

## Product datasheet for **RG212198**

### **SULT1A1 (NM\_177534) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SULT1A1 (NM\_177534) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SULT1A1  
**Synonyms:** HAST1/HAST2; P-PST; P-PST 1; PST; ST1A1; ST1A3; STP; STP1; ts-PST; TSPST1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212198 representing NM\_177534  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCTGATCCAGGACACCTCCCGCCGCCACTGGAGTACGTGAAGGGGTCCCCTCATCAAGTACT  
 TTGCAGAGGCACTGGGGCCCTGCAGAGCTTCCAGGCCCGCCTGATGACCTGCTCATCAGCACCTACCC  
 CAAGTCCGGCACTACCTGGTAAGCCAGATTCTGGACATGATCTACCAGGGTGGTACCTGGAGAAGTGT  
 CACCGAGCTCCCATCTTCATGCGGGTGCCTTCCCTTGAGTTCAAAGCCCCAGGGATCCCTCAGGGATGG  
 AGACTCTGAAAGACACACCGGCCCCAGACTCCTGAAGACACACCTGCCCTGGCTCTGCTCCCCAGAC  
 TCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCTACTAC  
 CACTTCTACCACATGGCCAAGGTGCACCCTGAGCCTGGGACCTGGGACAGCTTCCCTGGAGAAGTTCATGG  
 TCGGAGAAGTGTCTACGGATCCTGGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGACCCACCC  
 TGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCGAAAAGGGAGATTCAAAAGATCTCTGGAGTTT  
 GTGGGGCGCTCCCTGCCAGAGGAGACCGTGGACTTCGTGGTTCAGCACACGTCGTTCAAGGAGATGAAGA  
 AGAACCTATGACCAACTACACCACCGTCCCCAGGAGTTCATGGACCACAGCATCTCCCCTTCATGAG  
 GAAAGGCATGGCTGGGGACTGGAAGACCACCTTACCCTGGCGCAGAATGAGCGCTTCGATGCGGACTAT  
 GCGGAGAAGATGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212198 representing NM\_177534  
Red=Cloning site Green=Tags(s)

MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLISTYPKSGTTWVSQILDMIYQGGDLEKC  
 HRAPIFMRVPFLEFKAPGIPSGMETLKDTPAPRLKTHLPLALLPQTLLDQKVKVYVARNAKDVAVSYY  
 HFYHMAKVHPEPGTWDSFLEKFMVGEVSYGWSYQHVQEWELSRTHPVL YLFYEDMKENPKREIQKILEF  
 VGRSLPEETVDFVVQHTSFKEMKKNPMTNYTTVPQEFMDHSISPFMRKGMAGDWKTTFTVAQNERFDADY  
 AEKMAGCSLSFRSEL

TRTRPLE - GFP Tag - V

**Restriction Sites:**

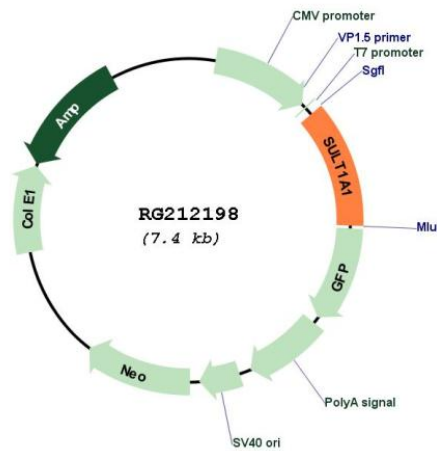
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_177534

**ORF Size:** 885 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_177534.2</a>
<b>RefSeq Size:</b>	1598 bp
<b>RefSeq ORF:</b>	888 bp
<b>Locus ID:</b>	6817
<b>UniProt ID:</b>	<a href="#">P50225</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Pathways:</b>	Sulfur metabolism
<b>Gene Summary:</b>	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]