

Product datasheet for **SC107010**

SULT1A1 (NM_177529) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1A1 (NM_177529) Human Untagged Clone
Tag:	Tag Free
Symbol:	SULT1A1
Synonyms:	HAST1/HAST2; P-PST; P-PST 1; PST; ST1A1; ST1A3; STP; STP1; ts-PST; TSPST1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_177529, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGATCCAGGACACCTCCCGCCCGCCACTGGAGTACGTGAAGGGGGTCCCCTCATCAAGTACT
TTGCAGAGGCACTGGGGCCCTGCAGAGCTTCCAGGCCCGCCTGATGACCTGCTCATCAGCACCTACCC
CAAGTCCGGCACTACCTGGTAAGCCAGATTCTGGACATGATCTACCAGGGTGGTACCTGGAGAAGTGT
CACCGAGCTCCCATCTTCATGCGGGTGCCTTCCCTTGAGTTCAAAGCCCCAGGGATTCCTCAGGGATGG
AGACTCTGAAAGACACACCGGCCCCAGCACTCCTGAAGACACACCTGCCCTGGCTCTGTCCTCCAGAC
TCTGTTGGATCAGAAGGTCAAGTGGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCTACTAC
CACTTCTACCACATGGCCAAGGTGCACCCTGAGCCTGGGACCTGGGACAGCTTCTGGAGAAGTTCATGG
TCGGAGAAGTGTCTACGGATCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGACCCACCC
TGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCGAAAAGGGAGATTCAAAAGATCCTGGAGTTT
GTGGGGCGCTCCCTGCCAGAGGAGACCGTGGACTTCGTGGTTCAGCACACGTCGTTCAAGGAGATGAAGA
AGAACCCTATGACCAACTACACCACCGTCCCCAGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAG
GAAAGGCATGGCTGGGGACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTAT
GCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_177529 unedited
 AACTGGGGTTCNCAATCCCGNCTGTGGGGCGGTAGGAAAGTCCGGTGGGAGGTCTATAT
 AAGCAGAGCTCGTTTAGTGAACCGTCAAGATTTTGTAAATACGACTCACTATAGGGCGGCC
 GCGAATTCGGCACCAGCAGCTCAGAGAACAACCTGCATTCCCCACACAGCACCCACAAT
 CAGCCACTGCGGGCGAGGAGGGCACGAGGCCAGTTTTTTTTAGCTCAGGAACATGGAGC
 TGATCCAGGACACCTCCCGCCGCCACTGGAGTACGTGAAGGGGGTCCCGCTCATCAAGT
 ACTTTGCAGAGGCACTGGGGCCCTGCAGAGCTCCAGGCCCGCCTGATGACCTGCTCA
 TCAGCACCTACCCCAAGTCCGGCACTACCTGGGTAAAGCCAGATTCTGGACATGATCTACC
 AGGGTGGTGACCTGGAGAAGTGTACCCGAGCTCCCATCTTCATGCGGGTGCCCTTCTTG
 AGTTCAAAGCCCCAGGGATTCCCTCAGGGATGGAGACTCTGAAAGACACACCGGCCCCAC
 GACTCCTGAAGACACACCTGCCCTGGCTCTGCTCCCCAGACTCTGTTGGATCAGAAGG
 TCAAGGTGGTCTATGTTGCCCGCAACGCANAGGATGTGGCAGTTTCTACTACCCTTCT
 ACCACATGGCCAATGTGCACCCTGAGCCTGGGACCTGAGACAGCTTCTGGAGAAAGTCA
 TGGTCGGAGAAGTCTCTACGGATCCTGGTACCAGCACGTGCCAGAGTGGTGGGAGCTGA
 GCCGCACCCACCCTGTNCTCTACCTCTTCTATGAAGACATGAAGGGAGAACCCGANAGGG
 AGATTCAAAAGATCCTGGGAGTTTGTGGGGCGCTCCCTGGCCAGAGGAGACCCGGGACTT
 CATGGGTCANACACGCTCGTTCAAGGAGATGAAGAAAGACCCATGACCCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_177529 unedited
 GGGTATTTTNGGCCCGCATTNCACATTTTATNCTTGNANCCGCTTGGTCAGGTTTGATTC
 GCACACTCCCTCTGCAGTGACTCCAGNAGCCCCTCTCACAGCTCAGAGCGGAAGCTGAGG
 CTGCAGCCTGCCATCTTCTCCGCATAGTCCGCATCGAAGCGCTCATTCTGCGCCACGGTG
 AAGGTGGTCTTCCAGTCCCAGCCATGCCTTTCCTCATGAAGGGGGAGATGCTGTGGTCC
 ATGAACTCCTGGGGACGGTGGTGTAGTTGGTCATAGGGTTCTTCTTCATCTCCTTGAAC
 GACGTGTGCTGAACCATGAAGTCCACGGTCTCCTCTGGCAGGGAGCGCCCAAACTCC
 AGGATCTTTTGAATCTCCCTTTTCGGGTCTCCTTCATGTCTTCATAGAAGAGGTAGAGA
 ACAGGGTGGGTGCGGCTCAGTCCCACCACTCCTGCACGTGCTGGTACCAGGATCCGTAG
 GACACTTCTCCGACCATGAACTTCTCCAGGAAGCTGTCCAGGTCCCAGGCTCAGGGTGC
 ACCTTGGCCATGTGGTAGAAGTGGTAGTAGGAACTGCCACATCCTTTGCGTTGCGGGCA
 ACATAGACCACCTTGACCTTCTGATCCAACAGAGTCTGGGGGAGCAGAGCCAGGGGCAGG
 TGTGTCTTTCAGAGTCTGTTGGGCCGGTGTGGCTTTCAGAGTCTTCATCCCTGAAGGAATC
 CCTTGGGGTTTTGAACTCCAGGAAGGGCACCCCCATAAATAAGGGAACCTCGGGGAACC
 TTTTCCCGGGCACCCCTGGGGAAATATGGCCAAAAAATGGGTTTACCCCAATTTT
 TCCCCCCCTCGGTGGAAGGGCCCTTATAAAAAAAAAAATAAAAAGCCGGGGCCCGTGTG
 ATTTTCTTTGGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_177529

Insert Size:

1250 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:

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_177529.1](#), [NP_803565.1](#)

RefSeq Size: 1253 bp

RefSeq ORF: 888 bp

Locus ID: 6817

UniProt ID: [P50225](#)

Cytogenetics: 16p11.2

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 (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same isoform (a).