

Product datasheet for **RR206422**

Sds (NM_053962) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sds (NM_053962) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sds
Synonyms: RATSDHE1; Sdh; SDH2; Sdhe1; TDH
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206422 representing NM_053962
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCCAGGAGTCCCTGCACGTGAAGACCCACTACGTGACAGCATGGCATTGTCCAAGTGGCCG
 GCACTAGTGTGTTCCCTTAAGATGGACAGCTCTCAGCCCTCTGGCTCCTCAAGATCCGAGGCATTGGCA
 TCTCTGCAAGATGAAGGCAAAACAAGGCTGTAACATTTCTGCTCTCAGCGGGCAACGCGGCATG
 GCGACTGCCTATGCTGCCAGGAGGCTGGCCTCCAGCCACTATTGTTGTGCCAAGCACCACCTGCC
 TCACCATTGAGCGGTGAAGAACGAAGGGGCCACAGTTGAAGTGGTGGGAGAGATGCTGGATGAGGCCAT
 CCAACTGGCCAAGGCTCTGGAAAAGAACAACCCAGGTTGGGTGTACATCTCCCCCTTCGATGACCCTCTC
 ATCTGGGAAGGCCACACTTCCCTTGTGAAGGAGCTGAAGGAGACTGAGCGCAAGCCCGGGCCATTG
 TGCTGTCTGTGGCGGTGGAGGCCTGCTGTGCGGAGTGGTCCAGGGGCTGCGGGAGGTGGCTGGGAGGA
 TGTGCCCATCATCGCCATGGAGACCTTCGGCGCCACAGCTTCCACGCTGCCGTAAGGAAGGAAAGCTG
 GTCACCCTGCCAAGATCACCAGTGTGCAAGGCCTTGGGTGTAACACTGTGGGGCAGACACCTGA
 AGCTGTTTTACGAACACCCATTTCTCTGAGGTCATCTCAGACCAGGAGGCTGTACTGCTATCGAGAA
 GTTCGTAGACGATGAGAAGATCCTGGTGGAGCCGCGTGTGGCGTGCCTGGCTGCAGTGTACAGCGGT
 GTGGTGTGCAAGGCTGAGGCTGAGGGCCGACTGCAAACCCACTGGCCTCGCTGTTGTCTATTGTGTG
 GTGGCAGCAACATCAGCCTGGCAGACTGCAGGCACTCAAGGCACAGCTGGCCTGAATGAGCTACTCAA
 G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206422 representing NM_053962
 Red=Cloning site Green=Tags(s)

MAAQESLHVKTPLRDSMALSKVAGTSVFLKMDSSQPSGSFKIRGIGHLCKMKAKQGCKHFVCSAGNAGM
 ATAYAARRLGLPATIVPSTTPALTIERLKNEGATVEVVGEMLDEAIQLAKALEKNNPGWVYIISPFDDPL
 IWEGHTSLVKELKETLSAKPGAIVLSVGGGGLLCGVVQGLREVGWEDVPIIAMETFGAHSFHAAVKEGKL
 VTLPKITSVAKALGVNTVGAQTLKLFYEHPIFSEVISDQEAVTAIEKFDVDEKILVEPACGAALAAVYSG
 VVCRQLQAEGRLLQPLASLVVIVCGGSNISLAQLQALKAQLGLNELLK

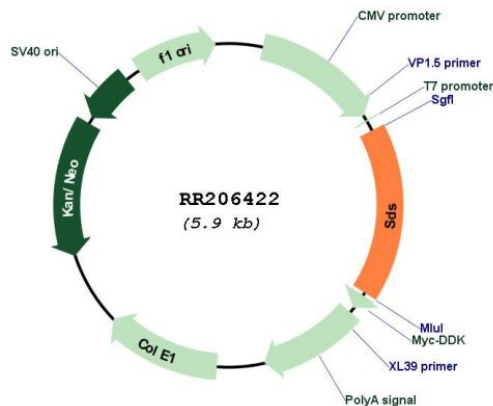
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053962

ORF Size: 981 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:	<ol style="list-style-type: none"> 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_053962.3 , NP_446414.3
RefSeq Size:	1296 bp
RefSeq ORF:	984 bp
Locus ID:	25044
UniProt ID:	P09367
Cytogenetics:	12q16
MW:	34.5 kDa
Gene Summary:	enzyme that converts L-serine to pyruvate and ammonia; involved in gluconeogenesis [RGD, Feb 2006]