

## Product datasheet for **SC107017**

### CSPS (SULT1A3) (NM\_177552) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CSPS (SULT1A3) (NM_177552) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSPS
Synonyms:	HAST; HAST3; M-PST; ST1A3; ST1A3/ST1A4; ST1A4; ST1A5; STM; TL-PST
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_177552, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGATCCAGGACACCTCCCGCCCGCCACTGGAGTACGTGAAGGGGGTCCCGCTCATCAAGTACT
TTGCAGAGGCACTGGGGCCCTGCAGAGCTTCCAAGCCGACCTGATGACCTGCTCATCAACACCTACCC
CAAGTCTGGCACCACCTGGGTGAGCCAGATACTGGACATGATCTACCAGGGCGGCGACCTAGAGAAGTGT
AACCGGGCTCCCATCTACGTACGGGTGCCCTTCCCTTGAGGTCAATGATCCAGGGGAACCCCTCAGGGCTGG
AGACTCTGAAAGACACACCGCCCCACGGCTCATCAAGTCACACCTGCCCTGGCTCTGCTCCCTCAGAC
TCTGTTGGATCAGAAGGTCAAGGTGCTATGTTGCCGAAACCCAAAGGACGTGGCGGTCTCCTACTAC
CATTTCCACCGTATGAAAAGGGCGACCCTGAGCCTGGGACCTGGGACAGCTTCTTGAAAAGTTTCATGG
CTGGAGAAGTGTCTACGGTCCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGACCCACCC
TGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCAAAAGGGAGATTCAAAAGATCCTGGAGTTT
GTGGGGCGCTCCCTGCCAGAGGAGACCATGGACTTCATGGTTCAGCACACGTCGTTCAAGGAGATGAAGA
AGAACCCTATGACCAACTACACCACCGTCCCCAGGAGCTCATGGACCACAGCATCTCCCCCTTCATGAG
GAAAGGCATGGCTGGGGACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTAT
GCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_177552 unedited TTCGGCACGAGGGAAGACTCAGAATTAGAAGAGAACATGGAGCTGATCCAGGACACCTCC CGCCCCCACTGGAGTACGTGAAGGGGTCCCCTCATCAAGTACTTTGCAGAGGCACTG GGGCCCCGTCAGAGCTTCCAAGCCGACCTGATGACCTGCTCATCAACACCTACCCCAAG TCTGGCACCACCTGGGTGAGCCAGATACTGGACATGATCTACCAGGGCGGCGACCTAGAG AAGTGTAACCGGGCTCCCATCTACGTACGGGTGCCCTTCCTTGAGGTCAATGATCCAGGG GAACCCCTCAGGGCTGGAGACTCTGAAAGACACACCGCCCCACGGCTCATCAAGTCACAC CTGCCCTGGCTGCTCCCTCAGACTCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTT GCCCGAAACCCAAAGGACGTGGCGGTCTCTACTACCATTTCACCGTATGGAAGGCG CACCTGAGCCTGGGACCTGGGACAGCTTCTGGAAAAGTTCATGGCTGGGAGAAGTGTC CTACGGGTCTGGTACCAGCACGTGCGGANTGGGGGGGAACTTGACCCGCACCCAAACC TGTTCTCTACCTTTCTATGAAGACATGAAGGAGAACCCCAAAGGGAGATTCANNAGATC TGGAGTTTGTGGGGCGCTCCTGCCAGAGGAGACCATGGGACTTCATGGTTTCAGCACACG TCGTTCAAGGAGATGAAGAAAAACCTATGACCAACTACACCACCGTCCCCAGGAGCTA TGGACCACAGCATCTCCCCTCATGAAGAAAGGCATGGGCTGGGGACTGGAANAACAACC TTACCGTGGCGCAAAGAGCGCTTCG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_177552
<b>Insert Size:</b>	1100 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_177552.2</a></u> , <u><a href="#">NP_808220.1</a></u>
<b>RefSeq Size:</b>	1421 bp
<b>RefSeq ORF:</b>	888 bp
<b>Locus ID:</b>	6818
<b>UniProt ID:</b>	<u><a href="#">P50224</a></u>
<b>Cytogenetics:</b>	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 a phenol sulfotransferase with thermolabile enzyme activity. Four sulfotransferase genes are located on the p arm of chromosome 16; this gene and SULT1A4 arose from a segmental duplication. This gene is the most centromeric of the four sulfotransferase genes. Read-through transcription exists between this gene and the upstream SLX1A (SLX1 structure-specific endonuclease subunit homolog A) gene that encodes a protein containing GIY-YIG domains. [provided by RefSeq, Nov 2010]