

Product datasheet for SC110313

HSD3B7 (NM_025193) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD3B7 (NM_025193) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSD3B7
Synonyms:	CBAS1; PFIC4; SDR11E3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110313 sequence for NM_025193 edited (data generated by NextGen Sequencing)

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ATGGCCGACTCTGCACAGGCCAGGCTGGTGTACCTGGTACAGGGGGCTGTGGCTTC
CTGGGAGAGCACGTGGTGCGAATGCTGCTGCAGCGGGAGCCCGCTCGGGGAGCTGCGG
GTCTTTGACCAACACCTGGGTCCCTGGCTGGAGGAGCTGAAGACAGGGCCTGTGAGGGTG
ACTGCCATCCAGGGGGACGTGACCCAGGCCATGAGGTGGCAGCAGCTGTGGCCGGAGCC
CATGTGGTCATCCACACGGCTGGGCTGGTACAGCTGTTTGGCAGGGCCAGTCCCAAGACC
ATCCATGAGGTCAACGTGCAGGGTACCCGGAACGTGATCGAGGCTTGTGTGCAGACCGGA
ACACGGTTCCTGGTCTACACCAGCAGCATGGAAGTTGTGGGGCCTAACACCAAAGGTCAC
CCCTTCTACAGGGGCAACGAAGACACCCATACGAAGCAGTGCACAGGCCACCCCTATCCT
TGCAGCAAGGCCCTGGCCGAGTGGCTGGTCTGGAGGCAACGGGAGGAAGGTCCGTGGG
GGGCTGCCCTGGTGACGTGTGCCCTTCGTCCCACGGGCATCTACGGTGAAGGCCACCAG
ATCATGAGGGACTTCTACCGCCAGGGCCTGCGCCTGGGAGGTTGGCTCTTCCGGGCCATC
CCGGCCTCTGTGGAGCATGGCCGGGTCTATGTGGGCAATGTTGCCTGGATGCACGTGCTG
GCAGCCCGGGAGCTGGAGCAGCGGGCAGCCCTGATGGCGGCCAGGTATACTTCTGCTAC
GATGGATACCCTACAGGAGCTACGAGGATTTCAACATGGAGTTCCTGGGCCCTGCGGA
CTGCGGCTGGTGGGCGCCCGCCATTGCTGCCCTACTGGCTGCTGGTGTCTCTGGCTGCC
CTCAATGCCCTGCTGCAGTGGCTGCTGCGGCCACTGGTGTCTACGCACCCTGCTGAAC
CCCTACACGCTGGCCGTGGCCAACACCACCTTCACCGTCAGCACCGACAAGGCTCAGCGC
CATTTTCGGCTATGAGCCCTGTTCTCGTGGGAGGATAGCCGGACCCGCACCATTCTCTGG
GTACAGGCCGCTACGGGTTACAGCCAGTGA

