

Product datasheet for MR205040

Sult2b1 (NM_017465) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sult2b1 (NM_017465) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sult2b1
Synonyms: AI326997; BB173635; ST2B1; SULT2B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR205040 representing NM_017465
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGGGCCGAGCCCCGCGCCCTGTGGAGCTCGTCTGAGAAAAATGTTCCGAAATGAGCTGGAATT
 TTGGAGGTGAATACTTCAGATACAAAGGTATCCCTTTTCTGTGGCATGTACTCACGGAGAGCCCTCAG
 TCTGGCTGAGAACTAGCAACGTGCGGGACGACGACATCTTCATTGTCACCTACCCAAATCAGGTACC
 AACTGGATGATTGAGATCGTCTGCTTAATCCTGAAAGATGGGGATCCCTCGTGGATCCGATCGGAGCCCA
 TCTGGCAACGTGCGCCCTGGTGCAGACCATCATAAGCGCCTTCAATGTCTTAGACGGCCAGCCCCCG
 CATTATGAGCTCTCACCTCCCTATTGAACTCTTACGAAGGCATTCTTACGCTCCAAGGCTAAGGTGATT
 TACGTGGGCCGGAACCCCGCATGTCTGGTCTCCCTCTATTATTCTAAGATTGCTGGCAATTAA
 AGGACCTGGTACACCCGACAGTTCCTTCAAATTTCTCAAAGGAGAAGTGCAGTTTGGCTCCTGGTT
 TGACCACATCAAGGGCTGGATCCGGATGCAGAACCAAGAGAATTCCTGTTTATCACCTATGAGGAGCTG
 CAGCAGGACCTGCGAGGCTCCGTGCAACGCATCTGTGAGTTCTGGGCCGGCCACTGGGTGAAGAGGCC
 TGAGCTCTGTGGTGGCCACTCAGCCTTGTGCCATGAAGGCCAATACCATGTCCAACACTCGCTGCT
 GCCGGCCAGCCTGCTGGACCACCGCCAGGGGAGTTCTGCGCAAAGGGATCAGTGGCAGCTGGAAGAAC
 CACTTACTGTGGCCAGAGTGAGGCTTTGACAGTGTTTACCGAGAGCAAATGCACGGGGTGCAGAGGT
 TCCCCTGGGACAGTCTGAAGAGGATAGCAGCCCTGATGGCCAGCCTGACCCTGAGCCAGCCCCAGCCC
 AGCTTCTGATGACCCCAACCCAGGATCCTCACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205040 representing NM_017465
 Red=Cloning site Green=Tags(s)

MDGPQPRALWSSSEKNVSEMSWNFGGEYFRYKGIPIFPVGMYSPELSLAENTSNVRDDIFIVTYPKSGT
 NWMIEIVCLILKGDGDPWIRSEPIWQRPWCETIISAFNVLDSPRIMSSHLPIELFTKAFSSKAKVI
 YVGRNPRDVVVSLYYYYSKIAGQLKDPGTPDQFLQNFLLKGEVQFGSDFDHIKGWIRMQENFLFITYEEL
 QQDLRGSVQRICEFLGRPLGEEALSSVVAHSAFAAMKANTMSNYSLLPASLLDHRQGEFLRKGISGDWKN
 HFTVAQSEAFDSVYREQMHGVQRFPPWDTSEEDSSPDGQPDPEPSPSPASDDPNPGSSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1705_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017465

ORF Size: 1014 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_017465.3](#)

RefSeq Size: 1127 bp

RefSeq ORF: 1017 bp

Locus ID: 54200

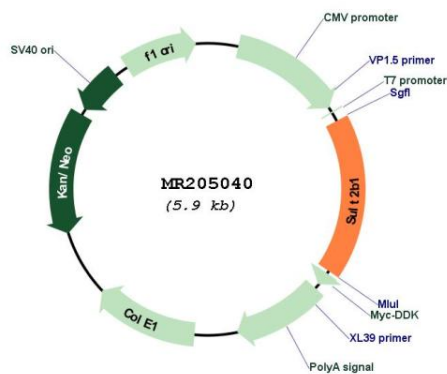
UniProt ID: [O35400](#)

Cytogenetics: 7 B3

MW: 38.8 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 hydroxysteroids such as dehydroepiandrosterone. Isoform 1 is required for production of cholesterol sulfate essential for normal skin development whereas isoform 2 produces pregnenolone sulfate, an essential neurosteroid during development of the central nervous system. Plays a role in epidermal cholesterol metabolism and in the regulation of epidermal proliferation and differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205040