

Product datasheet for MR221316

Sult2a1 (NM_00111296) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sult2a1 (NM_00111296) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sult2a1
Synonyms:	mSTa1; ST2A1; Std; Sth1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221316 representing NM_00111296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGTCAGACTATAATTGGTTTGAAGGCATACCTTTTCCTGCCATATCATATCAAAGAGAAATTTGG
AAGATATTCGTAATAAGTTTGTGGTGAAAGAAGAAGACTTGTGATATTAACCTACCCCAAGTCAGGAAC
GAACTGGCTGATTGAGATTGTATGCTTGATTGACACCAAGGGAGATCCGAAGTGGATCCAACTGTGCC
ATTTGGAACCGCTCACCTGGATAGAGACTGATATAGGATATTCTGCATTAATCAATAAGGAAGGACCAC
GACTCATAACCTCCCATCTTCCATCCATCTTCTCCAAGTCTTCTTCAGTTCCAAGGCAAGGCGAT
CTATCTCGTGAGAAATCCAGAGATATTCTGTGTCTGGTTACTTTTTCTGGGTAACACAAACCTGTG
AAGAATCCAGGGTCACTCGGAATTATTTGAATGGTTCCCTCAAAGGAAATGTTCTATTCGGATCATGGT
TTGAGCATGTTCTGGCTGGCTGTCCATGAGAGAATGGGACAACCTTTTGGTACTGTACTATGAAGACAT
AAAAAAGGATACAAAGGGAACCAAAAGAAGATCTGTGACTTCTAGGGAAAAATTTAGGGCCAGATGAG
CTGGATCTCGTCTCAAGTACAGCTCTTCCAAGCCATGAAAGAAAAACAACATGTCCAATTTTAGTCTCA
TTAAGGAAGATCAGGTTACTAATGGCTTGAAGCTCATGAGAAAAGGCACAATTGGGGACTGGAAGAATCA
CTTCACAGTAGCCCAAGCTGAAGCCTTCGATAAAGTTTCCAGGAGAAAAATGGCTGGATTCCCCCAGGG
ATTTTCCATGGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221316 representing NM_001111296
Red=Cloning site Green=Tags(s)

MMSDYNWFEGIPFPAISYQREILEDIRNKFVVKEEDLLILTYPKSGTNWLIIEIVCLIQTKGDPKWIQTVP
 IWNRSPWIETDIGYSALINKEGPRITSHLPIHLFSKSFSSKAKAIYLRNRPDILVSGYFFWGNLNLV
 KNPGSLGTYFEWFLKGNVLFGSWFHEVRGWLMSREWDNFLVLYYEDIKKDTKGTIKKICDFLGKNLGPDE
 LDLVLKYSSFQAMKENMSNFSLIKEDQVTNGLKLMRKGTIGDWKNHFTVAQAEAFDKVFQEKMAGFPPG
 IFPWE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9058_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



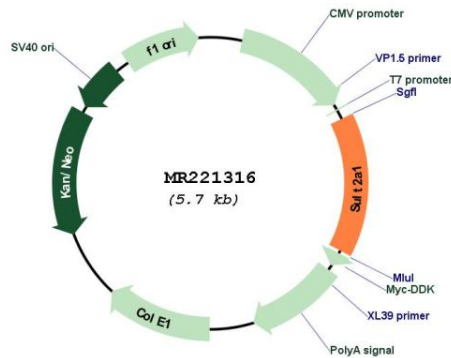
ACCN: NM_001111296

ORF Size: 855 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_001111296.2</u> , <u>NP_001104766.1</u>
RefSeq Size:	1021 bp
RefSeq ORF:	858 bp
Locus ID:	20859
UniProt ID:	<u>P52843</u>
Cytogenetics:	7 8.02 cM
MW:	33.2 kDa
Gene Summary:	This is one of seven sulfotransferase family 2A genes in a chromosome 7 A1 cluster. [provided by RefSeq, May 2010]

Product images:


Circular map for MR221316