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Product datasheet for SC122552

HSD11B2 (NM_000196) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSD11B2 (NM_000196) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSD11B2
Synonyms:	AME; AME1; HSD2; HSD11K; SDR9C3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_000196 edited
CCCTCTCGCGCCCCAGGCCGGTGTACCCCCGCACTCCGCGCCCCGGCCTAGAAGCTCTCT
CTCCCCGCTCCCCGGCCCGGCCCCCGCCCCGCCCCGCCCCAGCCCGCTGGGCCGCCATGG
AGCGCTGGCCTTGGCCGTCGGGCGGCGCCTGGCTGCTCGTGGCTGCCCGCGCGCTGCTGC
AGCTGCTGCGCTCAGACCTGCGTCTGGGCCGCCCGCTGCTGGCGGCGCTGGCGCTGCTGG
CCGCGCTCGACTGGCTGTGCCAGCGCCTGCTGCCCCCGCCGGCCGCACTCGCCGTGCTGG
CCGCCGCCGGCTGGATCGCGTTGTCCCGCCTGGCGCGCCCGCAGCGCCTGCCGGTGGCCA
CTCGCGCGGTGCTCATCACCGGCTGTGACTCTGGTTTTGGCAAGGAGACGGCCAAGAAAC
TGGACTCCATGGGCTTCACGGTGCTGGCCACCGTATTGGAGTTGAACAGCCCCGGTGCCA
TCGAGCTGCGTACCTGCTGCTCCCCTCGCCTAAGGCTGCTGCAGATGGACCTGACCAAAC
CAGGAGACATTAGCCGCGTGCTAGAGTTCACCAAGGCCCACACCACCAGCACCGGCCTGT
GGGGCCTCGTCAACAACGCAGGCCACAATGAAGTAGTTGCTGATGCGGAGCTGTCTCCAG
TGGCCACTTTCCGTAGCTGCATGGAGGTGAATTTCTTTGGCGCGCTCGAGCTGACCAAGG
GCCTCCTGCCCCTGCTGCGCAGCTCAAGGGGCCGCATCGTGACTGTGGGGAGCCCAGCGG
GGGACATGCCATATCCGTGCTTGGGGGCCTATGGAACCTCCAAAGCGGCCGTGGCGCTAC
TCATGGACACATTCAGCTGTGAACTCCTTCCCTGGGGGGTCAAGGTCAGCATCATCCAGC
CTGGCTGCTTCAAGACAGAGTCAGTGAGAAACGTGGGTCAGTGGGAAAAGCGCAAGCAAT
TGCTGCTGGCCAACCTGCCTCAAGAGCTGCTGCAGGCCTACGGCAAGGACTACATCGAGC
ACTTGCATGGGCAGTTCCTGCACTCGCTACGCCTGGCCATGTCCGACCTCACCCCAGTTG
TAGATGCCATCACAGATGCGCTGCTGGCAGCTCGGCCCCGCCGCCGCTATTACCCCGGCC
AGGGCCTGGGGCTCATGTACTTCATCCACTACTACCTGCCTGAAGGCCTGCGGCGCCGCT
TCCTGCAGGCCTTCTTCATCAGTCACTGTCTGCCTCGAGCACTGCAGCCTGGCCAGCCTG
GCACTACCCCACCACAGGACGCAGCCCAGGGCCCAAACCTGAGCCCCGGCCCTTCCCCAG
CAGTGGCTCGGTGAGCCATGTGCACCTATGGCCCAGCCACTGCAGCACAGGAGGCTCCGT
GAGCCCTTGGTTCCTCCCCGAAAACCCCCAGCATTACGATCCCCCAAGTGTCCTGGACCC
TGGCCTAAAGAATCCCACCCCCACTTCATGCCCACTGCCGATGCCCAATCCAGGCCCGGT
GAGGCCAAGGTTTCCCAGTGAGCCTCTGCGCCTCTCCACTGTTTCATGAGCCCAAACACC
CTCCTGGCACAACGCTCTACCCTGCAGCTTGGAGAACTCCGCTGGATGGGGAGTCTCATG
CAAGACTTCACTGCAGCCTTTCACAGGACTCTGCAGATAGTGCCTCTGCAAACTAAGGAG
TGACTAGGTGGGTTGGGGACCCCCTCAGGATTGTTTCTCGGCACCAGTGCCTCAGTGCTG
CAATTGAGGGCTAAATCCCAAGTGTCTCTTGACTGGCTCAAGAATTAGGGCCCCAACTAC
ACACCCCCAAGCCACAGGGAAGCATGTACTGTACTTCCCAATTGCCACATTTTAAATAAA
GACAAATTTTTATTTCTTCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000196 unedited
