

Product datasheet for **SC307103**

SULT1A1 (NM_177536) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1A1 (NM_177536) Human Untagged Clone
Tag:	Tag Free
Symbol:	SULT1A1
Synonyms:	HAST1/HAST2; P-PST; P-PST 1; PST; ST1A1; ST1A3; STP; STP1; ts-PST; TSPST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307103 representing NM_177536. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGGCCAAGTTGCTGTGCGACCAGGTGGTCGGTGCGCCATCGCGGTCTCGGCTTCTACGCCGGT
ATGAGCATTCTCCAGGAAAGGATGACATATTTTGGACCTGAAACAGAAATTCTGGAACACCTATATG
GTGGTCTATGTTGCCCGCAACGCAAGGATGTGGCAGTTTCTACTACCACTTCTACCACATGGCCAAG
GTGCACCCTGAGCCTGGGACCTGGGACAGCTTCTGGAGAAGTTCATGGTCGGAGAAGTGCCTACGGA
TCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGCACCCACCCTGTTCTACCTCTTCTAT
GAAGACATGAAGGAGAACCCGAAAAGGGAGATTCAAAGATCCTGGAGTTTGTGGGGCGCTCCCTGCCA
GAGGAGACCGTGGACTTCGTGGTTCAGCACACGTCGTTCAAGGAGATGAAGAAGAACCCTATGACCAAC
TACACCACCGTCCCCAGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAGGAAAGGCATGGCTGGG
GACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTATGCGGAGAAGATGGCA
GGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_177536
Insert Size:	654 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_177536.3
RefSeq Size:	1291 bp
RefSeq ORF:	654 bp
Locus ID:	6817
UniProt ID:	P50225
Cytogenetics:	16p11.2
Protein Pathways:	Sulfur metabolism
MW:	25.4 kDa
Gene Summary:	<p>Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. This gene encodes one of two phenol sulfotransferases with thermostable enzyme activity. Multiple alternatively spliced variants that encode two isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (5) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1, which causes the predicted protein (isoform b) to be shorter than isoform a. The predicted ORF of this rare transcript has not been experimentally confirmed.</p>