

## Product datasheet for **SC303504**

### SULT2B1 (NM\_004605) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SULT2B1 (NM_004605) Human Untagged Clone
Tag:	Tag Free
Symbol:	SULT2B1
Synonyms:	ARCI14; HSST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303504 representing NM_004605. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGTCTCCCCACCTTTCCACAGCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGTCCCC
TTCCCCGTGGCCTGTAAGTCTCGTCTCGAGAGCATCAGCTTGGCGGAGAACACCCAAGATGTGCGGGACGAC
GACATCTTTATCATCACCTACCCCAAGTCAGGCACGACCTGGATGATCGAGATCATCTGCTTAATCTG
AAGGAAGGGGATCCATCCTGGATCCGCTCCGTGCCCATCTGGGAGCGGGCACCCCTGGTGTGAGACCATT
GTGGGTGCCTTCAGCCTCCGGACCAGTACAGCCCCCGCCTCATGAGCTCCCATCTCCCATCCAGATC
TTCACCAAGGCCTTCTTCCAGCTCCAAGGCCAAGGTGATCTACATGGGCCGCAACCCCGGGACGTTGTG
GTCTCCCTCTATCATTACTCCAAGATCGCCGGGAGTTAAAGGACCCGGGCACACCCGACCAAGTTCCCTG
AGGGACTTCTCAAAGGCCAAGTGCAGTTTGGCTCCTGGTTCGACCACATTAAGGGCTGGCTTCGGATG
AAGGGCAAAGACAACCTTCTATTTATCACCTACGAGGAGCTGCAGCAGGACTTACAGGGCTCCGTGGAG
CGCATCTGTGGGTTCTGGGCCGCTCCGCTGGGCAAGGAGGCACTGGGCTCCGTCTGGCACACTCAACC
TTCAGCGCCATGAAGGCCAACCCATGTCCAACACACGCTGCTGCCTCCAGCCTGCTGGACCACCGT
CGCGGGGCCTTCTCCGAAAGGGGTCTGCGGCGACTGGAAGAACCATTACGGTGGCCAGAGCGAA
GCCTTCGATCGTGCCTACCGCAAGCAGATGCGGGGGATGCCGACCTTCCCTGGGATGAAGACCCGGAG
GAGGACGGCAGCCAGATCCTGAGCCCAGCCCTGAGCCTGAGCCCAAGCCAGCCTTGAGCCCAACACC
AGCCTGGAGCGTGAGCCAGACCAACTCCAGCCCCAGCCCCAGCCCCGAGCCCTCTGAGACCCCG
CACCCACGACCTCATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_004605



<b>Insert Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004605.2</a>
<b>RefSeq Size:</b>	1281 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	6820
<b>UniProt ID:</b>	<a href="#">O00204</a>
<b>Cytogenetics:</b>	19q13.33
<b>Domains:</b>	Sulfotransfer
<b>Protein Pathways:</b>	Androgen and estrogen metabolism, Sulfur metabolism
<b>MW:</b>	39.6 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1), also known as SULT2B1a, differs in the 5' UTR and in the coding region when compared to variant 2. The resulting protein (isoform a) has a shorter and distinct N-terminus compared to isoform b.</p>