

Product datasheet for **MR203866**

Sult4a1 (NM_013873) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sult4a1 (NM_013873) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sult4a1
Synonyms:	2400007A17Rik; AI853543; BR-STL-1; ST4A1; Sultx3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203866 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGAGAGCGAAGCGGAGACCCCGGGCACCCCGGGCGAGTTCGAGAGCAAGTACTTCGAGTTCATG
GCGTGGGCTGCCGCCCTTCTGCCCGGGAAGATGGAGGATATCGCCGACTTCCCCTGCGGCCAGCGA
CGTGTGGATCGTCACCTACCCCAAGTCAGGTACAAGCTTGCTGCAAGAGGTGGTCTACTTGGTGAGCCAG
GGTGCCGACCCTGATGAAATCGGCTGATGAACATTGACGAGCAGCTGCCGGTGTGGAGTACCCACAGC
CGGGGCTGGACATCATCAAGGAAGTACATCTCCCGCCTCATCAAGAGCCACCTCCCCTACCGCTTCTCT
GCCTCTGACCTCCACAATGGGGACTCCAAGGTATCTACATGGCTCGCAACCCCAAGGACTTGGTGGTA
TCTTACTATCAGTTCACCGCTCGCTGCGGACCATGAGCTACCGAGGCACCTTCCAGGAGTTCGTGCGGA
GGTTCATGAATGACAAACTGGGCTACGGCTCCTGGTTGAGCATGTTTCAGGAATTCTGGGAACATCGAAT
GGATGCCAACGTGCTTTTCTTAAGTATGAAGACATGCACCGGACCTGGTGACCATGGTGGAGCAGCTG
GCCAGATTCTGGGTGTGTCTGTGATAAGGCCAGCTGGAGTCTTGATCGAGCACTGTACCAGCTGG
TGGATCAGTGTGCAATGCCGAGGCCCTGCCTGTGGTTCGGGGAAGAGTTGGGCTGTGGAAGGACATCTT
CACCGTCTCCATGAACGAGAAGTTTGTCTAGTGTACAAACAGAAGATGGGAAGTGTGACCTCACGTTT
GACTTTTATCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203866 protein sequence
Red=Cloning site Green=Tags(s)

MAESEAETPGTPEFESKYFEFHGVRLPPFCRGKMEDIADFVVRPSDVWIVTYPKSGTSLLEQEVVYLVSQ
 GADPDEIGLMNIDEQLPVLEYPQPLDIKELTSPRLIKSHLPYRFLPSDLHNGDSKVIYARNPKDLVV
 SYYQFHRSLRMTSYRGTQEFCCRFMNDKLYGGSWFQEFWEHRMDANVLFLLKYEDMHRDLVTMVEQL
 ARFLGVSCDKAQLLESLIEHCHQLVDQCCNAEALPVGRGRVGLWKDIFTVSMNEKFDLVYKQKMGKCDLTF
 DFYL

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_013873

ORF Size: 855 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_013873.3](#), [NP_038901.3](#)

RefSeq Size: 2446 bp

RefSeq ORF: 855 bp

Locus ID: 29859

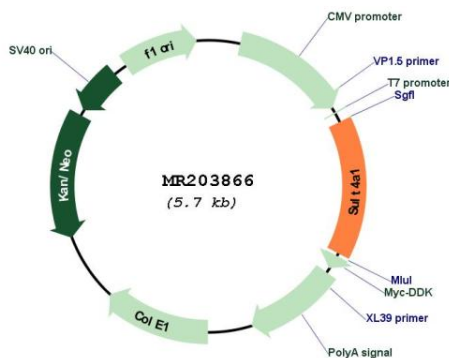
UniProt ID: [P63046](#)

Cytogenetics: 15 E2

MW: 33.1 kDa

Gene Summary: Atypical sulfotransferase family member with very low affinity for 3'-phospho-5'-adenylyl sulfate (PAPS) and very low catalytic activity towards L-triiodothyronine, thyroxine, estrone, p-nitrophenol, 2-naphthylamine, and 2-beta-naphthol. May have a role in the metabolism of drugs and neurotransmitters in the CNS.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203866