

Product datasheet for **RG212313**

SULT1A1 (NM_177536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1A1 (NM_177536) 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:	>RG212313 representing NM_177536 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCCAAGTTGCTGTGCGACCAGGTGGTCGGTGCGCCCATCGCGGTCTCGGCCTTCTACGCCGTA
TGAGCATTCTCCAGGAAAGGATGACATATTTTTGGACCTGAAACAGAAATCTGGAACACCTATATGGT
GGTCTATGTTGCCCGCAACGCAAAGGATGTGGCAGTTTCTACTACCACTTCTACCACATGGCCAAGGTG
CACCTGAGCCTGGGACCTGGGACAGCTTCTGGAGAAGTTCATGGTCGGAGAAGTGTCTACGGATCCT
GGTACCAGCACGTGCAGGAGTGGTGGGAGCTGAGCCGCACCCACCCTGTTCTCTACCTTCTATGAAGA
CATGAAGGAGAACCCGAAAAGGGAGATTCAAAGATCCTGGAGTTTGTGGGGCGCTCCCTGCCAGAGGAG
ACCGTGGACTTCGTGGTTCAAGCAGCATCTCCCTTTCATGAGGAAAGGCATGGCTGGGACTGGAA
GACCACCTTACCGTGGCGCAGAATGAGCGCTTCGATGCGGACTATGCGGAGAAGATGGCAGGCTGCAGC
CTCAGCTTCCGCTCTGAGCTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212313 representing NM_177536
Red=Cloning site Green=Tags(s)

MLAKLLCDQVVGAPIAVSAFYAGMSILQGKDDIFLDLKQKFWNTYMVVVYVARNAKDVAVSYYHFYHMAKV
 HPEPGTWDSFLEKFMVGEVSYGSWYQHVQEWELSRTHPVLVLFYEDMKENPKREIQKILEFVGRSLPEE
 TVDFVVQHTSFKEMKKNPMTNYTTVPQEFMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYA EK MAGCS
 L SFRSEL

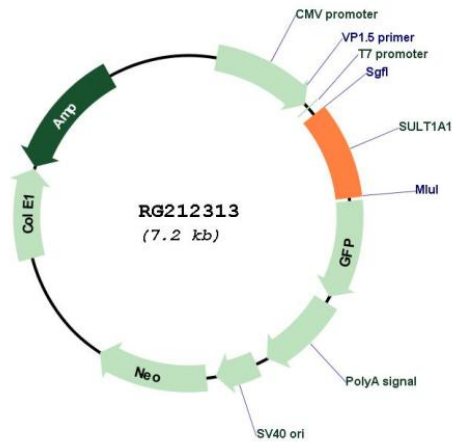
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177536

ORF Size: 651 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_177536.3 , NP_803880.1
RefSeq Size:	1237 bp
RefSeq ORF:	585 bp
Locus ID:	6817
UniProt ID:	P50225
Cytogenetics:	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 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]