

Product datasheet for MR204165

Sult1b1 (NM_019878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sult1b1 (NM_019878) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sult1b1
Synonyms:	ST1B1; St2b2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204165 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGCCTCAGAAGACGTTTGGAGAAAAGATCTGAAGATGATCCATGGCTACCCCATGATCTATGCTT
TTGCACTCAATTGGGAAAGGATTGAAGAGTTCAGAGCACACCAGGTGACATTGTAATAACCACTTACCC
TAAATCAGGTAATACTTGGCTTAGTGAGATTGTAGACATGGTTCTAAATGATGGAATGTTGAAAAATGT
AAGAGAGATGTTATCACCTCCAAAGTTCCAATGTTGGAAGTGAAGTTCCTGGAATAAGAATATCAGGTG
TTGAAGTCTTGAAGAAAAGTCCATCACCTCGGATAATAAAGACACATCTCCAATCGATCTACTCCAAA
ATCCTTCTGGGAGAACAAAGTGAAGATGATTTACCTTGCCTGCAAAATGGCAAGGATGTTGCTGCTCCTAT
TATCATTTTATGATCTGATGAATAGTATTAATCCTCTTCTGGCACCTGGGAAGAATATCTGGAGAAATTC
TAGCTGGAAATGTGGCCTATGGTTCATGGTTTATCATGTTAAGAGTTGGTGGGAAAAGAGGGAAGAGCA
TCCTTTACTTTACTTATACTATGAAGAATTGAAACAGAACCCAAAGAAAGAAATCAAGAAGATAGCCAGC
TTTCTAGACAAGACCTTGGATGAAGAGGCTTGGACAGGATCGTCCATCACACCTCCTTTGAAATGATGA
AGGAAAACCCCTGGTCAATTACACCATCTGCCACAGCAATGATGGACCACAGCAAGTCCCCTTTCAT
GAGAAAAGGTATTGTTGGGACTGGAAAAATTACTTACAATGACCCAACTGAGCAATTTGATGCTGTC
TATAAGAAGAAGATGTCTGGAACAACACTTGAGTTCTGCACAGACATTGAGAGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204165 protein sequence
 Red=Cloning site Green=Tags(s)

MSASEDVWRKDLKMIHGYPMIYAFALNWERIEEFQSTPGDIVITTYPKSGTTWLSEIVDMVLNDGNVEKC
 KRDVITSKVPMLELSVPGIRISGVELLKKTPSPRIKTHLPIDLLPKSFWENKCKMIYLARNGKDVAVSY
 YHFDLMNSINPLPGTWEEYLEKFLAGNVAYGSWFDHVKSWEKREEHLLLYEELKQNPKEIKKIAS
 FLDKTLDEEALDRIVHHTSFEMMKENPLVNYTHLPTAMMDHKSPPFMRKGVGDWKNYFTMTQTEQFDAV
 YKKKMSGTTLEFCTDIQSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019878

ORF Size: 900 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_019878.4](#)

RefSeq Size: 2604 bp

RefSeq ORF: 900 bp

Locus ID: 56362

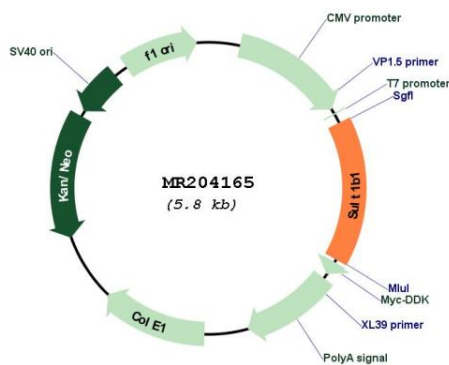
UniProt ID: [Q9QWG7](#)

Cytogenetics: 5 E1

MW: 34.9 kDa

Gene Summary: 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 L-DOPA and D-DOPA, tyrosine isomers such as DL-m-tyrosine, dopamine and thyroid hormones.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204165