

Product datasheet for **SC119452**

SULT1A1 (NM_001055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1A1 (NM_001055) 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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119452 sequence for NM_001055 edited (data generated by NextGen Sequencing)

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ATGGAGCTGATCCAGGACACCTCCCGCCGCCACTGGAGTACGTGAAGGGGGTCCCCTGCT
ATCAAGTACTTTGCAGAGGCACTGGGGCCCTGCAGAGCTTCCAGGCCCGCCTGATGAC
CTGCTCATCAGCACCTACCCCAAGTCCGGCACTACCTGGGTAAGCCAGATTCTGGACATG
ATCTACCAGGGTGGTACCTGGAGAAGTGTACCGAGCTCCCATCTTCATGCGGGTGCC
TTCCTTGAGTTCAAAGCCCCAGGGATTCCCTCAGGGATGGAGACTCTGAAAGACACCCG
GCCCCACGACTCCTGAAGACACACCTGCCCTGGCTCTGCTCCCCAGACTCTGTTGGAT
CAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCTACTAC
CACTTCTACCACATGGCCAAGGTGCACCCTGAGCCTGGGACCTGGGACAGCTTCTGGAG
AAGTTCATGGTCGGAGAAGTGTCTACGGATCCTGGTACCAGCACGTGCAGGAGTGGTGG
GAGCTGAGCCGCACCCACCCTGTTCTCTACCTTCTATGAAGACATGAAGGAGAACCCG
AAAAGGGAGATTCAAAAGATCCTGGAGTTTGTGGGGCGCTCCCTGCCAGAGGAGACCGTG
GACTTCATGGTTCAGCACACGTGTTCAAGGAGATGAAGAAGAACCCTATGACCAACTAC
ACCACCGTCCCCAGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAGGAAAGGCATG
GCTGGGGACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTAT
GCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGA
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Clone variation with respect to NM_001055.3
667 g=>a



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001055 unedited GGACCGCGGGCCGCAATCTAGAGTCGAGTTAAAA ATTGGTTTTATTTTATTTTATTTTAAACAGAATCTCACTATGTTGCCAGGTTGGTCT CGAACTCCTGGGCTCAAATGATCCTCCACCTCAGCCTCAAATTGCTGGGATTACAGAC ATGACCTACCGTCCCGGGCCCTCAATTCATATTTATTCTTGAGCCGCTTGGTCAGGTTT GATTCGCACACTCCCTCTGCAGTGACTCCAGGAGCCCTCTCACAGCTCAAAGCGGAAGC TGAGGCTGCAGCCTGCCATCTTCTCCGCATAGTCCGCATCGAAGCGCTCATTCTGCGCCA CGGTGAAGGTGGTCTTCCAGTCCCAGCCATGCCTTTCCTCATGAAGGGGAGATGCTGT GGTCCATGAACCTCTGGGGACGGTGGTGTAGTTGGTCATAGGGTTCTTCTTCATCTCT TGAACGACGTGTGCTGAACCATGAAGTCCACGGTCTCCTCTGGCAGGGAGCGCCCCACAA ACTCCAGGATCTTTGAATCTCCCTTTTCGGGTTCTGAGCAGCAGAGGGCCCTCAGTGG AGGCTCGGATTACTGATTCAGGAAAAGTAAAAGGGTCCCCTTCTAACCTCAGAGGCG ATCTGGCCACTTCTCTAGAAACCCTGCAGAGCCAACCTCAACCCCCAGGGCCCCAGT CCCGGGGTAAAAGAATTGCTGTCTGCCCTGTGATCCCATCATGAGCTGGGCTTGGGCT CTATGGGTGANGACCGTGTGGTCTTCTTGTGACTGTGGCCCTGGGTAGCACACCCTT TGCCAGGNAGTAGCATAGACTAAGTTCTGATCCGGGCCCCCATGCAGCTGACTCAGTGC GAAAGAGAAAGCTGGTTGGNCCGCTTGCCAGTGGGCC
Restriction Sites:	ECoRI-NOT
ACCN:	NM_001055
Insert Size:	2450 bp
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).
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_001055.2 , NP_001046.2
RefSeq Size:	1222 bp
RefSeq ORF:	888 bp
Locus ID:	6817
UniProt ID:	P50225
Cytogenetics:	16p11.2
Domains:	Sulfotransfer
Protein Pathways:	Sulfur metabolism

Gene Summary:

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] Transcript Variant: This variant (1) is the predominant transcript. Variants 1, 2, 3 and 4 encode the same isoform (a).