GGGTTTGGATTTGTATACGACTCATATAGGCGGCCGCGACTTCCCGGGATCCCTCTCGCG
CCCCAGGCCGGTGTACCCCCGCACTCCGCGCCCCGGCCTAGAAGCTCTCTCTCCCCGCTC
CCCGGCCCGGCCCCCGCCCCGCCCCGCCCCAGCCCGCTGGGCCGCCATGGAGCGCTGGCC
TTGGCCGTCGGGCGGCGCCTGGCTGCTCGTGGCTGCCCGCGCGCTGCTGCAGCTGCTGCG
CTCAGACCTGCGTCTGGGCCGCCCGCTGCTGGCGGCGCTGGCGCTGCTGGCCGCGCTCGA
CTGGCTGTGCCAGCGCCTGCTGCCCCCGCCGGCCGCACTCGCCGTGCTGGCCGCCGCCGG
CTGGATCGCGTTGTCCCGCCTGGCGCGCCCGCAGCGCCTGCCGGTGGCCACTCGCGCGGT
GCTCATCACCGGCTGTGACTCTGGTTTTGGCAAGGAGACGGCCAAGAAACTGGACTCCAT
GGGCTTCACGGTGCTGGCCACCGTATTGGAGTTGAACAGCCCCGGTGCCATCGAGCTGCG
TACCTGCTGCTCCCCTCGCCTAAGGCTGCTGCAGATGGACCTGACCAAACCAGGAGACAT
TAGCCGCGTGCTAGAGTTCACCAAGGCCCACACCACCAGCACCGGCCTGTGGGGCCTCGT
CAACAACGCAGGCCACAATGAAGTAGTTGCTGATGCGGAGCTGTCTCCCATGGCCACTTT
CCGTAGCTGCATGGAGGTGAATTTCTTTGGCGCGCTCGAGCTGACCCAAGGCCTCCTGCC
TCTGCTGCGCAGCTAAAGGGCCGCATCGTGACTGTGGGGAGCCCACCGGGGGACATGCCA
TATCCGTGCTTGGGGGCCCAATGGAACCTCCAAAGGGCGCGTGGCCCTCCTCATGGACAC
ATTCGCCTGTGAACTCCT

Restriction Sites:	Please inquire
ACCN:	NM_000196
Insert Size:	1944 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:	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_000196.2, NP_000187.2
RefSeq Size:	1944 bp
RefSeq ORF:	1218 bp
Locus ID:	3291
UniProt ID:	P80365
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome
Protein Pathways:	Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways
Gene Summary:	There are at least two isozymes of the corticosteroid 11-beta-dehydrogenase, a microsomal enzyme complex responsible for the interconversion of cortisol and cortisone. The type I isozyme has both 11-beta-dehydrogenase (cortisol to cortisone) and 11-oxoreductase (cortisone to cortisol) activities. The type II isozyme, encoded by this gene, has only 11-beta-dehydrogenase activity. In aldosterone-selective epithelial tissues such as the kidney, the type II isozyme catalyzes the glucocorticoid cortisol to the inactive metabolite cortisone, thus preventing illicit activation of the mineralocorticoid receptor. In tissues that do not express the mineralocorticoid receptor, such as the placenta and testis, it protects cells from the growth-inhibiting and/or pro-apoptotic effects of cortisol, particularly during embryonic development. Mutations in this gene cause the syndrome of apparent mineralocorticoid excess and hypertension. [provided by RefSeq, Feb 2010]