

Product datasheet for **RG221503**

SULT1C2 (NM_176825) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT1C2 (NM_176825) 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:	>RG221503 representing NM_176825 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTGACCTCAGACCTGGGGAAACAGATAAACTGAAAGAGGTGGAGGGGACCTCCTGCAGCCTG
CAACTGTGGACAACCTGGAGCCAGATCCAGAGCTTCGAGGCCAAACCAGATGATCTCCTCATCTGCACCTA
CCCTAAAGCAGGGACAACGTGGATTTCAGGAAATGTGGATATGATTGAACAGAATGGGGACGTGGAGAAG
TGCCAGCGAGCCATCATCAACACCGCCATCCTTTCATTGAGTGGGCTCGGCCACCCCAACCTTCTGAGA
CAGGATTTACCATGTTGCCAGGCTGGTCTCAAACCTCCTGAGCTCAAGCAATCCACCTGCCTCAACCTC
CCAAAGTGCCAAGATTACAGACCTGCTGCCACCGTCTTTCCTGGGAAAACAACCTGCAAGTTCTTTATGTA
GCTCGAAATGCCAAAGACTGTATGGTTTCTACTACCATTTCCAAAGGATGAACCATGCTTCCTGACC
CTGGTACCTGGGAAGAGTATTTGAAACCTTCATCAATGGAAAAGTGGTTTGGGGTTCCTGGTTTGACCA
CGTGAAAGGATGGTGGGAGATGAAAGACAGACACCAGATTCTCTTCTCTCTATGAGGACATAAAGAGG
GACCCAAAGCATGAAATTCGGAAGGTGATGCAGTTCATGGGAAAGAAGGTGGATGAAACAGTGCTAGATA
AAATTGTCAGGAGACGTCATTTGAGAAAATGAAAGAAAATCCCATGACAAATCGTTCTACAGTTTCCAA
ATCTATCTTGACCAGTCAATTTCTCTTTCATGAGAAAAGGAACTGTGGGGATTGGAAAAACCACTTC
ACTGTTGCCAGAATGAGAGGTTTGTGAAATCTATAGAAGAAAGATGGAAGGAACCTCCATAAACTTCT
GCATGGAACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221503 representing NM_176825
 Red=Cloning site Green=Tags(s)

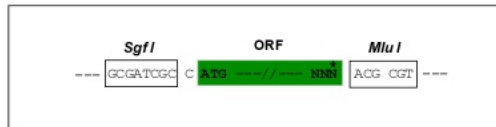
MALTSDLGKQIKLKEVEGTL LQPATVDNWSQIQSFEAKPDDL ICTYPKAGTTW IQEIVDMIEQNGDVEK
 CQRAI IQHRHPF IEWARPPQ PSETGFHHVAQAGL KLLSSNPPASTSQSAKITDLLPPSFWENNCKFLYV
 ARNAKDCMVSYYHFQRMNHMLPDPGTWEEYFETF INGKVVWGSWFDHVKGWEMKDRHQILFLFYEDIKR
 DPKHEIRKVMQFMGKKVDETVL DKIVQETSFEKMKENPMTNRSTVSKSILDQSISSFMKGTVDGWNHF
 TVAQNERFDEIYRRKMEGTSINFCMEL

TRTRPLE - GFP Tag - V

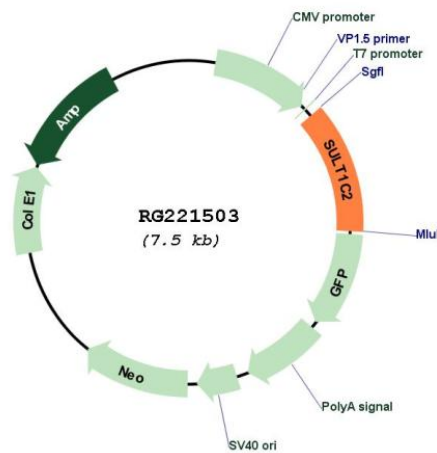
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_176825

ORF Size: 921 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_176825.3
RefSeq Size:	2832 bp
RefSeq ORF:	924 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]