

Product datasheet for RC227656

DHRS1 (NM_001136050) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS1 (NM_001136050) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHRS1
Synonyms:	SDR19C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC227656 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCAGCTCCCATGAATGGCCAAGTGTGTGGTGACTGGTGCCTCCAGGGGTATTGGCCGTGGCATTG
 CCTTGACGCTCTGCAAAGCAGGCGCCACAGTTTACATCACTGGCCGCCATCTGGACACCCTTCGCGTTGT
 TGCTCAGGAGGCACAATCCCTCGGGGGCCAATGTGTGCCTGTGGTGTGCGATTCAAGCCAGGAGAGTGAA
 GTGCGAAGCCTGTTTGAGCAAGTGGATCGGGAACAGCAAGGGCGTCTAGATGTGCTGGTCAACAATGCTT
 ATGCAGGGGTCCAGACGATCCTGAACACCAGGAATAAGGCATTCTGGGAAACCCCTGCCTCCATGTGGGA
 TGATATCAACAACGTCGGACTCAGAGGCCACTACTTTTGCTCAGTGTATGGGGCACGGCTGATGGTACCA
 GCTGGCCAGGGGCTCATCGTGGTCATCTCTCCCCAGGAAGCCTGCAGTATATGTTCAATGTCTCTATG
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 CTGTGTGTCTCTGTGGCCGGGGATTGTGCAGACAGAACTGCTGAAGGAGCATATGGCAAAGGAGGAGGTC
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 AATGTGTGGTGGCTTTGGCAACAGATCCCAATATCCTGAGCCTGAGTGGTAAGGTGCTGCCATCCTGTGA
 CCTTGCTCGACGCTATGGCCTTCGGGATGTGGACGGCCGCCCGTCCAAGACTATTTGTCTTTGAGCTCT
 GTTCTCTCACAGTGTCCGGCTGGGCTGGCTGGCTCCTACCTGCCCTCCTTCTCCGTGTGCCAAGT
 GGATTATTGCCCTCTACACTAGCAAGTTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC227656 protein sequence
 Red=Cloning site Green=Tags(s)

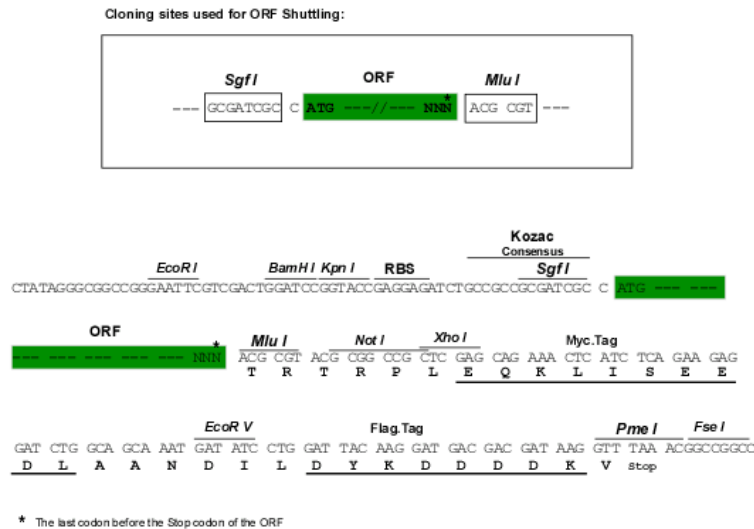
MAAPMNGQVCVVTGASRGIGRGIALQLCKAGATVYITGRHLDLTVVAQEAQSLGGQCVPVVCDSSQSE
 VRSLFEQVDREQGRLDVLVNNAYAGVQITLNRNKAFTWETPASMWDDINNVGLRGHYFCSVYGARLMVP
 AGQGLIVVISSPGSLQYMFNVL YGVGKAACDKLAADCAHELRRHGVSCVSLWPGIVQTELLKEHMAKEEV
 LQDPVLKQFKSAFSSAETTELSGKCVVALATDPNILLSGKVLPSCDLARRYGLRDVDGRPVQDYLSLSS
 VLSHVSLGLWLASYLPSFLRVPKWIIALYTSKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6432_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136050

ORF Size: 939 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_001136050.3](#)

RefSeq Size: 1495 bp

RefSeq ORF: 942 bp

Locus ID: 115817

UniProt ID: [Q96LJ7](#)

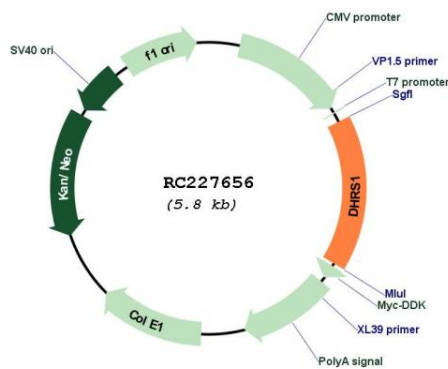
Cytogenetics: 14q12

Protein Families: Druggable Genome

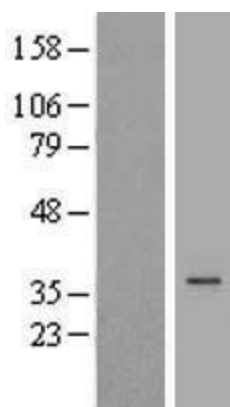
MW: 33.9 kDa

Gene Summary: This gene encodes a member of the short-chain dehydrogenases/reductases (SDR) family. The encoded enzyme contains a conserved catalytic domain and likely functions as an oxidoreductase. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2008]

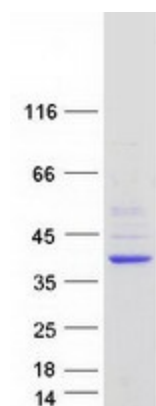
Product images:



Circular map for RC227656



Western blot validation of overexpression lysate (Cat# [LY427794]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227656 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHRS1 protein (Cat# [TP327656]). The protein was produced from HEK293T cells transfected with DHRS1 cDNA clone (Cat# RC227656) using MegaTran 2.0 (Cat# [TT210002]).