

## Product datasheet for **RG202775**

### SULT1C2 (NM\_001056) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1C2 (NM_001056) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SULT1C2
Synonyms:	humSULTC2; ST1C1; ST1C2; SULT1C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202775 representing NM_001056 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGACCTCAGACCTGGGGAAACAGATAAACTGAAAGAGGTGGAGGGGACCTCCTGCAGCCTG  
CAACTGTGGACAACCTGGAGCCAGATCCAGAGCTTCGAGGCCAAACCAGATGATCTCCTCATCTGCACCTA  
CCCTAAAGCAGGGACAACGTGGATTTCAGGAAATGTGGATATGATTGAACAGAATGGGGACGTGGAGAAG  
TGCCAGCGAGCCATCATCAACACCGCCATCCTTTCATTGAGTGGGCTCGGCCACCCCAACCTTCTGGTG  
TGGAAAAAGCCAAAGCAATGCCCTCTCCACGGATACTAAAGACTCACCTTCCACTCAGTGTGCCACC  
GTCTTCTGGGAAAACAACCTGCAAGTTCCTTTATGTAGCTCGAAATGCCAAAGACTGTATGGTTTCTAC  
TACCATTTCCAAAGGATGAACCATGCTTCTGACCCTGGTACCTGGGAAGAGTATTTGAAACCTTCA  
TCAATGGAAAAGTGGTTTGGGGTTCCTGGTTTGACCACGTGAAAGGATGGTGGGAGATGAAAGACAGACA  
CCAGATTTCTTCTTCTATGAGGACATAAAGAGGGACCCAAAGCATGAAATTCGGAAGGTGATGCAG  
TTCATGGGAAAGAAGGTGGATGAAACAGTGCTAGATAAAATGTCCAGGAGACGTCATTTGAGAAAATGA  
AAGAAAATCCCATGACAAATCGTTCTACAGTTTCCAAATCTATCTGGACCAGTCAATTTCTCCTTCAT  
GAGAAAAGGAAGTGTGGGGATTGGAAAAACCACTTCACTGTTGCCGAGAATGAGAGGTTTGATGAAATC  
TATAGAAGAAAGATGGAAGGAACCTCCATAAACTTCTGCATGGAATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202775 representing NM\_001056  
Red=Cloning site Green=Tags(s)

MALTSDLGKQIKLKEVEGTLLQPATVDNWSQIQSFEAKPDDLICTYPKAGTTWIEIVDMIEQNGDVEK  
 CQRAI IQHRHPF IEWARPPQPSGVEKAKAMPSPRILKTHLSTQLLPPSFWENNCKFLYVARNAKDCMVS  
 YHFQRMNHMLPDPGTWEEYFETF INGKVVWGSWFDHVKGWEMKDRHQILFLFYEDIKRDPKHEIRKVMQ  
 FMGKKVDETVLTKIVQETSF EKMKENPMTNRSTVSKSILDQSISSFMRKGTVDGWNHFTVAQNERFDEI  
 YRRKMEGTSINFCMEL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001056

**ORF Size:** 888 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\\_001056.4](#)

**RefSeq Size:** 2799 bp

**RefSeq ORF:** 891 bp

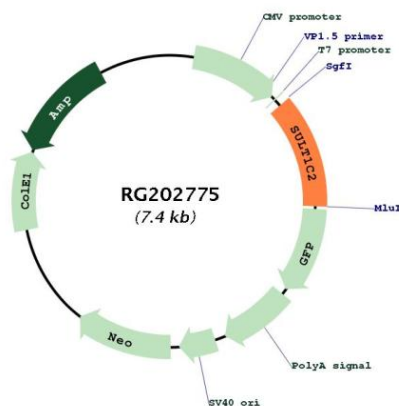
**Locus ID:** 6819

**UniProt ID:** [O00338](#)

**Cytogenetics:** 2q12.3

**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 protein that belongs to the SULT1 subfamily, responsible for transferring a sulfo moiety from PAPS to phenol-containing compounds. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG202775