

Product datasheet for SC114479

HSD17B12 (NM_016142) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD17B12 (NM_016142) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSD17B12
Synonyms:	KAR; SDR12C1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114479 sequence for NM_016142 edited (data generated by NextGen Sequencing)

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ATGGAGAGCGCTCTCCCCGCCGCCGGCTTCTGTACTGGGTCGGGCGGGCACCCTGGCC
TACCTAGCCCTGCGTATTTTCGTACTCGCTCTCACGGCCCTCCGGTCTGGGGAGTGGGG
AATGAGGCGGGGTCGGCCCGGGCTCGGAGAATGGGCAGTTGTCACAGGTAGTACTGAT
GGAATTGGAAAATCATATGCAGAAGAGTTAGCAAAGCATGGAATGAAGGTTGTCCTTATC
AGCAGATCAAAGGATAAACTTGACCAGGTTTCCAGTGAATAAAAAGAAAAATTCAAAGTG
GAGACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAACA
GGCTTGGCTGGTCTTGAAATCGGCATCTTAGTGAACAACGTGGGAATGTCGTATGAGTAT
CCTGAATACTTTTTGGATGTTCTGACTTGGACAATGTGATCAAGAAAATGATAAATATT
AATATTCTTTCTGTTTGAAGATGACACAATTGGTACTGCCTGGCATGGTGGAAAGATCC
AAAGGGGCTATTCTGAACATTTTCATCTGGCAGTGGCATGCTCCCTGTCCCACTCTTGACC
ATCTATTCTGCAACCAAGACTTTTGTAGATTTCTCTCTCAGTGCCTCCATGAGGAGTAT
AGGAGCAAGGGCGTCTTTGTGCAGAGTGTCTGCCATACTTCGTAGCTACAAAATGGCT
AAAATCCGGAAGCCAACCTTTGGATAAGCCCTCTCCGGAGACGTTTGTGAAGTCTGCAATT
AAAACAGTCGGCCTGCAATCCCGAACCAATGGATACCTGATCCATGCTCTTATGGGCTCG
ATAATCTCAAACCTGCCTTCTGGATTTATTTGAAAATAGTCATGAATATGAACAAGTCT
ACACGGGCTCACTATCTGAAGAAAACCAAGAAGAACTAA

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Clone variation with respect to NM_016142.2



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5' Read Nucleotide Sequence: >OriGene 5' read for NM_016142 unedited
 NGGTAACGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGGCACGAGGG
 GAATGGCCCCGCGGGCGGGGTTTAGGCCAAATGGTGTCCGGAGCAGCGCCTATTAGTGT
 ATCCTCACCGTCACGGCCGGCGCCTCCTCCTGGATTCACTCACTCGCTCTTTTCATTAC
 GAAGGTAGTGAGGCCTAGTGGAAAGCCATGGAGAGCGCTCTCCCCGCCGCGGCTTCCTG
 TACTGGGTCCGGCGCGGCACCGTGGCCTACCTAGCCCTGCGTATTTTCGTA CTGCTCTTC
 ACGGCCCTCCGGGTCTGGGGAGTGGGAATGAGGCGGGGTCGGCCCCGGGCTCGGAGAA
 TGGGCAGTTGTCACAGGTAGTACTGATGAATTGGAAAATCATATGCAGAAGAGTTAGCA
 AAGCATGGAATGAAGTTGTCCTTATCAGCAGATCAAAGGATAAACTTGACCAGGTTTCC
 AGTGAAAATAAAGAAAAATTCAAAGTGGAGACAAGAACCATTGCTGTTGACTTTGCATCA
 GAAGATATTTATGATAAAATTAANACAGGCTTGGCTGGTCTTGAATCGGCATCTTAGTG
 AACACGTGNGAATGTCGTATGAGTATCCTGAATACTTTTTGGATGTTCTGACTTGGAC
 AATGTGATCAAGGAAATGATAAATTAATATTCTTTCTGTTTGAAGATGACACAATTG
 GTACTGCCTGGCATGGTGGAAAGATCCCAAGGGGCTATTCTGAACATTTTCATCTGGCAGT
 GGCATGCGTCCTGTCCCCTCTTGACCATCTATTCTGCAACCAAAGACTTTTGAAATTT
 CTCTCTCAGTGCCTTCCATGAGGAGTATAGNACCAAGGGCGTCTTTTGTGCCAATGT
 CCTGCCTAC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_016142 unedited
 GCCCATTACTATGNACCGCGGCACGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCA
 TAAAGCTATATATTTATCAACTAAATGACAACCTTTATTCTGAGATTACATTCTTCT
 AATTTTAGGGCTAAAAATATTTTTCTTTTACATAATGATGCTGATAGCAGATGGCTATT
 TGTTTTGTGTTTATTTTTGTTTTATGTCCTTAGCTGGCAAATTAAGCCAGAAGC
 TAAGGCCCATTTTTTTTTCTTTAATAACAATCTACTGGTGTGAAAACCAAAGCTTA
 GAAACACAGCCTAGGTAAGACCAATCTTCTGCTGCATATTTACAGTATTGAATTCT
 TTCTTGGCGAGTTCTCCATACAAGTTATGAAGCAGGATAAAAGTCACTCTTATATTAAGC
 CATTGTAATAACGGCCTAATTTCACTCACCACACAACCTGATTTTTGTTGTACACCATG
 GTCGCACCATGTTTTATTAACCTAACTCTATCACTAGCTACCTGCACAGTATCAACTTA
 CAAATTACTGCCATTTCTATGAAGCCATCACTTTTATAGGACTACCCCGTCCCATATG
 TGTGACCAATATTGGCTTAATGCATAAACAAGGCAGCTTGTGTGTCGAAGCAAGCCATT
 TTTCTGGGCCACGGTCTTAGTGCCACCCTATATGGCTGCCAGTCTCCATGTACACTCTGG
 CCCATTTATTTTTATAACCATCCCATATAGCCCGACTTCCCCCTACCTTTACACTGAA
 CACAACCTTCTATAGAACGCTTACTCTAACGGCGCTCCATGGGCCACAAATACTTTC
 ATATTTACACTTATTTCTTGCCTCTCACTCCCTTCGAAAACAACATTCCCTCATACCGC
 CCG

Restriction Sites: NotI-NotI
ACCN: NM_016142
Insert Size: 2500 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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.
RefSeq:	NM_016142.1 , NP_057226.1
RefSeq Size:	2393 bp
RefSeq ORF:	939 bp
Locus ID:	51144
UniProt ID:	Q53GQ0
Cytogenetics:	11p11.2
Domains:	adh_short
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Androgen and estrogen metabolism, Biosynthesis of unsaturated fatty acids, Metabolic pathways
Gene Summary:	This gene encodes a very important 17beta-hydroxysteroid dehydrogenase (17beta-HSD) that converts estrone into estradiol in ovarian tissue. This enzyme is also involved in fatty acid elongation. [provided by RefSeq, Oct 2011]