

Product datasheet for **RG226995**

HSD3B7 (NM_001142778) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSD3B7 (NM_001142778) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HSD3B7
Synonyms: CBAS1; PFIC4; SDR11E3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG226995 representing NM_001142778
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGACTCTGCACAGGCCAGAAAGCTGGTGTACCTGGTCACAGGGGGCTGTGGCTTCTCTGGGAGAGC
 ACGTGGTGCAGATGCTGCTGCAGCGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACACCTGGG
 TCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTACTGCCATCCAGGGGACGTGACCCAGGCC
 CATGAGGTGGCAGCAGCTGTGGCCGAGCCCATGTGGTCATCCACACGGCTGGGCTGGTAGACGTGTTT
 GCAGGGCCAGTCCAAGACCATCCATGAGGTCAACGTGCAGGGTACCCGGAACGTGATCGAGGCTTGTGT
 GCAGACCGGAACACGGTTCTGTGCTACACCAGCAGCATGGAAGTTGTGGGCCTAACACCAAAGGTCAC
 CCCTTCTACAGGGCAACGAAGACACCCATACGAAGCAGTGCACAGGCACCCCTATCCTTGCAGCAAGG
 CCCTGGCCGAGTGGCTGGTCTGTGGAGGCCAACGGGAGGAAGGCAATGTTGCCTGGATGCACGTGCTGGCA
 GCCCGGGAGCTGGAGCAGCGGGCAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226995 representing NM_001142778
 Red=Cloning site Green=Tags(s)

MADSAQAQKLVYLVTTGGCGFLGEHVVRMLLQREPRLGELRVFDQHLGPWLEELKTGPVVRTAIQGDVDTQA
 HEVAAAAGAHVVIHTAGLVDVFGRA SPKTIHEVNVQTRNVEACVQTGTRFLVYTSMEVVGPNTKGH
 PFYRGNEPTPYEAVHRHPYPCSKALAEWLVL EANGRKAMLPGCTCWQPGSWSSGQP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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 Size: 2040 bp

RefSeq ORF: 591 bp

Locus ID: 80270

UniProt ID: [Q9H2F3](#)

Cytogenetics: 16p11.2

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Primary bile acid biosynthesis

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 hydroxylated 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]