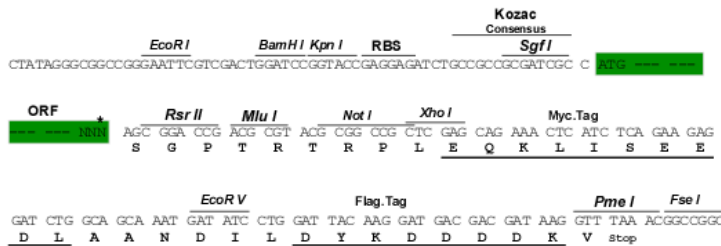
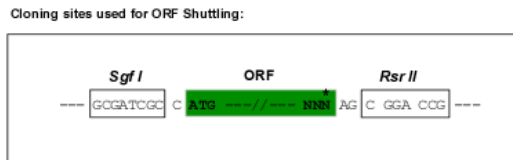
Protein Sequence: >MR204823 protein sequence
 Red=Cloning site Green=Tags(s)

MEGALAERVGAEPFHRVTPLLESWALSQVAGMPVFLKYENVQIAGSFKIRGIGHFCQQMAKRGCRHLVCS
 SGGNAGIAAAYSARKLGIPVTIVLPEGTSVQVRRLEGEAEVQLTGKVVDEANVKAQELATRDGWWNVS
 PFDHPLIWEGHASLVRELKESLGTTPGAVVLA VGGGGLLAGVTAGLLEVGWQHVPVIVAMETRGAHSFNSA
 LQAGRPVTLPDITSVAKSLGAKTVAARTLECAKECEVLSEVVEDREAVSAVQRFLLDDERMLVEPACGAAL
 AAIYSYLWRLQAEGRSSALASVVVIVCGGNNISSQQLQELKIQLGCS

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_133902

ORF Size: 990 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_133902.3](#)

RefSeq Size: 1223 bp

RefSeq ORF: 990 bp

Locus ID: 257635

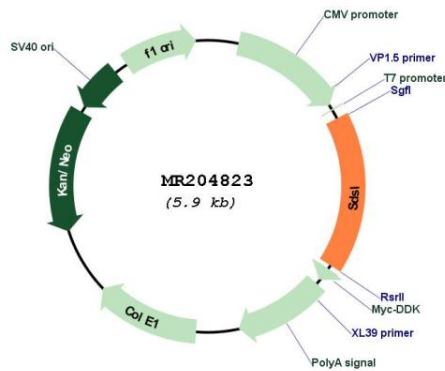
UniProt ID: [Q8R238](#)

Cytogenetics: 5 F

MW: 34.7 kDa

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

Product images:



Circular map for MR204823