

Product datasheet for **RG205540**

HSDL1 (NM_031463) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	HSDL1
Synonyms:	SDRI2C3
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205540 representing NM_031463
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCTGCTGTTGACAGTTTCTACCTCTTGACAGGAAATCGCCAGGTCTTGAATTGCTATATGGAAG
CTCTAGCTTTGGTTGGAGCCTGGTATACGGCCAGAAAAAGCATCACTGTCATCTGTGACTTTTACAGCCT
GATCAGGCTGCAATTTATCCCCCGCTGGGAGCAGAGCAGACTTGATCAAGCAGTATGGAAGATGGGCC
GTTGTCAGCGGTGCAACAGATGGGATTGAAAAGCCTACGCTGAAGAGTTAGCAAGCCGAGGTCTCAATA
TAATCCTGATTAGTCGGAACGAGGAGAAAGTTGCAGTTGTTGCTAAAGACATAGCCGACACGTACAAAGT
GGAAACTGATATTATAGTTGCGGACTTCAGCAGCGGTCTGAGATCTACCTTCCAATTCGAGAAGCCCTG
AAGGACAAAGACGTTGGCATCTTGGTAAATAACGTGGGTGTGTTTTATCCCTACCCGAGTATTTCACTC
AGCTGTCCGAGGACAAGCTCTGGGACATCATAAATGTGAACATTGCCGCCGCTAGTTTGATGGTCCATGT
TGTGTTACCGGAATGGTGGAGAGAAAGAAAGTGCCATCGTCACGATCTCTTCTGGCTCCTGCTGCAAA
CCCACCTCCTCAGCTGGCTGCATTTTCTGCTTCTAAGGCTTATTTAGACCACTTCAGCAGAGCCTTGAAT
ATGAATATGCCTCTAAAGGAATCTTTGTACAGAGTCTAATCCCTTTCTATGTAGCCGCCAGCATGACAGC
ACCCAGCAACTTTCTGCACAGGTGCTCGTGGTTGGTGCCTTCGCCAAAAGTCTATGCACATCATGCTGTT
TCTACTCTTGGGATTTCCAAAAGGACCACAGGATATTGGTCCATTCTATTAGTTTCTTTTGGCAGAT
ATATGCCTGAATGGCTCTGGGTGTGGGAGCAAATATTCTCAACCGTTCACTACGTAAGGAAGCCTTATC
CTGCACAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205540 representing NM_031463
Red=Cloning site Green=Tags(s)

MAAVDSFYLLYREIARSCNCYMEALALVGAWYTARKSITVICDFYSLIRLHFIPRLGSRADLIKQYGRWA
VYSGATDGIGKAYAEELASRLNIILISRNEEKLVVAKDIADTYKVETDIIVADFSSGREIYLPREAL
KDKDVGILVNNVGVFYPYPQYFTQLSEDKLWDIINVNIAAASLMVHVLPGMVERKKGAIVTISSGSCCK
PTPQLAAFSASKAYLDHFSRALQYAYASKGIFVQSLIPFYVAASMTAPSNFLHRC SWLVSPK VYAHAV
STLGISKRTTGYSHSIQFLFAQYMPWLWWGANILNRSRKEALSCTA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_031463

ORF Size: 990 bp

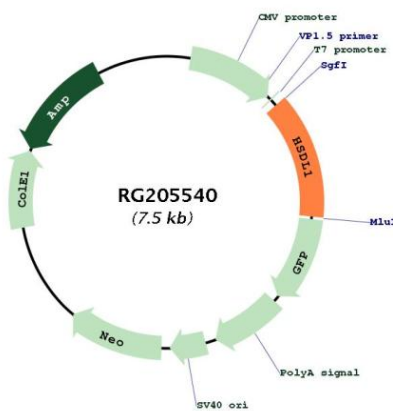
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_031463.3 , NP_113651.3
RefSeq Size:	3488 bp
RefSeq ORF:	993 bp
Locus ID:	83693
UniProt ID:	Q3SXM5
Cytogenetics:	16q24.1
Domains:	adh_short
Protein Families:	Druggable Genome

Product images:



Circular map for RG205540