

Product datasheet for **RG210772**

CSPS (SULT1A3) (NM_003166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSPS (SULT1A3) (NM_003166) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CSPS
Synonyms:	HAST; HAST3; M-PST; MGC117469; ST1A5; STM; SULT1A4; TL-PST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210772 representing NM_003166 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGCTGATCCAGGACACCTCCCGCCGCCACTGGAGTACGTGAAGGGGTCCCGCTCATCAAGTACT
TTGCAGAGGCACTGGGGCCCTGCAGAGCTTCCAAGCCGACCTGATGACCTGCTCATCAACACCTACCC
CAAGTCTGGCACCACCTGGGTGAGCCAGATACTGGACATGATCTACCAGGGCGGCACCTAGAGAAGTGT
AACCGGGCTCCCATCTACGTACGGGTGCCCTTCCTTGAGGTCAATGATCCAGGGGAACCCCTCAGGGCTGG
AGACTCTGAAAGACACACCGCCCCACGGCTCATCAAGTACACCTGCCCTGGCTCTGCTCCCTCAGAC
TCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCGAAACCCAAAGGACGTGGCGGTCTCCTACTAC
CATTTCCACCGTATGAAAAGGCGCACCCCTGAGCCTGGGACCTGGGACAGCTTCTTGAAAAGTTTCATGG
CTGGAGAAGTGTCTACTGGTCCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGACCCACCC
TGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCAAAAGGGAGATTCAAAGATCTCTGGAGTTT
GTGGGGCGCTCCCTGCCAGAGGAGACCATGGACTTCATGGTTCAGCACACGTCTGTTCAAGGAGATGAAGA
AGAACCCTATGACCAACTACACCACCGTCCCCAGGAGCTCATGGACCACAGCATCTCCCCTTCATGAG
GAAAGGCATGGCTGGGGACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTAT
GCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210772 representing NM_003166
 Red=Cloning site Green=Tags(s)

MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLINTYPKSGTTWVSQILDMIYQGGDLEKC
 NRAPIYVRVPFLEVNDPGEPSGLETCLKDTPPPRLIKSHLPLALLPQTLLDQKVKVYVARNPKDVAVSYY
 HFHRMEKAHPEPGTWDSFLEKFMAGEVSYWSYQHVQEWELSRTHPVL YLFYEDMKENPKREIQILEF
 VGRSLPEETMDFMVQHTSFKEMKKNPMTNYTTVPQELMDHSISPFMRKGMAGDWKTTFTVAQNERFDADY
 AEKMAGCSLSFRSEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003166

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:

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_003166.3](#), [NP_003157.1](#)

RefSeq Size: 1604 bp

RefSeq ORF: 887 bp

Locus ID: 6818

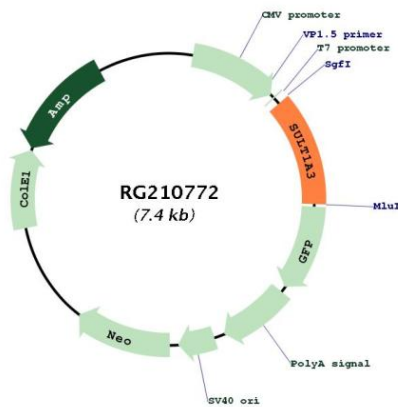
Cytogenetics: 16p11.2

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 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]

Product images:



Circular map for RG210772