

Product datasheet for **MR223101**

Sts (NM_009293) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sts (NM_009293) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sts
Synonyms:	ArsC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223101 representing NM_009293, codon optimized.
 Due to the complexity of NM_009293, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCGGCCAGACCCTTGCTGCTGGCGGTGATGGCCGCTACTTTGGCCGATATAATCCTGGCTGCCG
 ATCCCGCGCCCGCGGACCCGCTCCGAGGCCTCCCAACTTCCTTTTGATCATGGCAGATGATCTTGAAT
 CGGAGATCTTGGCTGCTACGAAACAAAACGTTGCGGACTCCACACCTGGACCGCCTGGCTAGGGAGGGA
 GTGAAACTCACTAACACCTGGCTGCTGCCCTTTGACTCCTCCCGGGCCGCTTCTGACCGGCC
 GCTACCCACCACGGTCAGGCATGGCTGCCACGGCCGGTTCGGTGTATACTTGTTTACCGCTCTAGCGG
 GGGGCTCCCTCCATCCGAAGTACCATGGCAGCCCTGCTGAAGGGACGGGGCTATGCTACCGCTCTTATC
 GGCAATGGCACCTGGGGCTGTCTGTAGGGGCGCCACCGACTTTTGTCACCATCCGCTGAGGCATGGCT
 TTGATAGGTTCTCGGAGTGCCAACTACCAACTTGCAGACTGCAGACCTGGCGCCGGGACCGTATTTGG
 CCCTGCTCTCCGGGTGTTTGGCGCAGGCCACTGGCTGCCCTCGGGGCATCACTTGCAGCTATGGCCGCT
 GCCAGATGGGCAGGGCTTGTAGAGTGCAGGGTGGGCTTTGGCTGGTACTGCCCGCAATGCTGGCCG
 TCGGGGGCCCTCGGTCGCTAGTTGCTTGGGGTTTAGGCCAGAACTGCTTCTCATGGATGATCTGCC
 TGTTGCACAAAGGCCAACCGACTATGGCGCCTCACAGACGGCTGGCTGACGAGGCCCTGTTCTTCTT
 CGGCGCAATCGCGCAAGACCGTTCTCCTTTTCTGAGCTTCTGCACGTTACACAGCACACTTCGCCG
 ACCCTGGGTTTCGACGGGCTCTCTGCACGGGCTACGGGGATTCTGTAGAAGAGATGGACTGGGGTGT
 GGGTAGGGTCTCGTGCCTGGATGAGCTGGGACTGGCTAGAGAAACCTGTTTACTTTACTTCAGAC
 CACGGGGCACACGTGGAGGAGCTGGGGCCAGAGGAGAGCGAATGGGAGGCTCCAACGGTGTCTTCCGAG
 GCGGCAAGGAAATAACTGGGAAGGCGGCTCCGCGTGCCTTGCCTGGTCAAGTGGCCTCGCAACTCAG
 TCCTGGACGGTCTGTCGAACCCACCAGCTTGATGGATGTCTCCCCACAGTAGCCAGACTCGCCGGA
 GCCGAAGTCCAGGCGACAGGGTATCGATGGTTCGCGACCTGATGCCTTTGCTTCGCGGCATGCGCAGA
 GGAGCGAGCATGAATTCCTTTTCACTACTGTAACGCCTACTTGCAGGCAGTCCGCTGGCACAATGGAAG
 CGCTGTGTGGAAGGCCTTTTACTTCACCCCTAATTTCCGCCCCGCTGGCGCAACGGGTGTTTCAGCACT
 CACGTCTGCCTTTGCGCCGGTCTGCCACGTTACTGCACACGACCCCTCCCTGCTGTTTCGACCTGACTC
 GGGATCCTGGAGAAAGGCGACCTTTACGCCAGAAGCCGAGCCGCGGCACCGAGAGGTCCTCGATGCAAT
 CGACGCAGCAGCCAGAGCTCACCGAGCACGCTGCGGCCAGCCCCGACCGAGCTGGCTCCTCGCCACCTT
 ATGTGAAACCATGGCTGCAGCTGTGGGGTGGAGGGGTGCTGGGGGTGGCGCCGGTGCACAGGACGATT
 CCGGGCACGCCACGGCGACGGCAGCCATGCCATGACGACCTGGTCACGCCAAGACCGGGGTGACGA
 TGATGCACATTATGGTGGCCACGCGACCACTCGCACACAGGCCACCCACGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223101 representing NM_009293
 Red=Cloning site Green=Tags(s)

