

Product datasheet for RC216514

SULT2B1 (NM_004605) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SULT2B1 (NM_004605) 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: >RC216514 representing NM_004605
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTCCCCACCTTTCCACAGCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGTCCCCT
TCCCCGTGGCCTGTACTCGCTCGAGAGCATCAGCTTGGCGGAGAACACCCAAGATGTGCGGGACGACGA
CATCTTTATCATCACCTACCCCAAGTCAGGCACGACCTGGATGATCGAGATCATCTGCTAATCCTGAAG
GAAGGGGATCCATCCTGGATCCGCTCCGTGCCATCTGGGAGCGGGCACCCCTGGTGTGAGACCATTGTGG
GTGCCTTCAGCCTCCCGACCAGTACAGCCCCGCTCATGAGCTCCCATCTTCCATCCAGATCTTCAC
CAAGGCCTTCTCAGCTCCAAGGCCAAGGTGATCTACATGGGCCCAACCCCGGACGTTGTGGTCTCC
CTCTATCATTACTCCAAGATCGCCGGGCAGTTAAAGGACCCGGGCACACCCGACCAGTTCCTGAGGGACT
TCCTCAAAGGCCAAGTGCAGTTTGGCTCCTGGTTCGACCACATTAAGGGCTGGCTTCGGATGAAGGGCAA
AGACAACCTTCTATTTATCACCTACGAGGAGCTGCAGCAGGACTTACAGGGCTCCGTGGAGCGCATCTGT
GGTTCCTGGGCCGTCCGCTGGCAAGGAGGCACTGGGCTCCGTCGTGGCACACTCAACCTTCAGCGCCA
TGAAGGCCAACACCATGTCCAACACACGCTGCTGCCCTCCAGCCTGCTGGACCACCGTCGCGGGGCCTT
CCTCCGAAAGGGTCTGCGGCGACTGGAAGAACCCTTACGGTGGCCAGAGCGAAGCCTTCGATCGT
GCCTACCGCAAGCAGATGCGGGGATGCCGACCTTCCCCTGGGATGAAGACCCGGAGGAGGACGGCAGCC
CAGATCCTGAGCCAGCCCTGAGCCTGAGCCCAAGCCAGCCTTGAAGCCAAACACAGCCTGGAGCGTGA
GCCAGACCCAACTCCAGCCCCAGCCCCAGCCCCGGCCAGGCCTCTGAGACCCCGCACCCACGACCCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216514 representing NM_004605
Red=Cloning site Green=Tags(s)

MASPPPFHSQKLPGEYFRYKGVFPFVGLYSLESISLAENTQDVRDDDFIITYPKSGTTWMIIEICLILK
 EGDPSWIRSVPIWERAPWCETIVGAFSLPDQYSPRLMSSHLPIQIFTKAFFSSKAKVIYMGRNPRDVVVS
 LYHYSKIAGQLKDPGTPDQFLRDFLKGEVQFGSWFDHIKGLRMKGKDNFLFITVEELQQDLQGSVERIC
 GFLGRPLGKEALGSVVAHSTFSAMKANTMSNYTLPPSLLDHRRGAFLRKGVCGDWKNHFTVAQSEAFDR
 AYRQMRGMPTFPWDEDPEEDGSPDPEPSPEPEPKPSLEPNTSLEREPNNSPSPSPGQASETPHRPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8053_h11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004605

ORF Size: 1050 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_004605.2](#), [NP_004596.2](#)

RefSeq Size: 1281 bp

RefSeq ORF: 1053 bp

Locus ID: 6820

UniProt ID: [O00204](#)

Cytogenetics: 19q13.33

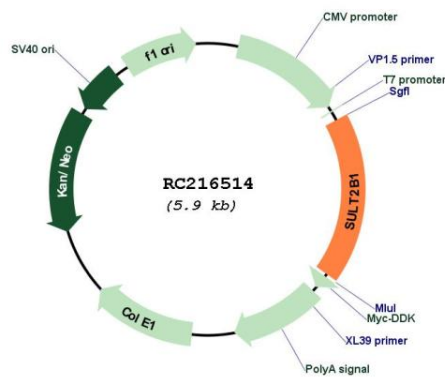
Domains: Sulfotransfer

Protein Pathways: Androgen and estrogen metabolism, Sulfur metabolism

MW: 39.4 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 RC216514