

Product datasheet for RC206314

SULT4A1 (NM_014351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SULT4A1 (NM_014351) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SULT4A1
Synonyms:	BR-STL-1; BRSTL1; DJ388M5.3; hBR-STL-1; NST; SULTX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206314 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGAGCGAGGCCGAGACCCCCAGCACCCCGGGGAGTTCGAGAGCAAGTACTTCGAGTTCATG
GCGTGCGGCTGCCGCCCTTCTGCCCGGGAAGATGGAGGAGATCGCCAACTTCCCGTGCGGCCAGCGA
CGTGTGGATCGTCACCTACCCCCCGGCACCAGCTTGTGCAGGAGGTGGTCTACTTGGTGAGCCAGGGC
GCTGACCCGATGAGATCGGCTTGATGAACATCGACGAGCAGCTCCCGTCTGGAGTACCCACAGCCGG
GCCTGGACATCATCAAGGAAGTACCTCTCCCGCCTCATCAAGAGCCACCTGCCCTACCGCTTTCTGCC
CTCTGACCTCCACAATGGAGACTCCAAGGTCATCTATATGGCTCGCAACCCCAAGGATCTGGTGGTGTCT
TATTATCAGTTCACCGCTCTCTGCGGACCATGAGCTACCGAGGCACCTTCAAGAATTCTGCCGGAGGT
TTATGAATGATAAGCTGGGCTACGGCTCCTGGTTTGGACAGTGCAGGAGTTCTGGGAGCACCGCATGGA
CTCGAAGTGTCTTTTCTCAAGTATGAAGACATGCATCGGGACCTGGTGACGATGGTGGAGCAGCTGGCC
AGATTCTGGGGTGTCTGTGACAAGGCCAGCTGGAAGCCCTGACGGAGCACTGCCACCAGCTGGTGG
ACCAAGTGTGCAACGCTGAGGCCCTGCCGTGGCCGGGAAGAGTTGGGCTGTGGAAGGACATCTTAC
CGTCTCCATGAATGAGAAGTTTGACTTGGTGTATAAACAGAAGATGGGAAAGTGTGACCTCACGTTTGAC
TTTTATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC206314 protein sequence
Red=Cloning site Green=Tags(s)

MAESEAETPSTPGEFESKYFEFHGVRLPPFCRGKMEEIANFPVVRPSDVWIVTYPGTSLLQEVVYLVSQG
 ADPDEIGLMNIDEQLPVLEYQPGLDIIKELTSPRLIKSHLPYRFLPSDLHNGDSKVIYMARNPKDLVVS
 YYQFHRSLRTMSYRGTFQEFCCRFRMNDKLGYGSWFEHVQEFWEHRMDSNVLFKLYEDMHRDLVTMVEQLA
 RFLGVSCDKAQLLEALTEHCHQLVDQCCNAEALPVGRGRVGLWKDIFTVSMNEKFDLVYKQKMGKCDLTFD
 FYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6073_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014351

ORF Size: 849 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_014351.4](#)

RefSeq Size: 2465 bp

RefSeq ORF: 855 bp

Locus ID: 25830

UniProt ID: [Q9BR01](#)

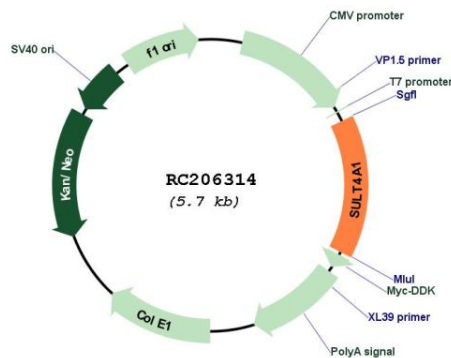
Cytogenetics: 22q13.31

Domains: Sulfotransfer

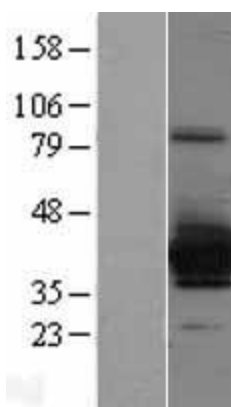
MW: 33 kDa

Gene Summary: This gene encodes a member of the sulfotransferase family. The encoded protein is a brain-specific sulfotransferase believed to be involved in the metabolism of neurotransmitters. Polymorphisms in this gene may be associated with susceptibility to schizophrenia. [provided by RefSeq, Jul 2008]

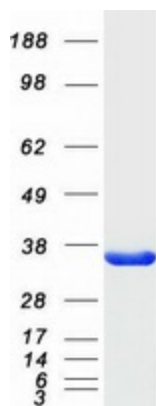
Product images:



Circular map for RC206314



Western blot validation of overexpression lysate (Cat# [LY402319]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206314 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SULT4A1 protein (Cat# [TP306314]). The protein was produced from HEK293T cells transfected with SULT4A1 cDNA clone (Cat# RC206314) using MegaTran 2.0 (Cat# [TT210002]).