

Product datasheet for **RG204478**

SULT2B1 (NM_177973) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SULT2B1 (NM_177973) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SULT2B1
Synonyms: ARCI14; HSST2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204478 representing NM_177973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGGGCCCGCCGAGCCCCAGATCCCGGGCTTGTGGGACACCTATGAAGATGACATCTCGAAATCA
 GCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGTCCCCTTCCCCTCGGCCTGACTCGCTCGA
 GAGCATCAGCTTGGCGGAGAACACCCAAGATGTGCGGGACGACGACATCTTTATCATCACCTACCCCAAG
 TCAGGCACGACCTGGATGATCGAGATCATCTGCTTAATCCTGAAGGAAGGGGATCCATCCTGGATCCGCT
 CCGTGCCCATCTGGGAGCGGGCACCCCTGGTGTGAGACCATTGTGGGTGCCTTCAGCCTCCCGACCAGTA
 CAGCCCCCGCCTCATGAGCTCCCATCTTCCCATCCAGATCTTACCAAGGCCTTCTCAGCTCCAAGGCC
 AAGGTGATCTACATGGGCCGCAACCCCCGGGACGTTGTGGTCTCCCTCTATCATTACTCCAAGATCGCCG
 GGCAGTTAAAGGACCCGGGCACACCCGACCAGTTCCTGAGGGACTTCTCAAAGGCGAAGTGCAGTTTGG
 CTCCTGGTTCGACCACATTAAGGGCTGGCTTCGGATGAAGGGCAAAGACAACCTTCTATTTATCACCTAC
 GAGGAGCTGCAGCAGGACTTACAGGGCTCCGTGGAGCGCATCTGTGGTTCCTGGGCCGTCGCTGGGCA
 AGGAGGCACTGGGCTCCGTGTCGTCGACACTCAACCTTCAGCGCCATGAAGGCCAACACCATGTCCAACCTA
 CACGCTGCTGCCTCCAGCCTGCTGGACCACCGTCGCGGGGCTTCTCCGAAAAGGGGTCTGTGGCGAC
 TGAAGAACCACCTCACGGTGGCCAGAGCGAAGCCTTCGATCGTGCCTACCGCAAGCAGATGCGGGGGA
 TGCCGACCTTCCCCTGGGATGAAGACCCGGAGGAGGACGGCAGCCAGATCCTGAGCCCAGCCCTGAGCC
 TGAGCCCCAAGCCAGCCTTGAGCCCAACACCAGCCTGGAGCGTGAGCCCAGACCCAACTCCAGCCCCAGC
 CCCAGCCCCGGCCAGGCCTCTGAGACCCCGCACCCACGACCCCTCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204478 representing NM_177973
 Red=Cloning site Green=Tags(s)

```
MDGPAEPQIPGLWDTYEDDISEISQKLPGEYFRYKGVPPFPVGLYSLESISLAENTQDVRDDDDIFIIITYPK
SGTTWMIEIICLILKEGDPSPWIRSVPIWERAPWCETIVGAFSLPDQYSPRLMSSHLPIQIFTKAFFSSKA
KVIYMGRNPRDVVSLYHYSKIAGQLKDPGTPDQFLRDFLKGEVQFGSWFDHIKGLRMKGKDNFLFITY
EELQQLQGSVERICGFLGRPLGKEALGSVVAHSTFSAMKANTMSNYTLPPSLLDHRRGAFRLKGVCGD
WKNHFTVAQSEAFDRAYRKQMRGMPTFPWDEDPEDGSPDPEPSPEPEPKPSLEPNTSLEREPRNPSSPS
PSPGQASETPHRPS
```

TRTRPLE - GFP Tag - V

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

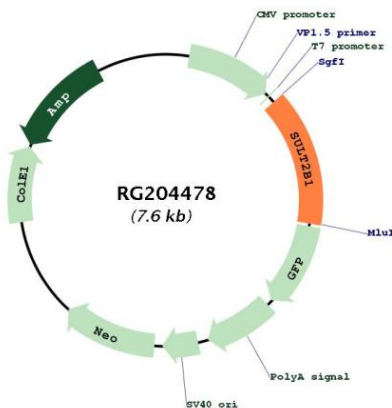
UniProt ID: [O00204](#)

Cytogenetics: 19q13.33

Protein Pathways: Androgen and estrogen metabolism, Sulfur metabolism

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 RG204478