

Product datasheet for **RR204785**

Sult1a1 (NM_031834) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sult1a1 (NM_031834) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sult1a1
Synonyms:	ASTIV; Mx-ST; PST-1; St1a1; Stm; Stp1; Sult1a3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR204785 representing NM_031834 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTTCTCCCGTCCACCGCTAGTGCATGTGAAGGGTATCCCACTCATCAAATACTTTGCAGAGACAA
TTGGGCCATTGCAGAACTTCACAGCCTGGCCTGATGACTTGCTGATCAGCACATACCCAAAGTCTGGTAC
TACCTGGATGAGTGAGATCCTGGATATGATCTATCAGGGTGGCAAGCTAGAGAAGTGTGGCCGCGCCCC
ATCTATGCCCGGGTACCCTTCTTGAGTTCAAATGTCCAGGGTTCCTCAGGTCTTGAACTTTGGAAG
AGACACCAGCCCCACGGCTCCTTAAGACACATCTGCCCTGTCTTGCTCCCTCAGAGTCTGCTGGATCA
GAAGGTCAAGGTGATCTACATTGCCGAAATGCAAAGGATGTGGTGTCTCTATTATAACTTCTACAAC
ATGGCCAAGTGCACCCTGATCCAGGCACCTGGGACAGCTTCTTGAGAACTTCATGGATGGGGAAGTGT
CCTATGGGTGCTGGTACCAGCACGTGAAGGAGTGGTGGGAGCTGAGACACACTCACCTGTTCTCTATCT
CTTCTATGAAGACATAAAGGAGAACCCAAAAGGGAGATCAAGAAGATTCTAGAGTTTTTGGGGCGCTCT
CTACCCGAGGAGACTGTGGATTCATTGTTACCACACATCTTTCAAGAAAATGAAAGAGAACTGCATGA
CTAACTACACAACCATCCCCTGAGATTATGGACCACAATGTTTCTCCCTTCATGAGGAAAGGTACTAC
TGGGGACTGGAAAAATACCTTCACTGTAGCCAGAATGAGCGCTTTGATGCCACTATGCTAAGACAATG
ACAGATTGTGACTTCAAGTTTCGTTGTGAACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204785 representing NM_031834
 Red=Cloning site Green=Tags(s)

MEFSRPPLVHVKGIPLIKIFAETIGPLQNFTAWPDDLLISTYPKSGTTWMSEILDMIYQGGKLEKCGRAP
 IYARVPFLFKCPGVPSGLETLEETPAPRLKTHLPLSLLPQSLLDQKVKVIYIARNAKDVVVSYYNFYN
 MAKLHPDPGTWDSFLENFMDGEVSYGSWYQHVKEWELRHHPVLYLFYEDIKENPKREIKKILEFLGRS
 LPEETVDSIVHHTSFKKMKENCMTNYTTIPTEIMDHNVSPPMRKGTGDWKNFTTVAQNERFDAHYAKTM
 TDCDFKFRCEL

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_031834

ORF Size: 873 bp

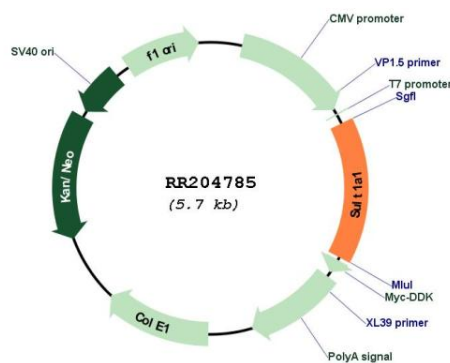
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	NM_031834.1 , NP_114022.1
RefSeq Size:	1227 bp
RefSeq ORF:	876 bp
Locus ID:	83783
UniProt ID:	P17988
Cytogenetics:	1q36
MW:	33.9 kDa
Gene Summary:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of catecholamines, phenolic drugs and neurotransmitters. Has also estrogen sulfotransferase activity. responsible for the sulfonation and activation of minoxidil. Is Mediates the metabolic activation of carcinogenic N-hydroxyarylamines to DNA binding products and could so participate as modulating factor of cancer risk. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR204785