

## Product datasheet for RC204478

### SULT2B1 (NM\_177973) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SULT2B1 (NM_177973) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SULT2B1
Synonyms:	ARCI14; HSST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204478 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACGGGCCCGCCGAGCCCCAGATCCCGGGCTTGTGGGACACCTATGAAGATGACATCTCGGAAATCA  
GCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGTCCCCTTCCCCTCGGCTGTACTCGCTCGA  
GAGCATCAGCTTGGCGGAGAACACCAAGATGTGCGGGACGACATCTTTATCATCACCTACCCCAAG  
TCAGGCACGACCTGGATGATCGAGATCATCTGCTTAATCCTGAAGGAAGGGGATCCATCCTGGATCCGCT  
CCGTGCCCATCTGGGAGCGGGCACCCCTGGTGTGAGACCATTGTGGGTGCCTTCAGCTCCCGACCAGTA  
CAGCCCCCGCCTCATGAGCTCCCATCTTCCCATCCAGATCTTACCAAGGCCTTCTCAGCTCCAAGGCC  
AAGGTGATCTACATGGGCCGCAACCCCCGGGACGTTGTGGTCTCCCTCTATCATTACTCCAAGATCGCCG  
GGCAGTTAAAGGACCCGGGCACACCCGACCAGTTCCTGAGGGACTTCTCAAAGGCGAAGTGCAGTTTGG  
CTCCTGGTTCGACCACATTAAGGGCTGGCTTCGGATGAAGGGCAAAGACAACCTTCTATTTATCACCTAC  
GAGGAGCTGCAGCAGGACTTACAGGGCTCCGTGGAGCGCATCTGTGGTTCCTGGGCCGTCGCTGGGCA  
AGGAGGCACTGGGCTCCGTGTCGTCGACACTCAACCTTCAGCGCCATGAAGGCCAACACCATGTCCAAC  
CACGCTGCTGCCTCCCAGCCTGCTGGACCACCGTCGCGGGGCTTCTCCGAAAAGGGGTCTGTGGCGAC  
TGAAGAACCACCTCACGGTGGCCAGAGCGAAGCCTTCGATCGTGCCTACCGCAAGCAGATGCGGGGGA  
TGCCGACCTTCCCCTGGGATGAAGACCCGGAGGAGGACGGCAGCCAGATCCTGAGCCCAGCCCTGAGCC  
TGAGCCCCAAGCCAGCCTTGAGCCCAACACCAGCCTGGAGCGTGAGCCCAGACCCAACTCCAGCCCCAGC  
CCCAGCCCCGGCCAGGCCTCTGAGACCCCGCACCCACGACCCCTCA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC204478 protein sequence  
Red=Cloning site Green=Tags(s)

MDGPAEPQIPGLWDTYEDDISEISQKLPGEYFRYKGVPPFVGLYSLESISLAENTQDVRDDIFIIITYPK  
 SGTTWMIIEIICLILKEGDPSPWIRSVPIWERAPWCETIVGAFSLPDQYSPRLMSSHLPIQIFTKAFFSSKA  
 KVIYMGRNPRDVVSLYHYSKIAGQLKDPGTPDQFLRDFLKGVEVQFGSWFDHIKGLRMKGKDNFLFIT  
 EELQQDLQGSVERICGFLGRPLGKEALGSVVAHSTFSAMKANTMSNYTLPPSLLDHRRGAFLRKGVCGD  
 WKNHFTVAQSEAFDRAYRKQMRGMPTFPWDEDPEEDGSPDPEPSPEPEPKPSLEPNTSLEREPRPNSSPS  
 PSPGQASETPHPRPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6325\\_g09.zip](https://cdn.origene.com/chromatograms/mk6325_g09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_177973

**ORF Size:** 1095 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_177973.1](#), [NP\\_814444.1](#)

**RefSeq Size:** 1228 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 6820

**UniProt ID:** [O00204](#)

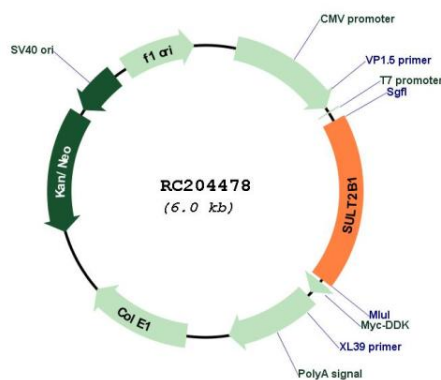
**Cytogenetics:** 19q13.33

**Protein Pathways:** Androgen and estrogen metabolism, Sulfur metabolism

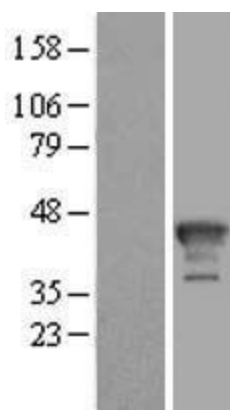
**MW:** 41.3 kDa

**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]

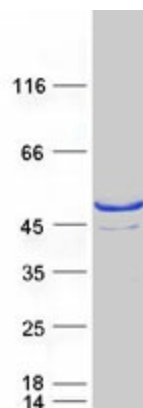
### Product images:



Circular map for RC204478



Western blot validation of overexpression lysate (Cat# [LY406066]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204478 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SULT2B1 protein (Cat# [TP304478]). The protein was produced from HEK293T cells transfected with SULT2B1 cDNA clone (Cat# RC204478) using MegaTran 2.0 (Cat# [TT210002]).