

Product datasheet for RC210663

HSDL2 (NM_032303) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSDL2 (NM_032303) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSDL2
Synonyms:	C9orf99; SDR13C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210663 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTACCCAACACCGGGAGGCTGGCAGGATGTACAGTTTTTATCACAGGTGCAAGCCGTGGCATTGGCA
AAGCTATTGCATTGAAAGCAGCAAAGGATGGAGCAAATATTGTTATTGCTGCAAAGACCGCCAGCCACA
TCCAAACTTCTAGGCACAATCTATACTGCTGCTGAAGAAATTGAAGCAGTTGGAGGAAAGCCCTTGCCA
TGTATTGTTGATGTGAGAGATGAACAGCAGATCAGTGTGCAAGTGGAGAAAGCCATCAAGAAATTTGGAG
GAATTGATATTCTGGTAAATAATGCCAGTGCCATTAGTTTGACCAATACATTGGACACACCTACCAAGAG
ATTGGATCTGATGATGAACGTGAACACCAGAGGCACCTACCTTGATCTAAAGCATGTATTCCCTTATTTG
AAAAGAGCAAAGTTGCTCATATCCTCAATATCAGTCCACCCTGAACCTAAATCCAGTTTGGTTCAAAC
AGCACTGTGCTTATACCATTGCTAAGTATGGTATGTCTATGTATGTGCTTGGAAATGGCAGAAGAATTTAA
AGGTGAAATTGCAGTCAATGCATTATGGCCTAAAACAGCCATACACACTGCTGCTATGGATATGCTGGGA
GGACCTGGTATCGAAAGCCAGTGTAGAAAAGTTGATATCATTGCAGATGCAGCATATTCCATTTTCCAAA
AGCCAAAAGTTTACTGGCAACTTTGTCATTGATGAAAATATCTTAAAAGAAGAAGGAATAGAAAATTT
TGACGTTTATGCAATTAACAGGTATCCTTTGCAACCAGATTTCTTCTTAGATGAATACCCAGAAGCA
GTTAGCAAGAAAGTGAATCAACTGGTGTGTTCCAGAATCAAAGAAGAGAACTGCAGCTGCAACCA
AACCACGTTCTGGAGCTGTGGAAGAAACATTTAGAATTGTTAAGGACTCTCTCAGTGATGATGTTGTTAA
AGCCACTCAAGCAATCTATCTGTTTGAACCTCTCCGGTGAAGATGGTGGCACGTGGTTTCTTGATCTGAAA
AGCAAGGGTGGGAATGTCGGATATGGAGAGCCTTCTGATCAGGCAGATGTGGTATGAGTATGACTACTG
ATGACTTTGTAATAATGTTTTAGGAACTAAAACCAACAATGGCATTATGTCAGGAAATTTGAAGAT
TAAAGGTAACATGGCCCTAGCAATCAAATTTGGAGAAGCTAATGAATCAGATGAATGCCAGACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210663 protein sequence
Red=Cloning site Green=Tags(s)

MLPNTGRLAGCTVFITGASRGIGKAIALKAAKDGANIVIAAKTAQPHPKLLGTIYTAAEEIEAVGGKALP
 CIVDVRDEQQISA AVEKAIAKKFGGIDILVNNASAI SLTNTLDTPTKRLDLMMNVNTRGTYLASKACIPYL
 KKSVAHILNISPPLNLPVWFKQHCA YTI AKYGMSMYVLGMAEEFKGEIAVNALWPKTAIHTAAMDMLG
 GPGIESQCRKVDIIADAAYSIFQKPKSFTGNFVIDENILKEEGIENFDVYAIKPGHPLQPDFFLDEYPEA
 VSKKVESTGAVPEFKEEKLQLQPKPRSGAVEETFRI VKDSLSDDDVVKATQAIYLFELSGEDGGTWFLDLK
 SKGGNVGYGEPDQADVMSMTTDDFVKMFSGKLPKPTMAFMSGKLIKGNMALAIKLEKLMNQMNARL

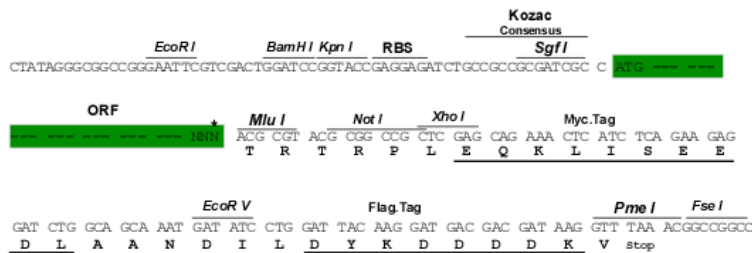
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6780_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_032303

ORF Size: 1254 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_032303.5](#)

RefSeq Size: 3393 bp

RefSeq ORF: 1257 bp

Locus ID: 84263

UniProt ID: [Q6YN16](#)

Cytogenetics: 9q32

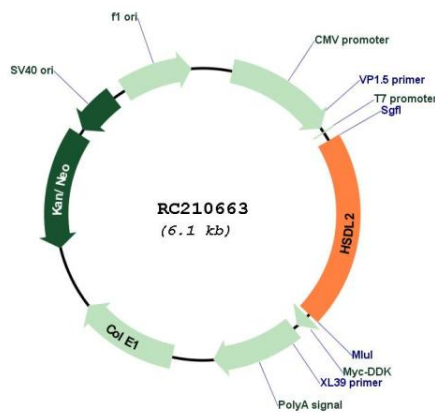
Domains: SCP2

Protein Families: Druggable Genome

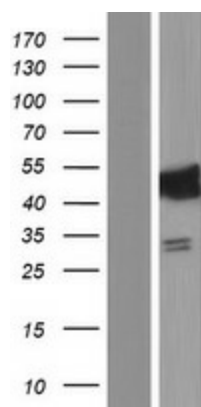
MW: 45.4 kDa

Gene Summary: Has apparently no steroid dehydrogenase activity.[UniProtKB/Swiss-Prot Function]

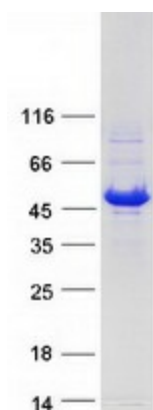
Product images:



Circular map for RC210663



Western blot validation of overexpression lysate (Cat# [LY410245]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210663 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HSDL2 protein (Cat# [TP310663]). The protein was produced from HEK293T cells transfected with HSDL2 cDNA clone (Cat# RC210663) using MegaTran 2.0 (Cat# [TT210002]).