

## Product datasheet for **MG203866**

### Sult4a1 (NM\_013873) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sult4a1 (NM_013873) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sult4a1
Synonyms:	2400007A17Rik; AI853543; BR-STL-1; ST4A1; Sultx3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203866 representing NM_013873 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGGAGAGCGAAGCGGAGACCCCGGGCACCCCGGGCGAGTTCGAGAGCAAGTACTTCGAGTTCATG  
GCGTGC GGCTGCCGCCCTTCTGCCCGGGAAGATGGAGGATATCGCCGACTTCCCCTGCGGCCAGCGA  
CGTGTGGATCGTCACCTACCCCAAGTCAGGTACAAGCTTGCTGCAAGAGGTGGTCTACTTGGTGAGCCAG  
GGTGCCGACCCTGATGAAATCGGCCTGATGAACATTGACGAGCAGCTGCCGGTGTGGAGTACCCACAGC  
CGGGGCTGGACATCATCAAGGAAGTACATCTCCCGCCTCATCAAGAGCCACCTCCCCTACCGCTTCTCT  
GCCTCTGACCTCCACAATGGGGACTCCAAGGTATCTACATGGCTCGCAACCCCAAGGACTTGGTGGTA  
TCTTACTATCAGTTCACCGCTCGCTGCGGACCATGAGCTACCGAGGCACCTCCAGGAGTTCGTGCGGA  
GGTTCATGAATGACAAACTGGGCTACGGCTCCTGGTTTGAGCATGTTTCAGGAATTCTGGGAACATCGAAT  
GGATGCCAACGTGCTTTTCTTAAGTATGAAGACATGCACCGGGACCTGGTGACCATGGTGGAGCAGCTG  
GCCAGATTCTGGGTGTGTCTGTGATAAGGCCAGCTGGAGTCTTGATCGAGCACTGTACCAGCTGG  
TGGATCAGTGTGCAATGCCGAGGCCCTGCCTGTGGTTCGGGGAAGAGTTGGGCTGTGGAAGGACATCTT  
CACCGTCTCCATGAACGAGAAGTTTGATCTAGTGTACAAACAGAAGATGGGAAGTGTGACCTCACGTTT  
GACTTTTATCTA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203866 representing NM\_013873  
 Red=Cloning site Green=Tags(s)

MAESEAETPGTPEFESKYFEFHGVRLPPFCRGKMEDIADFPVRPSDVWIVTYPKSGTLLQEVVYLVSQ  
 GADPDEIGLMNIDEQLPVLEYPQPLDIKELTSPRLIKSHLPYRFLPSDLHNGDSKVIYMARNPKDLVV  
 SYYQFHRSLRTMSYRGTQEFCCRFMNDKLYGGSWFQEFWEHRMDANVLFKLYEDMHRDLVTMVEQL  
 ARFLGVSCDKAQLLESLIEHCHQLVDQCCNAEALPVGRGRVGLWKDIFTVSMNEKFDLVYKQKMGKCDLTF  
 DFYL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013873

**ORF Size:** 852 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

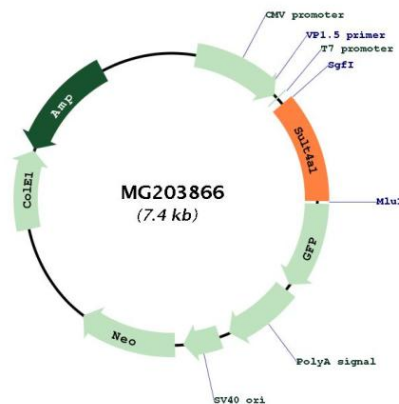
**Locus ID:** 29859

**UniProt ID:** [P63046](#)

**Cytogenetics:** 15 E2

**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 MG203866