

Product datasheet for **RG206535**

Estrogen Sulfotransferase (SULT1E1) (NM_005420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen Sulfotransferase (SULT1E1) (NM_005420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Estrogen Sulfotransferase
Synonyms:	EST; EST-1; ST1E1; STE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206535 representing NM_005420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATTCTGAACTTGACTATTATGAAAAGTTTGAAGAAGTCCATGGGATTCTAATGTATAAAGATTTTG
TCAAATATTGGGATAATGTGGAAGCGTTCCAGGCAAGACCAGATGATCTTGTCATTGCCACCTACCTAA
ATCTGGTACAACCTGGGTAGTGAATTTGTGTATGATCTATAAAGAGGGTGTGTGGAAAAGTGCAA
GAAGATGTAATTTTAAATCGAATACCTTTCCTGGAATGCAGAAAAGAAAACCTCATGAATGGAGTAAAC
AATTAGATGAGATGAATTCTCCTAGAATTGTGAAGACTCATTGGCCACCTGAACTTCTTCTGCCTCATT
TTGGGAAAAGGATTGTAAGATAATCTATCTTTGCCGGAATGCAAAGGATGTGGCTGTTTCTTTTATTAT
TTCTTTCTAATGGTGGCTGGTCATCCAATCCTGGATCCCTCCAGAGTTTGTGGAGAAATTCATGCAAG
GACAGGTTCTTATGGTTCCTGGTATAAACATGAAAACTTGGTGGGAAAAGGGAAAGAGTCCACGTGT
ACTATTTCTTTTCTACGAAGACCTGAAAGAGGATATCAGAAAAGAGGTGATAAAATTGATACATTTCTG
GAAAGGAAGCCATCAGAGGAGCTTGTGGACAGGATTATACATCATACTTCGTTCCAAGAGATGAAGAACA
ATCCATCCACAAATTACACAACACTGCCAGACGAAATATGAACCAGAAATGTCCGCCCTCATGAGAAA
GGGAATTACAGGAGACTGGAAAAATCACTTTACAGTAGCCCTGAATGAAAAATTTGATAAACATTATGAG
CAGCAAATGAAGGAATCTACACTGAAGTTTCGAACTGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206535 representing NM_005420
Red=Cloning site Green=Tags(s)

MNSELDYYEKFEVHGHILMYKDFVKYWDNVEAFQARPDDLVIATYPKSGTTWVSEIVYMIYKEGDVEKCK
 EDVIFNRIPFLECRKENLMNGVKQLDEMNSPRIKTHLPELLPASFWEKDCKIIYLCRNAKDVAVSFYY
 FFLMVAGHPNPGSLPEFVEKFMQGVVYGSWYKHVKSWWEKGSPPVLFVLFYEDLKEDIRKEVIKLIHFL
 ERKPSEELVDRIIHHTSFQEMKNNPSTNYTTLPDEIMNQKLSPFMRKGITGDWKNHFTVALNEKFDKHYE
 QQMKESTLKFRTETI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005420

ORF Size: 882 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_005420.2](#), [NP_005411.1](#)

RefSeq Size: 1805 bp

RefSeq ORF: 885 bp

Locus ID: 6783

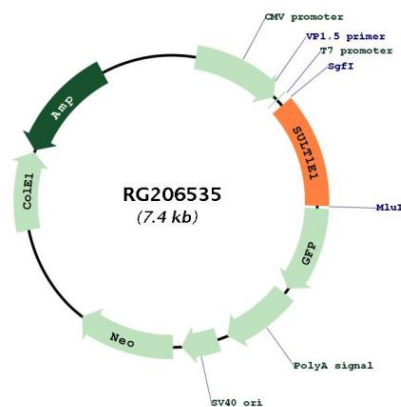
UniProt ID: [P49888](#)

Cytogenetics: 4q13.3

Protein Pathways: Androgen and estrogen metabolism, 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 a protein that transfers a sulfo moiety to and from estrone, which may control levels of estrogen receptors. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206535