

Product datasheet for **SC119479**

SRD5A1 (NM_001047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRD5A1 (NM_001047) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRD5A1
Synonyms:	S5AR 1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001047, the custom clone sequence may differ by one or more nucleotides

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ATGGCAACGGCGACGGGGGTGGCGGAGGAGCGCCTGCTGGCCGCGCTCGCCTACCTGCAGTGCGCCGTGG
GCTGCGCGGTCTTCGCGCGCAATCGTCAGACGAACTCAGTGTACGGCCGCCACGCGCTGCCAGCCACAG
GCTCCGAGTGCCGGCGGGCCGCTGGGTGGTGCAGGAGCTGCCCTCGCTGGCCCTGCCGCTCTACCAG
TAGCCAGCGAGTCCGCCCGCGTCTCCGAGCGGCCCAACTGCATCCTCTGGCCATGTTCTCGTCC
ACTACGGGCATCGGTGCTTAATTTACCCATTTCTGATGCGAGGAGGAAAGCCTATGCCACTGTTGGCGTG
TACAATGGCGATTATGTTCTGTACCTGTAAACGGCTATTTGCAAAGCAGATACTTGAGCCATTGTGCAGTG
TATGCTGATGACTGGGTAACAGATCCCCGTTTTCTAATAGGTTTTGGCTTGTGGTTAACGGGCATGTTGA
TAAACATCCATTAGATCATATCCTAAGGAATCTCAGAAAACCAGGAGATACTGGATACAAAATACCAAG
GGGAGGCTTATTTGAATACGTAACGTAACGCAACTATTTGGAGAAATCATGGAGTGGTGTGGCTATGCC
CTGGCCAGCTGGTCTGTCCAAGGCGGGCTTTTGCTTTCTTACGTTTTGTTTTTATCTGGTAGAGCAA
AAGAGCATCATGAGTGGTACCTCCGAAATTTGAAGAGTATCAAAGTTCAGAAAATTATAATTCCATT
TTTGTTTTAA
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_001047 unedited
 GGGCACCATTTGTATACGACTACTATAGGCGGCCCGGATTCGGCACGAGGCTTGAGAA
 CCCTTTCTGCAGATTCGCCGAGTGCGGGACTCCGGTAGCCGCCCTCCGGTAGCCGCC
 CTCTGCCCGCGCCGACGACCTAATGTTGCCCGCCGCGCCTCTGGGGCATGGAGCAC
 GCTGCCAGCCCTGGCGATGGCAACGGCCACGGGGCTGGCGGCAGCAGCGCTGCTGGC
 CGCGCTCGCCTACCTGCAGTGCGCCGCGGGCTGCGCGGTCTTCGCGCGGAATCGTCATA
 GAACTCAGAGTACGGACGACACGCGCTGTCCAGACACAGGCTCCGAGCGCGCGCGGTC
 CGCCTGGGTGGTGCAGGAGTGCCTCCCTGGCCCTGCCGCTCTACCAATACGCCAGCGA
 GATCGTCCCGAGTATCCGACGCGCCCAACTGCATCCTACTGGCCATGTTCTCGTCCA
 CTACAGGCATAGGCGCTTAATTTACACATTTCTGATGCGAGGAGGAAAGCCTATGCCACT
 GCTGGCGTGTACAACGGCGAATATGCTCTGTACCTGTAACGGCTATTTCCCAAGCAGATA
 CTTGAGCCATTGTGCAGCGCATGCTGACGACTGGGTAACAGATCCCCCGTTCTAATAAG
 TCTTGGCTTGTGGTTAACGGGCATGTTGATACACATCCATTGAGATCATATCCTAAGGAA
 TCTCAGAAAACCAGGAGATACTGGATACACAATACCAAGGGNAGGCTTTATTTGATACG
 TCACTGCAGCCACTATTTTGGGAGAATCATGGAGTGGGTGTGGGTATGCCCTGCCAG
 CTGGTCTGCCAAGGCGCGGGTTTTGCTTTCTTACGAATGGTTTTTATCTGGTCAAGCA
 AAAGACATCATGAGTGGGACCTT

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001047 unedited
 CGCGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAT
 GGCAAAGTCTATTTATTATGTTGTTAAAGACAACGAAACAAATGGCATTAAAAACTCC
 AGATGAAATGATAAGGCAAAGCAATGCCAGATGAATTCATCAAGATAAAAAGCAGTATGG
 CAATGTTTTTATCAAAGTAAAATTCAAGTCATGAAGCATTCAACAGGAAGATTATTTTAT
 ATTGATAACAGGTACAGGCTATGAGGGGAAAGCTTTCGAAAGCAACAACAGCAAAACAGA
 AAGCAAAAACATTTAAAAGGAAGATTACCTATGGAAAAAAAAAAGGCTGAAAAATTT
 TAACAATTATTATGTTTCAATCAACAAAGAACAACAGGATAAATCTTAAAAAGTGGTCT
 TGTTATTGTTACAAAAGTGATCATTCTTTACACTACAAGGAAAAACTCAAATCTACAA
 AAGAGAAATTTACAGACAACAATCTCTACTATATCCATACGTGGGGAACAGAACAAAA
 AACTAGGTCTAGACTAGAAGACAGAGAGAAACCATGTCAGACCAGAGCACATTGATGGCT
 CACGGTGAGTGACCCATGGCCTAAAGGTGCCTGTTTAGGGCCAGGAGCCACTCACACAG
 GCAGAGCAGCTTACTCCGTATGAACCACCAGCACCCTCCCTGCCCGGTGATGTCAC
 CCGTGGGCTGGGCTGGAACAGTCCAGATGCCTTTGCCTCACCTGGAAAGGCCACGAGGA
 GCTTCTCCTCTTCCCAAGTTTCCACTTACCACAGCACCTGACACAATGTGGNCAAGTT
 TCCCCGGGCATGACTGCACATGGCTACCCCAACCTTATGGCTCGAGAGAGCCTCTAAAC
 GTATTCACCCTTAGGGGNAGGAACAACCTGCATTGACCTGAA

Restriction Sites: NotI-NotI

ACCN: NM_001047

Insert Size: 2380 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

RefSeq: [NM_001047.1](#), [NP_001038.1](#)

RefSeq Size: 2285 bp

RefSeq ORF: 780 bp

Locus ID: 6715

UniProt ID: [P18405](#)

Domains: Steroid_dh

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Androgen and estrogen metabolism

Gene Summary: Steroid 5-alpha-reductase (EC 1.3.99.5) catalyzes the conversion of testosterone into the more potent androgen, dihydrotestosterone (DHT). Also see SRD5A2 (MIM 607306).[supplied by OMIM, Mar 2008]