

Product datasheet for **RC217814**

SDS (NM_006843) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SDS (NM_006843) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SDS
Synonyms: SDH
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC217814 representing NM_006843
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTCTGGAGAACCCTGCACGTGAAGACCCCATCCGTGACAGCATGGCCCTGTCCAAATGGCCG
GCACCAGCGTCTACCTCAAGATGGACAGTGCCAGCCCTCCGGCTCCTTCAAGATCCGGGGCATTGGGCA
CTTCTGCAAGAGGTGGGCAAGCAAGGCTGTGCACATTTGTCTGCTCCTCGGCGGGCAACGCAGGCATG
GCGGCTGCATATGCGGCCAGGCAACTCGGCGTCCCGCCACCATCGTGGTGCCAGCACCACACCTGCTC
TCACCATTGAGCGCCTCAAGAATGAAGGTGCCACAGTCAAGGTGGTGGGTGAGTTATTGGATGAAGCCTT
CGAGCTGGCCAAGGCCCTAGCGAAGAACAACCCGGTTGGGTCTACATTCGCCCTTTGATGACCCCTC
ATCTGGGAAGGCCACGCTTCCATCGTGAAAGAGCTGAAGGAGACTGTGGGAAAAGCCGGGGGCCATCG
CGCTGTCAAGTGGGCGGGGGGCTGTGTGTGGAGTGGTCCAGGGGCTGCAGGAGTGGGCTGGGGGA
CGTGCCTGTATCGCCATGGAGACTTTTGGTGCCACAGCTTCCACGCTGCCACCACCGCAGGCAAACCTT
GTCTCCCTGCCAAGATCACCAGTGTGGCAAGGCCCTGGGCGTGAAGACTGTGGGGCTCAGGCCCTGA
AGCTGTTTCAGGAACACCCATTTCTCTGAAGTTATCTCGGACCAGGAGGCTGTGGCCGCAATTGAGAA
GTTTCGTGGATGATGAGAAGATCCTGGTGGAGCCCGCTGCGGGGAGCCCTGGCCGCTGTCTATAGCCAC
GTGATCCAGAAGCTCAACTGGAGGGGAATCTCCGAACCCGCTGCCATCCCTCGTGGTCACTCGTCTGCG
GGGGCAGCAACATCAGCCTGGCCAGCTGCGGGCGCTCAAGGAACAGCTGGGCATGACAAATAGGTTGCC
CAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_006843.3](#)

RefSeq Size: 1620 bp

RefSeq ORF: 987 bp

Locus ID: 10993

UniProt ID: [P20132](#)

Cytogenetics: 12q24.13

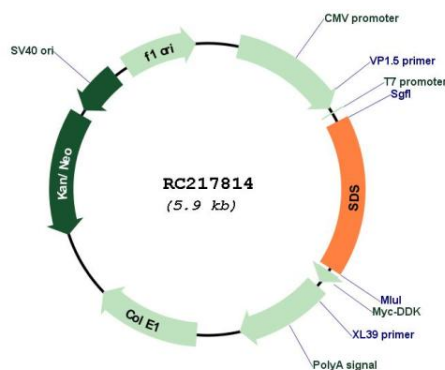
Domains: PALP

Protein Pathways: Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways

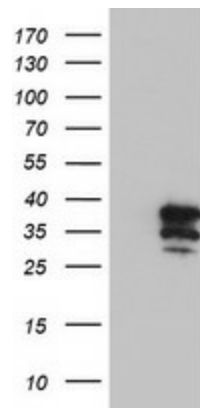
MW: 34.4 kDa

Gene Summary: This gene encodes one of three enzymes that are involved in metabolizing serine and glycine. L-serine dehydratase converts L-serine to pyruvate and ammonia and requires pyridoxal phosphate as a cofactor. The encoded protein can also metabolize threonine to NH₄⁺ and 2-ketobutyrate. The encoded protein is found predominantly in the liver. [provided by RefSeq, Jul 2008]

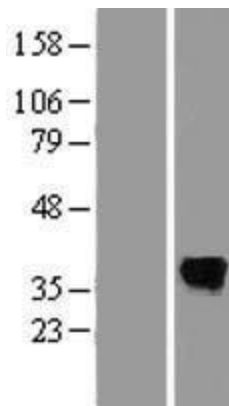
Product images:



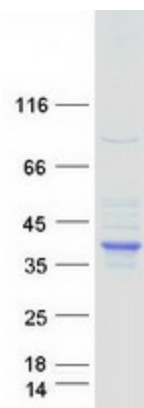
Circular map for RC217814



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SDS (Cat# RC217814, 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-SDS (Cat# [TA503943]). Positive lysates [LY416388] (100ug) and [LC416388] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416388]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217814 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SDS protein (Cat# [TP317814]). The protein was produced from HEK293T cells transfected with SDS cDNA clone (Cat# RC217814) using MegaTran 2.0 (Cat# [TT210002]).