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Product datasheet for RG216514

SULT2B1 (NM_004605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT2B1 (NM_004605) 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:

>RG216514 representing NM_004605
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTCTCCCCCACCTTTCCACAGCCAGAAGTTGCCAGGTGAATACTTCCGGTACAAGGGCGTCCCCT
TCCCCGTCGGCCTGTACTCGCTCGAGAGCATCAGCTTGGCGGAGAACACCCAAGATGTGCGGGACGACGA
CATCTTTATCATCACCTACCCCAAGTCAGGCACGACCTGGATGATCGAGATCATCTGCTTAATCCTGAAG
GAAGGGGATCCATCCTGGATCCGCTCCGTGCCCATCTGGGAGCGGGCACCCTGGTGTGAGACCATTGTGG
GTGCCTTCAGCCTCCCGGACCAGTACAGCCCCCGCCTCATGAGCTCCCATCTTCCCATCCAGATCTTCAC
CAAGGCCTTCTTCAGCTCCAAGGCCAAGGTGATCTACATGGGCCGCAACCCCCGGGACGTTGTGGTCTCC
CTCTATCATTACTCCAAGATCGCCGGGCAGTTAAAGGACCCGGGCACACCCGACCAGTTCCTGAGGGACT
TCCTCAAAGGCGAAGTGCAGTTTGGCTCCTGGTTCGACCACATTAAGGGCTGGCTTCGGATGAAGGGCAA
AGACAACTTCCTATTTATCACCTACGAGGAGCTGCAGCAGGACTTACAGGGCTCCGTGGAGCGCATCTGT
GGGTTCCTGGGCCGTCCGCTGGGCAAGGAGGCACTGGGCTCCGTCGTGGCACACTCAACCTTCAGCGCCA
TGAAGGCCAACACCATGTCCAACTACACGCTGCTGCCTCCCAGCCTGCTGGACCACCGTCGCGGGGCCTT
CCTCCGGAAAGGGGTCTGCGGCGACTGGAAGAACCACTTCACGGTGGCCCAGAGCGAAGCCTTCGATCGT
GCCTACCGCAAGCAGATGCGGGGGATGCCGACCTTCCCCTGGGATGAAGACCCGGAGGAGGACGGCAGCC
CAGATCCTGAGCCCAGCCCTGAGCCTGAGCCCAAGCCCAGCCTTGAGCCCAACACCAGCCTGGAGCGTGA
GCCCAGACCCAACTCCAGCCCCAGCCCCAGCCCCGGCCAGGCCTCTGAGACCCCGCACCCACGACCCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

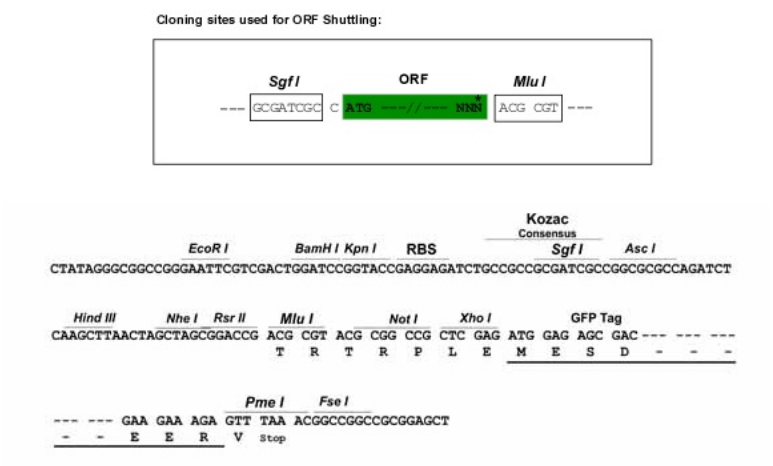
>RG216514 representing NM_004605
Red=Cloning site Green=Tags(s)

MASPPPFHSQKLPGEYFRYKGVPFPVGLYSLESISLAENTQDVRDDDIFIITYPKSGTTWMIEIICLILK
EGDPSWIRSVPIWERAPWCETIVGAFSLPDQYSPRLMSSHLPIQIFTKAFFSSKAKVIYMGRNPRDVVVS
LYHYSKIAGQLKDPGTPDQFLRDFLKGEVQFGSWFDHIKGWLRMKGKDNFLFITYEELQQDLQGSVERIC
GFLGRPLGKEALGSVVAHSTFSAMKANTMSNYTLLPPSLLDHRRGAFLRKGVCGDWKNHFTVAQSEAFDR
AYRKQMRGMPTFPWDEDPEEDGSPDPEPSPEPEPKPSLEPNTSLEREPRPNSSPSPSPGQASETPHPRPS

TRTRPLE - GFP Tag - V

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

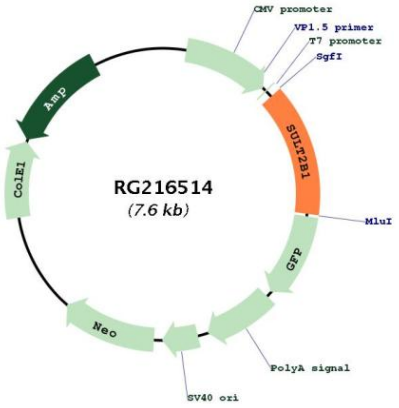
Cytogenetics: 19q13.33

Domains: Sulfotransfer

Protein Pathways: Androgen and estrogen metabolism, Sulfur metabolism

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 RG216514