

## Product datasheet for **SC119923**

### Steroid sulfatase (STS) (NM\_000351) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Steroid sulfatase (STS) (NM_000351) Human Untagged Clone
Tag:	Tag Free
Symbol:	Steroid sulfatase
Synonyms:	ARSC; ARSC1; ASC; ES; SSDD; XLI
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000351 edited  
 ATGCCTTTAAGGAAGATGAAGATCCCTTTCCTCCTACTGTTCTTTCTGTGGGAAGCCGAG  
 AGCCACGCAGCATCAAGGCCGAACATCATCCTGGTGATGGCTGACGACCTCGGCATTGGA  
 GATCCTGGGTGCTATGGGAACAAAATATCAGGACTCCCAATATCGACCGGTTGGCCAGT  
 GGGGGAGTGAACTCACTCAGCACCTGGCAGCATACCCGCTGTGCACCAAGCAGGGCA  
 GCCTTCATGACTGGCCGGTACCCTGTCCGATCAGGAATGGCATCTTGGTCCCGCATGGA  
 GTTTTCCTTTCACAGCCTTTCGGGAGGACTTCCACCAGATGAGATTACCTTTGCTAAG  
 CTCTGAAGGATCAAGGTTATTCAACAGCACTGATAGGGAAATGGCACCTTGGGATGAGC  
 TGTACAGCAAGACTGACTTCTGTCAACCCTTTACATCACGGCTTCAATTATTCTAT  
 GGGATCTCTTTGACCAATCTGAGAGACTGCAAGCCCGGAGAGGGCAGTGTCTTACCACG  
 GGCTTCAAGAGGCTGGTCTTCTCCCTGCAGATCGTCGGGGTACCCTCCTTACCCTT  
 GCTGCACTCAATTGTCTGGGGCTACTCCACGTGCCTTAGGGCTTTTTTTCAGCCTTCTC  
 TTCTAGCAGCCCTAATCCTGACCCTTTTCTGGGCTTCTTACTTCCGGCCCTG  
 AACTGCTTCATGATGAGGAACACGAGATCATTACGACGCCATGTCCTATGACAATCTC  
 ACCCAGAGGCTAACGGTGGAGGGCCAGTTCATACAGCGGAACACTGAGACTCCGTTT  
 CTGCTTGTCTTGTCTACCTCCACGTGCACACAGCCCTGTTCTCCAGCAAAGACTTTGCT  
 GGCAAAAGTCAACACGGAGTCTACGGGGATGCTGTTGAGGAAATGGACTGGAGTGTGGGG  
 CAGATCTTGAACCTTCTGGATGAGCTGAGATTGGCTAATGATACCTCATCTACTTACA  
 TCGGACCAGGGAGCACATGTAGAAGAAGTGTCTTCAAAGGAGAAATTCATGGCGAAAGT  
 AATGGGATCTATAAAGGAGGAAAAGCAAACAACCTGGGAAGGAGGTATCCGGGTTCCAGGC  
 ATCCTTCGTTGGCCAGGGTGATACAGGCTGGCCAGAAGATTGATGAGCCCACTAGCAAC  
 ATGGACATATTTCTACAGTAGCCAAGCTGGCTGGAGCTCCCTTGCTGAGGACAGGATC  
 ATTGATGGACGTGATCTGATGCCCTGCTTGAAGGAAAAAGCCAACGCTCCGATCATGAG  
 TTTCTCTTCCATTACTGCAACGCCTACTTAAATGCTGTGCGCTGGCACCTCAGAACAGC  
 ACATCCATCTGGAAGGCCTTTTTCTTACCCCCAACTTCAACCCCGTGGGTTCCAACGGA  
 TGCTTTGCCACACACGTGTGCTTCTGTTTCGGGAGTTATGTACCCATCACGACCCACCT  
 TTAATCTTTGATATTTCAAAGATCCCAGAGAGAGAAACCACTAACTCCAGCATCCGAG  
 CCCCAGTTTATGAAATCCTCAAAGTCATGCAGGAAGCTGCGGACAGACACCCAGACC  
 CTGCCAGAGGTGCCCGATCAGTTTTTATGGAACAACCTTTCTTTGGAAGCCCTGGCTTCA  
 CTGTGCTGCTTCCACCGCCTGTCTTGCCAGTGTGATAGAGAAAAACAGGATAAGAGA  
 CTGAGCCGCTAG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000351 unedited  
 TTGCGGATTAGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGGCTGTAGTGA  
 GGTTGCAGTGATTGAGTAGGATTGGCTGCTTCAAAGCAGAGGTTTCTCATGGGAATATG  
 CTTATTAACCTCCCACTGGTGCAGAAACCATGAACAGAGGATGAACAAGTGAAGTTGCAA  
 TCTCCTCCATCACAGCTCAGTTCCCAACAACAGGATCACAAGCTGGAGATGCCTTTAAG  
 GAAGATGAAGATCCCTTTCCTCCTACTGTTCTTTCTGTGGGAAGCCGAGAGCCACGCAGC  
 ATCAAGGCCGAACATCATCCTGGTGATGGCTGACGACCTCGGCATTGGAGATCCTGGGTG  
 CTATGGGAACAAAATATCAGGACTCCCAATATCGACCGGTTGGCCAGTGGGGAGTGAA  
 ACTCACTCAGCACCTGGCAGCATACCCGCTGTGCACCAAGCAGGGCAGCCTTCATGAC  
 TGGCCGGTACCCTGTCCGATCAGGAATGGCATCTTGGTCCCGACTGGAGTTTTCTCTT  
 CACAGCCTCTTCGGGAGGACTTCCACCAGATGAGATTACCTTTGCTAAGCTTCTGAAAGA  
 TCAAGGCTATTCAACAGCACTTGATAGGGAAATGGCACCTTGGGATGAGCTGTCACAGCA  
 AGACTGACTTCTGTCAACCCTTTACATTACGGCTTTAATTAATTTCTATGGGATCTCT  
 TTGACCAATCCTGAAAGACTGCAAGCCCGAAAAGGCAGTGTCTTACCACGGGCTTCAA  
 AAGGCTGGGCTTTCTCCCTGCAATCGTGGGGAAACCTTCTTTACCTTGTGCACC  
 TCATTGCTGGGGCTTACACGGGCCTTAGGCGCGTTTTTTTACCCTTCTTTTTT  
 TCAAAAGCCGTAACCTCGACCCTTTCTTGGGCTTCTCTTTACTTCCGN