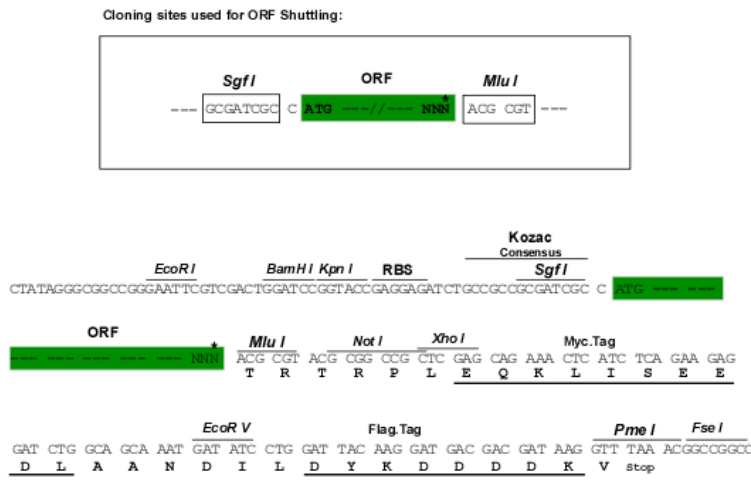
MPPRRPLLLAVMAATLADIILAADPAPAGPAPRPPNFFLLIMADDLGGDLGCGYGNKTLRTPHLDRDLAREG
 VKLTQHLAAAPLCTPSRAAFLTGRYPFRSGMAAHGRVGVYLF TASSGGLPPSEVTMARLLKGRGYATALI
 GKWHGLGLSCRGATDFCHHPLRHGFDRFLGVPTTNLRDCRPGAGTVFGPALRVFAAGPLAALGASLAAMAA
 ARWAGLARVPGWALAGTAAAMLAVGGPRASCLGFRPANCFLMDDLAVAQRPTDYGGLTRRLADEAALFL
 RRNRARPFLFLSFLHVHTAHFADPGFAGRSLHGAYGDSVEEMDWGVGRVLAALDELGLARETLVYFTSD
 HGHAHVEELGPRGERMGGNGVFRGGKGNWEGVVRVPCLVWRPRELSPGRVVAEPTSLMDVFPPTVARLAG
 AELPGDRVIDGRDLMPLLRGDAQRSEHEFLFHYCNAYLQAVRWHNGSAVWKAFYF TPNFAPAGANGCFST
 HVCLCAGPAHVT AHDPPLLFDL TRDPGERRPL TPEAEPRHREVLDAIDAAAARHRARLPAPDQLAPRHL
 MWKPLQLWGGGGAGGGAGA QDDSGHAHGDGSHAHDDPGHAQDRGDDDAHYGGHATTRTQATPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_009293

ORF Size: 1872 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_009293.1](#), [NP_033319.1](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1875 bp

Locus ID: 20905

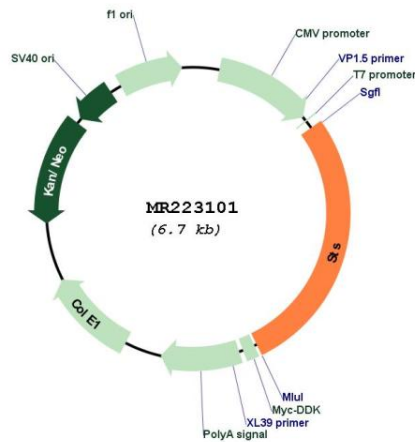
UniProt ID: [P50427](#)

Cytogenetics: XY 75.0 cM

MW: 66.6 kDa

Gene Summary: Catalyzes the conversion of sulfated steroid precursors, such as dehydroepiandrosterone sulfate (DHEA-S) and estrone sulfate to the free steroid.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223101