

## OriGene Technologies, Inc.

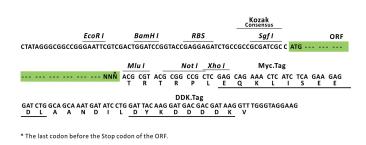
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## Product datasheet for RC218162L3

## CSPS (SULT1A3) (NM\_177552) Human Tagged Lenti ORF Clone

## **Product data:**

| Product Type:                | Expression Plasmids  |
|------------------------------|--|
| Product Name:                | CSPS (SULT1A3) (NM_177552) Human Tagged Lenti ORF Clone  |
| Tag:                         | Myc-DDK  |
| Symbol:                      | CSPS   |
| Synonyms:                    | HAST; HAST3; M-PST; ST1A3; ST1A3/ST1A4; ST1A4; ST1A5; STM; TL-PST                              |
| Mammalian Cell<br>Selection: | Puromycin  |
| Vector:                      | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| E. coli Selection:           | Chloramphenicol (34 ug/mL)   |
| ORF Nucleotide<br>Sequence:  | The ORF insert of this clone is exactly the same as(RC218162).                                 |
| <b>Restriction Sites:</b>    | Sgfl-Mlul  |
| Cloning Scheme:              |  |
|                              | Cloning sites used for ORF Shuttling:  |
|                              | Sgf1         ORF         Mlu I            GCG ATC GC         ATG//         NNN         ACG CGT |



ACCN: ORF Size: NM\_177552 885 bp



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| <b>ORIGENE</b> CSPS (  | SULT1A3) (NM_177552) Human Tagged Lenti ORF Clone – RC218162L3  |
|------------------------|---|
| 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. <u>More info</u>   |
| 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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>  |
| RefSeq:                | <u>NM 177552.2</u>  |
| RefSeq Size:           | 1408 bp   |
| RefSeq ORF:            | 888 bp  |
| Locus ID:              | 6818  |
| UniProt ID:            | <u>P50224</u>   |
| Cytogenetics:          | 16p11.2   |
| Protein Pathways:      | Sulfur metabolism   |
| MW:                    | 34.2 kDa  |
| Gene Summary:          | Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones,<br>neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different<br>in their tissue distributions and substrate specificities. The gene structure (number and<br>length of exons) is similar among family members. This gene encodes a phenol<br>sulfotransferase with thermolabile enzyme activity. Four sulfotransferase genes are located<br>on the p arm of chromosome 16; this gene and SULT1A4 arose from a segmental duplication.<br>This gene is the most centromeric of the four sulfotransferase genes. Read-through<br>transcription exists between this gene and the upstream SLX1A (SLX1 structure-specific<br>endonuclease subunit homolog A) gene that encodes a protein containing GIY-YIG domains.<br>[provided by RefSeq, Nov 2010] |

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