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_000351 unedited GGCCGCAATTTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTTTTATGTGATTGCCTTTT TATTATGCTGGTTATTGCATCACTGCAGATTATAGAGTAAATGGTAACTTATACTGTTGA CATAGGTATTTGCTGAGGGGTGAGTTAAGGTACCTCCTGCACCTTTCTGTTTTAAGATTG CCTTCTGCACCTTTTTGTATCTGCTTGCCTGGTGTGCCTTGTGAATGCCCTCTATTC ATTCTATTTCCATGAGTCCAAGACTCTGGCCACAGAAGGCATAAACCTACCATCTTCTG TCTGTATACTACAGACCTTATCCCCTCACCCCTCCAGTTGAGTAGCTGTTGAGCTCTGG CCCAAGCCTTCAGGTGATAAAATGGAGAATCAGTCCAAATCCAAGGTGTAGATGGAGTTA TGTTTCCCAGTGCCACTCTCAGCGTGTTTGTAGTGAAGATGGTGAGCTTTGCCACATG CGTCTGTCTGGTCCCAGGCGCTGCTAGCGGCTCAGTCTTATCCTGTTTTTCTCTATC ACACTGGCAAGACAGGCCGTGGAAGGACAGCACAGCTGAAGCCAGNGCTTCCAAAGAAA GTTGTTCCATGAAAAGTATCGGGCACCTCTGCAGGGTCTGGGTGTGTCTGTCCGCAGC TTCCTGCATGACTTTGAGGATTTATAAAACCGNGCTCGGATGCTGAGTTAGGGGTTTT TTTCTTGGGACCTTTGGATATCAAAAAGTAAGGTGGTCTGATGGGTGACTAACTCCCAA CAGAACCACGTGGGGGCAACCTTCCGTGAACCACCGGTTGAATCGGGGTGAAAAAAA GCCTTCCAATGATGGCTGTTCTGAGTGGCCCCCCTTTTATAGCGTGCATTATGGAA AAAATCCTGATCGACGTTGCTTTTCTTAAACCGGCCAAAACACTCCTAATAACTGTCCAG GCAGGACCCACCCCTGTTTTGTGCAATTCCATTGTTATGGCCCTATTTCCGCCCTTCC CTGCCAAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000351
<b>Insert Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000351.3</a></u> , <u><a href="#">NP_000342.2</a></u>
<b>RefSeq Size:</b>	6366 bp
<b>RefSeq ORF:</b>	1752 bp
<b>Locus ID:</b>	412
<b>UniProt ID:</b>	<u><a href="#">P08842</a></u>
<b>Cytogenetics:</b>	Xp22.31

<b>Domains:</b>	Sulfatase
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Androgen and estrogen metabolism
<b>Gene Summary:</b>	<p>This gene encodes a multi-pass membrane protein that is localized to the endoplasmic reticulum. It belongs to the sulfatase family and hydrolyzes several 3-beta-hydroxysteroid sulfates, which serve as metabolic precursors for estrogens, androgens, and cholesterol. Mutations in this gene are associated with X-linked ichthyosis (XLI). Alternatively spliced transcript variants resulting from the use of different promoters have been described for this gene (PMID:17601726). [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform 1. It is expressed almost exclusively in the placenta. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>