

Product datasheet for **RR207346**

Sult2a1 (NM_131903) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sult2a1 (NM_131903) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sult2a1
Synonyms:	Smp-2; St2; St2a1; STa; Sth2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207346 representing NM_131903 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGACTATACTTGGTTTGAAGGAATACCTTTTCATGCCTTTGGGATTTCAAAGAACTTTGCAA
ATGTTTGAATAAGTTTGTGGTGAAGAAGAAGATTTGATTTTATTGGCTTATCCAAGTCAGGAACGAA
CTGGCTGATTGAAATTGTCTGCTTGATTCAGACCAAGGGAGATCCAAGTGGATCCAATCTGTGACTATC
TGGGATCGCTCACCTGGATAGAGACTGATGTAGGATATGATATATTAATCAAAAAGAAAGACCAGCAGC
TCATGACCTCCATCTTCCCATGCATCTTTTCTCCAAGTCTCTTTCAGTTCCAAGGCCAAGGTGATCTA
TCTCATCAGAAATCCCAGAGATGTTCTTGTCTTCTGGTTATTATTTCTGGGGTAATCAACTCTTGTGAAG
AAGCCAGACTCACTGGGAACCTTATGTTGAATGGTTCCTCAAAGGAAATGTTCTATATGGATCATGGTTTG
AGCACATCCGTGCCTGGCTGTCCATGCGAGAATGGGACAACCTTCTGTTACTGTACTATGAAGACATGAA
AAAGGATACAATGGGAACCATAAAGAAGATATGTGACTTCTGGGGAAAAAATTAGAGCCAGATGAGCTG
GATTTGGTCTCAAGTATAGTTCCTTCCAAGTCATGAAAGAAAAATGACATGTCCAATTATAGCCTCTGA
TGAAAAAATCAATTTTACTGGAATTGGCCTCATGAGGAAAGGCACTATTGGGGACTGGAAGAATCACTT
CACTGTATCCCAAGCTGAAGCCTTTGATAAAGTGTTTCAGGAGAAAATGGCCGGTTTCCCTCCAGGGATG
TCCCATGGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207346 representing NM_131903
 Red=Cloning site Green=Tags(s)

MPDYTWFEIGIPFHAFGISKETLQNVCKNFVVKEEDLILLAYPKSGTNWLIEIVCLIQTKGDPKWIQSVTI
 WDRSPWIETDVGVDILIKKKGPRLMTSHLPMHLFSKSLFSSKAKVIYLIRNPRDVLVSGYYFWGNSTLVK
 KPDSLGTYYVEWFLKGNVLYGSWFEHIRAWLSMREWDFLLLYEDMKKDTMGTIKKICDFLGKKLEPDEL
 DLVLKYSSFQVMKENDMSNYSLLMKKSIFTGIGLMRKGTIGDWKNHFTVSQAEAFDKVFQEKMAGFPPGM
 FPWE

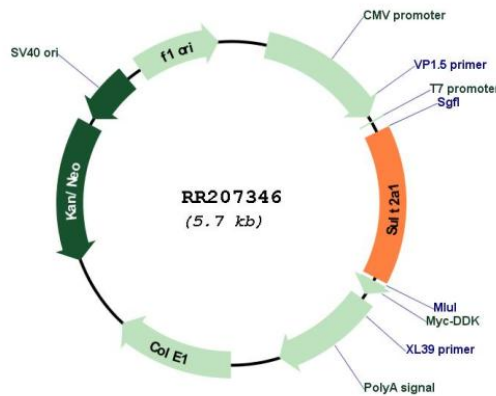
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_131903

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:	<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_131903.1 , NP_571978.1
RefSeq Size:	1000 bp
RefSeq ORF:	855 bp
Locus ID:	24912
UniProt ID:	P15709
Cytogenetics:	1q21
MW:	33.2 kDa
Gene Summary:	catalyses the metabolic activation of potent carcinogenic polycyclic arylmethanols [RGD, Feb 2006]