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Product datasheet for SC124608

SULT1A1 (NM_177534) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1A1 (NM_177534) 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:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_177534, the custom clone sequence may differ by one or more nucleotides

ATGGAGCTGATCCAGGACACCTCCCGCCCGCCACTGGAGTACGTGAAGGGGGTCCCGCTCATCAAGTACT
TTGCAGAGGCACTGGGGCCCCTGCAGAGCTTCCAGGCCCGGCCTGATGACCTGCTCATCAGCACCTACCC
CAAGTCCGGCACTACCTGGGTAAGCCAGATTCTGGACATGATCTACCAGGGTGGTGACCTGGAGAAGTGT
CACCGAGCTCCCATCTTCATGCGGGTGCCCTTCCTTGAGTTCAAAGCCCCAGGGATTCCCTCAGGGATGG
AGACTCTGAAAGACACACCGGCCCCACGACTCCTGAAGACACACCTGCCCCTGGCTCTGCTCCCCCAGAC
TCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCCTACTAC
CACTTCTACCACATGGCCAAGGTGCACCCTGAGCCTGGGACCTGGGACAGCTTCCTGGAGAAGTTCATGG
TCGGAGAAGTGTCCTACGGATCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGCACCCACCC
TGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCGAAAAGGGAGATTCAAAAGATCCTGGAGTTT
GTGGGGCGCTCCCTGCCAGAGGAGACCGTGGACTTCGTGGTTCAGCACACGTCGTTCAAGGAGATGAAGA
AGAACCCTATGACCAACTACACCACCGTCCCCCAGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAG
GAAAGGCATGGCTGGGGACTGGAAGACCACCTTCACCGTGGCGCAGAATGAGCGCTTCGATGCGGACTAT
GCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGA

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_177534 unedited
GGCGGCCGCGTGCAATGCTGCACCAGGTTGGTCTCCAACTCCTGGCCTCAGCCTCCCTAG
GTCTGGGATTATGGGTGGGAGCCACCCTGCCTAGGCCTGTGCTTTTGCTGAGTCATCAGA
GTTTTGTTCATTCCCACAGCAGCTCTGGCCCCTAGTAGCAGCTCAGTTCCTCAATGGGCC
GTGTTTGTCCTGGAGCCCAGATGGACTGTGGCCAGGCAAGTGGATCACAGGCCTGGCTGG
CCTGGGCGGTTTCCACATGTGAGGGGCTGAGGGGCTCAAGGAGGGGAGCATCTCCACTGG
GTGGAGGCTGGGGGTCCCAGCAGGAAGTGGTGAGACAAAGGGCGCTGGCTGGCAGGGAGA
CAGCACAGGAAGGTCCTAGAGCTTCCTCAGTGCAGCTGGACTCTCCTGGAGACCTTCACA
CACCCTGACATCTGGGCCTTGCCCGACGAGGGTGCTTTCACTGGTCTGCACCATGGCCCA
GGCCCTGAGATTTTGAACAGCTCCGCAGGTGAATGAAAGGTGAGGCCAGGCTGGGGAACC
ACCGCATTAGAGCCCGACCTGGTTTTCAGCCCCAGCCCCGCCACTGAGTGGCTNTGTGAG
TGCGGGCAAGTCACTCAGCCTCCCTTAGCCTCAGTGACTTTCCCTGANAGCAGAAATCCA
CTNTCTTTGCTGTGTGATGGTGGTAAGGGAAACGGGCCTGCTCTGGCCCCTGACGCANGA
ACATGGAGCTGATCCANGACACCTCCCGCCCGCCACTGGAGTACGTGAAAGGGGTCCCGC
TCATCAAGTACTTTGCAAAGGCACTGGNGCCCNTGCANAGCTTNCAGCCCGGCCTGATGA
CCTGCTCTNANCACCTCACCCAGTCCGGCACTACTGGGTAGCCAGATCTGGACTGATCAC
CAGGTTNTGACTGNAGATGGTC
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Restriction Sites: NotI-NotI

ACCN: NM_177534

Insert Size: 1930 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_177534.1, NP_803878.1

RefSeq Size: 1598 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 (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.