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Clone variation with respect to NM_025193.3
748 a=>g;1068 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_025193 unedited
 ATTATGTATACGACTCACTATAGGGCGGCNCGGAATCGGCACCAGGAGGCCCTCCAGG
 CCAAGTCTGGGCACCCTGGGATAGCGGCTGCAGCCATCAGCAGGGGACAGCGGAGGTGGC
 CTGGTTGCTGCAGCTCCCAGGATCAGCTCTGCCCTCCCGCAAACGCCAGCCTCGTCACC
 GCTCCAGGGCACCTCCAGCAGTAACAGGTGGTTGCAGCAGGTGGCAGCCAGCCCCCTGGAT
 GAGCCAAGGTCTCTTCCCAGCCAGGCATGGCCGACTCTGCACAGGCCCAGAAGTGGTG
 TACCTGGTCACAGGGGGCTGTGGCTTCTGGGAGAGCACGTGGTGCGAATGCTGCTGCAG
 CGGGAGCCCCGGCTCGGGGAGCTGCGGGTCTTTGACCAACACCTGGGTCCCTGGCTGGAG
 GAGCTGAAGACAGGGCCTGTGAGGGTACTGCCATCCAGGGGGACGTGACCCAGGCCAT
 GAGGTGGCAGCAGCTGTGGCCGGAGCCCATGTGGTCATCCACACGGCTGGGCTGGTAGAC
 GTGTTTGGCAGGGCCAGTCCAAGACCATCCATGAGGTCAACGTGCAGGGTACCCGGAAC
 GTGATCGAGGCTTGTGTGCAGACCGGAACACGGTTCCTGGTCTACACCAGCAGCATGGAA
 GTTGTGGGGCCTAACACCAAAGGTACCCCTTCTACAGGGCAACGAAGACACCCATAC
 GAAGCAGTGCACAGGCACCCCTATCCTTGCAGCAAGGCCCTGGCCGAGTGGCTGGTCTG
 GAGGCCACGGGAGGAAGTCCGTGGNGGGCTGCCCTGGTGACGTGTGCCTTTCGTCCCA
 CGGCATCTACGGTGAAGGCCACCAGATCATGAGNACTNCTACCGCCAGGNCCTGCGCCT
 GGGAGGNTGGCTCTTCGGNCCATCCNGNCTCTGTGGACATGGCCGGTCTAGTGGGCATGT
 GCCTGGAGCACTGCTGCACCCGGAATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_025193 unedited
 NGGGGNNNNNNNNNNNNNTTTTNNNNNNANNNTAATCTNTGNNACGGNCCGCATTT
 NANGATCGAGNNNTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTGGGGATGAAGGT
 TTTAAACCGGGTCAACCAGGTACAACATTGGGGACATCCCCAGCCCAAGGCTGGCGAT
 GTGCTGGGAAGGAATTAAGTAAAAAGGGGGAAGTAAAAACATAAAGAGGCCCTAACCC
 TCCAAAGGGGAATTTTAAACAAACAGTTGAAGGGGAGGCCTTTGAAAAAATGGGAAC
 ATCACCTCCAAAAAGGGACTGAGGGGGCTGGAGGAACAAAACCGCCTTTGCACCTTTGC
 ACCGAGGGTCCCGTGTGGCTGTCAAGAAAAACAGTAAGCCTGTGGAGCCTCTGGTGCCT
 TTCTGCTCAAAAAGCCAAAAGAAAAGTGGGGCAGGCCACCAGGGCACAAAACACTTACCA
 AGCGGGCATTANGACTGGGATGAGAGGACAGAGGAAGGACACTCTGTCCCAAACCCCTC
 CGTGTCTGACGGGCCTAGAACTTGGAGGTGTCAAGACACAACACAGACTCAAGGCTTCT
 GATTGAAAATGTGGGAGGCTTGGGCCAAGCGCGGTGGCTCACACTTGTAGTTCCAACGT
 TTTGGGAAGGCCACGTGGGAAGATCACTTGAGCCAGAGTTCAAGACCAAGCTGAGCATA
 TAGTGAGACCCTGTCTTAAACAAACAAAAAAGCCAGTGTGTTGGCGTGCACCTGTGG
 CCCNACTGTTACGAAGCTTAGGCAGGAGATATTCTTAAACCACAGAGGTGTAGGGGGCA
 TGACCTATTATTACCCACTTGCCTCCAGTTTGGGGACCAAGCAGAACCTGTCTCAAAAG
 AAAAAGAAATTGAAGGGCTTTANAAGGAAGNCATTCTGGCCAGAGCCTGGCTCTGCTC
 TGAATGCACTGCCCTCCGCACAGGGTGAAGGGCTCGGCCTCGGGTATGGCTGATCTGG
 CTCCAGGCAACCC

Restriction Sites:

NotI-NotI

ACCN:

NM_025193

Insert Size:

2210 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_025193.2 , NP_079469.2
RefSeq Size:	2189 bp
RefSeq ORF:	1110 bp
Locus ID:	80270
UniProt ID:	Q9H2F3
Cytogenetics:	16p11.2
Domains:	3Beta_HSD
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Primary bile acid biosynthesis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a).</p>