OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC226995

HSD3B7 (NM_001142778) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD3B7 (NM_001142778) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSD3B7
Synonyms:	CBAS1; PFIC4; SDR11E3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226995 representing NM_001142778 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCGACTCTGCACAGGCCCAGAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCCTGGGAGAGC ACGTGGTGCGAATGCTGCTGCAGCGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACACCTGGG TCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTGACTGCCATCCAGGGGGACGTGACCCAGGCC CATGAGGTGGCAGCAGCTGTGGCCGGAGCCCATGTGGTCATCCACACGGCTGGGCTGGTAGACGTGTTTG GCAGGGCCAGTCCCAAGACCATCCATGAGGTCAACGTGCAGGGTACCCGGAACGTGATCGAGGCTTGTGT GCAGACCGGAACACGGTTCCTGGTCTACACCAGCAGCATGGAAGTTGTGGGGCCTAACACCAAAGGTCAC CCCTTCTACAGGGGCAACGAAGACACCCCATACGAAGCAGTGCACAGGCACCCCTATCCTTGCAGCAAGG CCCTGGCCGAGTGGCTGGTCCTGGAGGCCAACGGGAGGAAGGCAATGTTGCCTGGATGCACGTGCTGGCA GCCCGGGAGCTGGAGCAGCGGGCAACCC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC226995 representing NM_001142778 Red=Cloning site Green=Tags(s) MADSAQAQKLVYLVTGGCGFLGEHVVRMLLQREPRLGELRVFDQHLGPWLEELKTGPVRVTAIQGDVTQA HEVAAAVAGAHVVIHTAGLVDVFGRASPKTIHEVNVQGTRNVIEACVQTGTRFLVYTSSMEVVGPNTKGH PFYRGNEDTPYEAVHRHPYPCSKALAEWLVLEANGRKAMLPGCTCWQPGSWSSGQP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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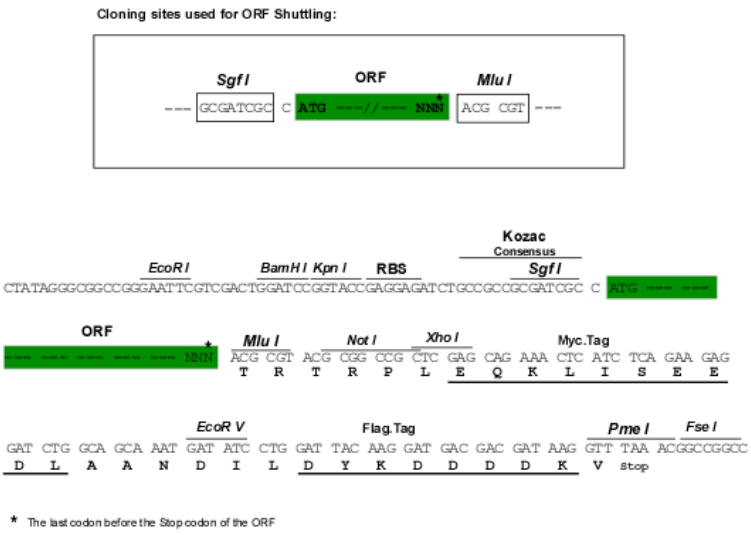
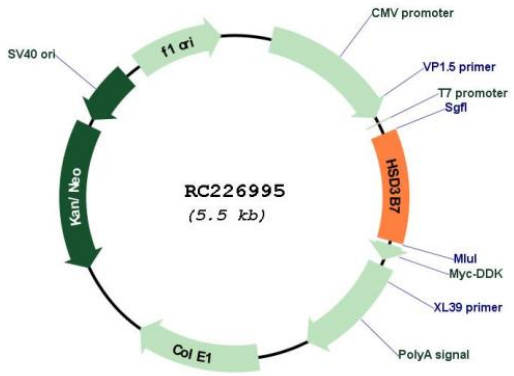
Cloning Scheme:



Plasmid Map:



ACCN:	NM_001142778
ORF Size:	588 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.
RefSeq:	NM_001142778.2
RefSeq ORF:	591 bp
Locus ID:	80270
UniProt ID:	Q9H2F3
Cytogenetics:	16p11.2
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Primary bile acid biosynthesis
MW:	21.1 kDa
Gene Summary:	This gene encodes an enzyme which is involved in the initial stages of the synthesis of bile acids from cholesterol and a member of the short-chain dehydrogenase/reductase superfamily. The encoded protein is a membrane-associated endoplasmic reticulum protein which is active against 7-alpha hydrosylated sterol substrates. Mutations in this gene are associated with a congenital bile acid synthesis defect which leads to neonatal cholestasis, a form of progressive liver disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]