

## Product datasheet for RN212456

### Sult2b1 (NM\_001039665) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Sult2b1 (NM\_001039665) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Sult2b1  
 Synonyms: ST2B1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN212456 representing NM\_001039665  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTCCATGGTCCAGGAATACCTGCTACTCGTCCCCCTCAATGAGGCTGGACCGGAGCTGCGCGCGCA  
 AACTGCTCGCTGGGGCACTGGAAGGAGGGGAAGCCTCACGGTGGGCTCACTGGAGAACTGAGGCAGG  
 ATCATCGTGGAATGGAGGATCAGAAAGCCAGAAGCTGCAAGGTGAATACTTCAGGTACAAAGGCATTCCC  
 TTTCCAGTCGGCATGTATACACCAGAGAGCCTCAGTCTGGCCGAGAACACTAGCAATGTGCGGGACGACG  
 ACATCTTCATCGTCACCTACCCCAAATCAGGCACCAACTGGATGATTGAGATCATCTGCTTAATCCTGAA  
 AGATGGGGACCCCTCGTGGATCCGTTCCGGAGCCCATCTGGCAACGTGCACCCTGGTGCAGAGACCACATA  
 AGTGCCTTCAGCCTTCAGAGCGGCCAGTCCCGCCTCATGTGCTCCCACCTCCCTATTGAACTGTTCA  
 CGAAGGCCGCCTTCAGCTCCAAGCCAAGGTGATTTACTTGGCCGGAACCCCGGGACGTCGTGGTCTC  
 CCTCTATTACTCTAAGATTGCTGTACAATTAAGGACCCTGGTACACCTGAACAGTTCCTTCAGAAT  
 TTCCTCAAAGGAGAAGTGCAGTTTGGCTCCTGGTTTGACCACATCAAGGGCTGGATCCGGATGCGGGGCC  
 GAGAGAACTTCTGTTTATCACCTACGAGGAGCTGCAGCAGGACCTGCGAGGCTCCGTGCAACTCATCTG  
 TGAGTTCTGGCCGCCCAGTGGGTGAAGAGCCCTGAGCTCTGTGGTGGCCATTTCAGCTTTTGCTGCC  
 ATGAAGGCCAATAACATGTCCAACCTACAGCTGCTGCCGCGCCAGCCTGCTAGACCACCGCCAGGGGCGT  
 TCCTGCGCAAAGGGATCAGTGGCGACTGGAAGAACCCTTCACTGTGGCGCAGAGTGAGACTTTTGACCA  
 GGTCTACCGAGAGCAAATGCACGGGCTGCCGAGCTTCCCTGGGACAGGTCCGCAGAGGACGGCAGCCCT  
 GATGGCGAGACTGAGCCAGCCCTAGCCCCAGCCCTGGCTAGCCTCTGATGACCCCAACCCAGGATCCT  
 CACAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



<b>ACCN:</b>	NM_001039665
<b>Insert Size:</b>	1128 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>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>	<u>NM_001039665.1, NP_001034754.1</u>
<b>RefSeq Size:</b>	1256 bp
<b>RefSeq ORF:</b>	1128 bp
<b>Locus ID:</b>	292915
<b>UniProt ID:</b>	<u>Q29YR5</u>
<b>Cytogenetics:</b>	1q22
<b>Gene Summary:</b>	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs and xenobiotic compounds. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Sulfates hydroxysteroids such as dehydroepiandrosterone. Isoform 1 is required for production of cholesterol sulfate essential for normal skin development whereas isoform 2 produces pregnenolone sulfate, an essential neurosteroid during development of the central nervous system. Plays a role in epidermal cholesterol metabolism and in the regulation of epidermal proliferation and differentiation (By similarity).[UniProtKB/Swiss-Prot Function]