

Product datasheet for RC218162

CSPS (SULT1A3) (NM_177552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSPS (SULT1A3) (NM_177552) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CSPS
Synonyms:	HAST; HAST3; M-PST; ST1A3; ST1A3/ST1A4; ST1A4; ST1A5; STM; TL-PST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218162 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGATCCAGGACACCTCCCGCCGCCACTGGAGTACGTGAAGGGGTCCCGCTCATCAAGTACT
TTGCAGAGGCACTGGGGCCCTGCAGAGCTTCCAGGCCGACCTGATGACCTGCTCATCAACACCTACCC
CAAGTCTGGCACCACCTGGGTGAGCCAGATACTGGACATGATCTACCAGGGCGGCGACCTAGAGAAGTGT
AACCGGGCTCCCATCTACGTACGGGTGCCCTTCCCTTGAGGTCAATGATCCAGGGGAACCTCAGGGCTGG
AGACTCTGAAAGACACACCGCCCCACGGCTCATCAAGTACACCTGCCCTGGCTCTGCTCCCTCAGAC
TCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCGAAACCCAAAGGACGTGGCGGTCTCCTACTAC
CATTTCCACCGTATGGAAAAGGCGACCCTGAGCCTGGGACCTGGGACAGCTTCTTGAAAAGTTTCATGG
CTGGAGAAGTGTCTACGGGTCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGACCCACCC
TGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCAAAAGGGAGATTCAAAGATCTCTGGAGTTT
GTGGGGCGCTCCCTGCCAGAGGAGACCATGGACTTCATGGTTCAGCACACGTCTGTTCAAGGAGATGAAGA
AGAACCCTATGACCAACTACACCACCGTCCCCAGGAGCTCATGGACCACAGCATCTCCCCTTCATGAG
GAAAGGCATGGCTGGGGACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTAT
CGGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC218162 protein sequence
Red=Cloning site Green=Tags(s)

MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDLLINTYPKSGTTWVSQILDMIYQGGDLEKC
 NRAPIYVRVPFLEVNDPGEPSGLETCLKDTPPRLIKSHLPLALLPQTLLDQKVKVYVARNPKDVAVSYY
 HFHRMEKAHPEPGTWDSFLEKFMAGEVSYGSWYQHVQEWELSRTHPVL YLFYEDMKENPKREIQKILEF
 VGRSLPEETMDFMVQHTSFKEMKKNPMTNYTTVPQELMDHSISPFMRKGMAGDWKTTFTVAQNERFDADY
 AEKMAGCSLSFRSEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6377_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177552

ORF Size: 885 bp

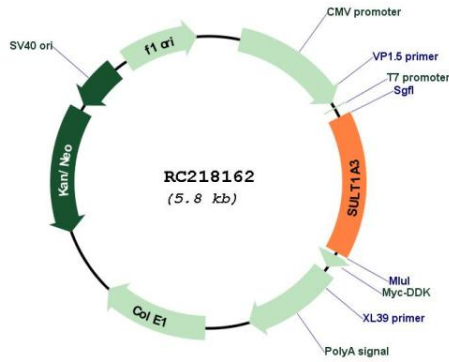
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

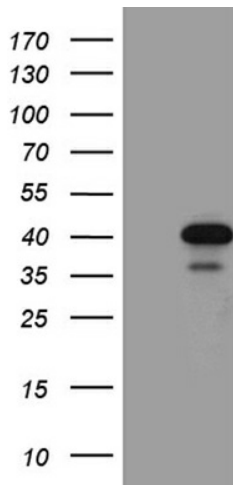
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_177552.4
RefSeq Size:	1408 bp
RefSeq ORF:	888 bp
Locus ID:	6818
UniProt ID:	P50224
Cytogenetics:	16p11.2
Protein Pathways:	Sulfur metabolism
MW:	34.2 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 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]</p>

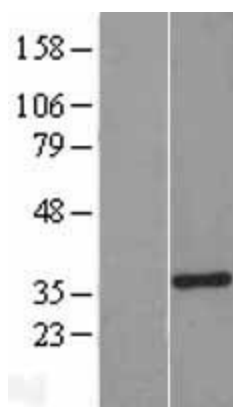
Product images:



Circular map for RC218162



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SULT1A3 (Cat# RC218162, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SULT1A3 (Cat# [TA811317])(1:2000). Positive lysates [LY430480] (100ug) and [LC430480] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY422768]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC219331] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).