

Product datasheet for **RG204737**

SULT2A1 (NM_003167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT2A1 (NM_003167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SULT2A1
Synonyms:	DHEA-ST; DHEA-ST8; DHEAS; HST; hSTa; ST2; ST2A1; ST2A3; STD; SULT2A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204737 representing NM_003167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGGACGATTTCTTATGGTTTGAAGGCATAGCTTCCCTACTATGGGTTTCAGATCCGAAACCTTAA
GAAAAGTACGTGATGAGTTCGTGATAAGGGATGAAGATGTAATAATTTGACTTACCCCAATCAGGAAC
AACTGGTTGGCTGAGATTCTCGCTGATGCACTCCAAGGGGATGCCAAGTGGATCCAATCTGTGCC
ATCTGGGAGCGATCACCTGGGTAGAGAGTGAGATTGGGTATACAGCACTCAGTAAACGGAGAGTCCAC
GTTTATTCTCCTCCACCTCCCATCCAGTTATCCCAAGTCTTCTTCAGTTCCAAGCCAAGGTGAT
TTATCTCATGAGAAATCCAGAGATGTTTTGGTGTCTGGTTATTTTTCTGGAAAAACATGAAGTTTATT
AAGAAACCAAAGTCATGGGAAGAATATTTGAATGGTTTTGTCAAGGAACTGTGCTATATGGGTCATGGT
TTGACCACATTCATGGCTGGATGCCATGAGAGAGGAGAAAACTTCTGTTACTGAGTTATGAGGAGCT
GAAACAGGACACAGGAAGAACCATAGAGAAGATCTGTCAATTCCTGGAAAGACGTTAGAACCCGAAGAA
CTGAACCTAATCTCAAGAACAGCTCCTTTCAGAGCATGAAAGAAAAACAAGATGTCCAATTATCCCTCC
TGAGTGTGATTATGTAGTGGACAAAGCACAACCTCTGAGAAAAGGTGTATCTGGGGACTGGAAAAATCA
CTTCACAGTGGCCCAAGCTGAAGACTTTGATAAATTGTCCAAGAGAAGATGGCAGATCTTCTCGAGAG
CTGTTCCCATGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204737 representing NM_003167
Red=Cloning site Green=Tags(s)

MSDDFLWFEGIAFPTMGFRSETLRKVRDEFVIRDEVDVIILTYPKSGTNWLAEILCLMHSKGDQAKWIQSVPIWERSPWVESEIGYTALSETESPRLFSSHLPIQLFPKSFSSKAKVIYLMRNPDRVLSVGYFFWKNMKFKKPKSWEEYFEWFCQGTVLYGSWFDHIHGWMMPMREEKNFLLLSEELKQDTGRTIEKICQFLGKLTLEPEELNLILKNSSFQSMKENKMSNYSLLSVDYVVDKAQLLRKGVSGDWKNHFTVAQAEDFDKLFQEKMADLPRELFPWE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003167

ORF Size: 855 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_003167.4](#)

RefSeq Size: 1779 bp

RefSeq ORF: 858 bp

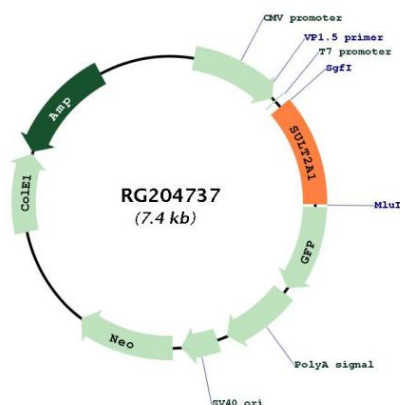
Locus ID: 6822

UniProt ID: [Q06520](#)

Cytogenetics: 19q13.33

Gene Summary: This gene encodes a member of the sulfotransferase family. Sulfotransferases aid in the metabolism of drugs and endogenous compounds by converting these substances into more hydrophilic water-soluble sulfate conjugates that can be easily excreted. This protein catalyzes the sulfation of steroids and bile acids in the liver and adrenal glands, and may have a role in the inherited adrenal androgen excess in women with polycystic ovary syndrome. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG204737