

Product datasheet for **SC123353**

SULT2B1 (NM_177973) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT2B1 (NM_177973) Human Untagged Clone
Tag:	Tag Free
Symbol:	SULT2B1
Synonyms:	ARCI14; HSST2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_177973 edited
 CTGCGCACACCTGGCCTCTGTGCCGCTGCTCCCTGCTCGTCCTCCCCTCCCCACCCTCA
 CCCACCTGCCATGGACGGGCCCGAGCCCCAGATCCCGGGCTTGTGGGACACCTATGA
 AGATGACATCTCGAAATCAGCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGT
 CCCCTTCCCCTGCGCCTGTACTCGCTCGAGAGCATCAGCTTGGCGGAGAACACCCAAGA
 TGTGCGGGACGACGACATCTTTATCATCACCTACCCCAAGTCAGGCACGACCTGGATGAT
 CGAGATCATCTGCTTAATCCTGAAGGAAGGGGATCCATCCTGGATCCGCTCCGTGCCAT
 CTGGGAGCGGGCACCCCTGGTGTGAGACCATTGTGGGTGCCTTCAGCCTCCCGACCAGTA
 CAGCCCCGCCTCATGAGCTCCCATCTTCCCATCCAGATCTTCACCAAGGCCTTCTTCAG
 CTCCAAGGCCAAGGTGATCTACATGGGCCGCAACCCCGGGACGTTGTGGTCTCCCTCTA
 TCATTAATCCTCAAGATCGCCGGGAGTAAAGACCCGGGCACACCCGACCAGTTCCTGAG
 GGACTTCTCAAAGGCGAAGTGCAGTTTGGCTCCTGGTTCGACCACATTAAGGGCTGGCT
 TCGGATGAAGGGCAAAGCAACTTCTATTTATACCTACGAGGAGCTGCAGCAGGACTT
 ACAGGGCTCCGTGGAGCGCATCTGTGGTTCCTGGGCCGTCGCTGGGCAAGGAGGCACT
 GGGCTCCGTGCTGGCACACTCAACCTTCAGCGCCATGAAGGCCAACACCATGTCCAACCTA
 CACGCTGCTGCCTCCCAGCCTGCTGGACCACCGTCGCGGGGCCTTCTCCGAAAGGGGT
 CTGTGGCGACTGGAAGAACCCTTACGGTGGCCAGAGCGAAGCCTTCGATCGTGCCTA
 CCGCAAGCAGATGCGGGGGATGCCGACCTTCCCCTGGGATGAAGACCCGGAGGAGGACGG
 CAGCCCATGCTGAGCCAGCCCTGAGCCTGAGCCCAAGCCAGCCCTTGAAGCCCAACAC
 CAGCCTGGAGCGTGAAGCCAGCCCAACTCCAGCCAGCCAGCCCGCCGAGCCGAGCCCTC
 TGAGACCCCGCACCCACGACCCTCATAATAAACACGTCGATTCTGAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_177973 unedited NGGGCGGTTGGATTTGTAACGACTCACTATAGGCGGCCGCGCATTCCCAGGATCTGCGC ACACCTGGCCTCTGTGCCGCTGCTCCCTGCTCGTCCCTCCCACCCCTCACCCACC TGCCATGGACGGGCCCCGAGCCCCAGATCCCGGGCTTGTGGGACACCTATGAAGATGA CATCTCGAAATCAGCCAGAAGTTGCCAGGTGAATACTCCGGTACAAGGGCGTCCCCTT CCCCCTCGGCCTGACTCGCTCGAGAGCATCAGCTTGGCGGAGAACACCCAAGATGTGCG GGACGACGACATCTTTATCATCACCTACCCCAAGTCAGGCACGACCTGGATGATCGAGAT CATCTGCTTAATCCTGAAGGAAGGGATCCATCCTGGATCCGCTCCGTGCCCATCTGGGA GCGGGCACCTGGTGTGAGACCATTGTGGTGCCTTCAGCCTCCCAGGACAGTACAGCCC CCGCCTCATGAGCTCCCATCTTCCCATCCAGATCTTACCAAGGCCTTCTCAGCTCCAA GGCCAAGGTGATCTACATGGGCCGCAACCCCGGGACGTTGTGGTCTCCCTCTATCATT CTCCAAGATCGCCGGCAGTTAAGGACCCGGGCACACCCGACCAGTTCTGAGGGACTT CCTCAAGGCGAAGTGCAGTTTGGCTCCTGGTTCGACCACATTAAGGGCTGGCTTCGGATG AAGGGCAAAGACAACCTTCTATTTATCACCTACGAGGAGCTGCAGCAGGACTTACAGGGC TCCGTGGAGCGCATCTGTGGTTCCTGGGCCGTCCGCTGGGCAAGGAGCACTGGGCTNCG TCGTGCCCACTCAACCTTCAGCGCCATGAAG
Restriction Sites:	Please inquire
ACCN:	NM_177973
Insert Size:	1220 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_177973.1, NP_814444.1</u>
RefSeq Size:	1228 bp
RefSeq ORF:	1098 bp
Locus ID:	6820
UniProt ID:	<u>O00204</u>
Cytogenetics:	19q13.33

Protein Pathways: Androgen and estrogen metabolism, Sulfur metabolism

Gene Summary: Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. This gene sulfates dehydroepiandrosterone but not 4-nitrophenol, a typical substrate for the phenol and estrogen sulfotransferase subfamilies. Two alternatively spliced variants that encode different isoforms have been described. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) is also known as SULT2B1b. It is the predominant transcript and it encodes the longer protein (isoform b).