

Product datasheet for **RG203515**

SDSL (NM_138432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SDSL (NM_138432) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SDSL
Synonyms:	cSDH; SDH 2; SDS-RS1; TDH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203515 representing NM_138432 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGGCCCTGTGGCAGAGCATGCCAAGCAGGAGCCCTTTCACGTGGTCACACCTCTGTTGGAGAGCT
 GGGCGCTGTCCCAGGTGGCGGGCATGCCTGTCTTCCTCAAGTGTGAGAATGTGCAGCCCAGCGGCTCCTT
 CAAGATTCGGGGCATTGGGCATTTCTGCCAGGAGATGGCCAAGAAGGGATGCAGACACCTGGTGTGCTCC
 TCAGGGGGTAATGCGGGCATCGCTGCTGCCTATGCTGCTAGGAAGCTGGGCATTCTGCCACCATCGTGC
 TCCCCGAGAGCACCTCCCTGCAGGTGGTGCAGAGGCTGCAGGGGGAGGGGCGGAGTTTCAGCTGACTGG
 AAAGGTCTGGGACGAGGCCAATCTGAGGGCGCAAGAGTTGGCCAAGAGGGACGGCTGGGAGAATGTCCCC
 CCGTTTGACCACCCCTAATATGAAAAGGCCACGCCAGCCTGGTGCAGGAGCTGAAAGCAGTGCTGAGGA
 CCCCACCAAGTGCCCTGGTGTGGCAGTTGGGGGTGGGGGTCTCCTGGCCGGGGTGGTGGCTGGCCTGCT
 GGAGGTGGGTGGCAGCATGTACCCATCATTGCCATGGAGACCATGGGGCAGCTGCTTCAATGCGGCC
 ATCACAGCCGGCAAGCTGGTCACACTTCCAGACATCACCAGTGTGGCCAAGAGCCTGGGTGCCAAGACGG
 TGGCCGCTCGGGCCCTGGAGTGCATGCAGGTGTGCAAGATTCACCTGAAGTGGTGGAGGACACCGAGGC
 TGTGAGCGCTGTGCAGCAGCTCCTGGATGATGAGCGTATGCTGGTGGAGCCTGCCTGTGGGCAGCCTTA
 GCAGCCATCTACTCAGGCCTCCTGCGGAGGCTCCAGGCCGAGGGCTGCCTGCCCCCTTCCCTGACTTCAG
 TTGTGGTAATCGTGTGTGGAGGAACAACATCAACAGCCGAGAGCTGCAGGCTTTGAAAACCCACCTGGG
 CCAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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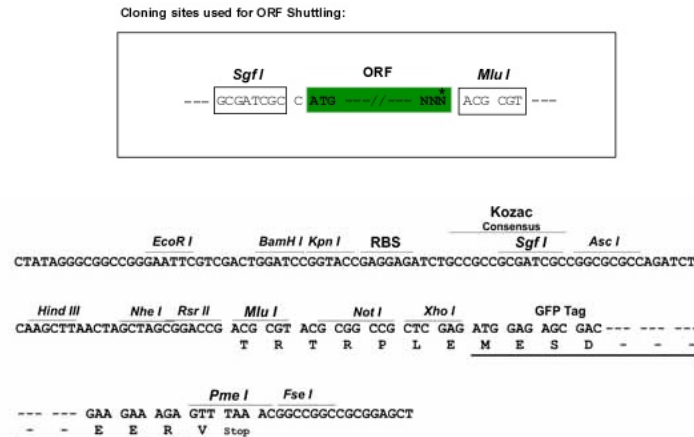
Protein Sequence: >RG203515 representing NM_138432
 Red=Cloning site Green=Tags(s)

MDGPVAEHAKQEPFHVVTPLLSWALSQVAGMPVFLKCENVQPSGSFKIRGIGHFCQEMAKKGCRHLVCS
 SGGNAGIAAAYAARKLGIPATIVLPSTSLQVVQRLQGEAEVQLTGKVDANLRAQELAKRDGWENVP
 PFDHPLIWKGHASLVQELKAVLRTPPGALVLAVGGGGLLAGVVAGLLEVGWQHVPPIAMETHGAHCFNAA
 ITAGKLVTLDPDITSVAKSLGAKTVAARALECMQVCKIHSEVVEDTEAVSAVQQLLDDERMLVEPACGAAL
 AAIYSGLLRRLQAEGLPPSLTSVVIVCGGNNINSRELQALKTHLGQV

TRTRPLE – GFP Tag – V

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

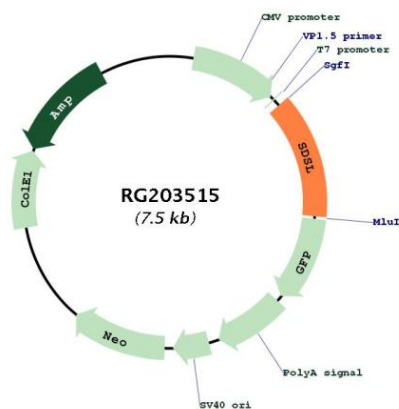
UniProt ID: [Q96GA7](#)

Cytogenetics: 12q24.13

Domains: PALP

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

Product images:



Circular map for RG203515