

## Product datasheet for SC112141

### SRD5A3 (NM\_024592) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SRD5A3 (NM_024592) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRD5A3
Synonyms:	CDG1P; CDG1Q; KRIZI; SRD5A2L; SRD5A2L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112141 sequence for NM_024592 edited (data generated by NextGen Sequencing)

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ATGGCTCCCTGGGCGGAGGCCGAGCACTCGGCGCTGAACCGCTGCGCGGTGTGGCTC
ACGCTGACCGCCGCTTCTGCTGACCCTACTGCTGCAGCTCCTGCCGCCGGCCTGCTC
CCGGGCTGCGCGATCTTCCAGGACCTGATCCGCTATGGGAAAACCAAGTGTGGGAGCCG
TCGCGCCCGCCGCTGCCGAGCCTTTGATGTCCCAAGAGATATTTTCCCACTTTTAT
ATCATCTCAGTGCTGTGGAATGGCTTCTGCTTTGGTGCCTTACTCAATCTCTGTTCTG
GGAGCACCTTTTCCAAGCTGGCTTCATGGTTTGCTCAGAATTCTCGGGGCGGCACAGTTC
CAGGGAGGGGAGCTGGCACTGTCTGCATTCTTAGTGCTAGTATTTCTGTGGCTGCACAGC
TTACGAAGACTCTTCGAGTGCCTCTACGTCAGTGTCTTCTCCAATGTCATGATTCAGTTC
GTGCACTACTGTTTTGGACTTGTCTATTATGTCCTTGTGGCCTAACTGTGCTGAGCCAA
GTGCCAATGGATGGCAGGAATGCCTACATAACAGGGAAAAATCTATTGATGCAAGCACGG
TGGTTCCATATTCTTGGGATGATGATGTTTCTGTCATCTGCCCATCAGTATAAAGTGC
CATGTTATTCTCGGCAATCTCAGGAAAAATAAAGCAGGAGTGGTCATTCACTGTAACCAC
AGGATCCCATTTGGAGACTGGTTTGAATATGTTTCTTCCCTAACTACTAGCAGAGCTG
ATGATCTACGTTTCCATGGCCGTACCTTTGGTTCCACAACCTAACTTGGTGGCTAGTG
GTGACAAATGTCTTCTTAAATCAGGCCCTGTCTGCCTTCTCAGCCCAATTCTACAAA
AGCAAATTTGTCTTTACCCGAAGCATAGGAAAGCTTCTACCATTTTTGTTTTAA

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Clone variation with respect to NM\_024592.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_024592 unedited            GTAACGTCAGAATTTGTATACGACTCACTATAGGCGGCCGCAATCGGCACGAGGGGCTA            GCGGGCGGTGGGGGCGCCAGCAGCGCGGAAGGCGGGCACGCGGGCCATGGCTCCCTGGGC            GGAGGCCGAGCACTCGGCGCTGAACCCGCTGCGCGCGGTGTGGCTCACGCTGACCGCCG            CTTCTGCTGACCCTACTGCTGCAGCTCCTGCCGCCGGCCTGCTCCCGGGCTGCGCGAT            CTTCCAGGACCTGATCCGCTATGGGAAAACCAAGTGTGGGAGCCGTCGCGCCCCGCGC            CTGCCGAGCCTTTGATGTCCCCAAGAGATATTTTTCCACTTTTATATCATCTCAGTGCT            GTGGAATGGCTTCTGCTTTGGTGCCTTACTCAATCTCTGTTCCCTGGGAGCACCTTTCC            AAGCTGGCTTCATGGTTTGTCTAGAATTCTCGGGCGGCACAGTTCAGGGAGGGGAGCT            GGCAGTGTCTGCATTCTTAGTGCTAGTATTTCTGTGGCTGCACAGCTTACGAAGACTCTT            CGAGTGCCTCTACGTCAGTGTCTTCTCCAATGTCATGATTACGTCGTGCAGTACTGTTT            TGGACTTGTCTATTATGCCTTGTGGCCTAACTGTGCTGAGCCAAGTGCCAATGGATGG            CAGGAATGCCTACATAACAGGGAAAAATCTATTGATGCAAGCACGGTNGGTTCCATATTC            TTGGGATGATGATGTTTCATCTGGTCATCTGCCATCAGTATAAGTGCCATGTTATTCTCG            GCAATCTCAGGGAAAATAAGCCAGAGTGGTCATCACTGGTACCACAGGATCCCATTNG            NAGACTGGNTTGTATGTTTTCTTNCCTNACTACTTAGCAGAGCTGATGATCTACGTT            TCCATGGCCGTCACCTA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_024592 unedited            GGCACGCAATTCTAAATCGAGTTTTTTTTTTTTTTTTTTTGGCAGATTTGACATTATTATT            ATTCTTTGAAGATACTTTGGTAGATTCATTTTCTTGAGTGGCACTGCCATGCTCATTTCAT            AGAAAACCTGTGGGTATAGAAATGGAATGGAGAGTTTCAAACAGCTTTGCTGAAACTGT            ACTTTGGGCTCCAGACTCTCCTGTCCTTATGCATTGAAACCATCACCTGGCTTGCAATTCT            TAATGACTGAGGTTAACTTAAAACAAACATGGCAGGAAAGCTTTCCTATGCTTCGGGTAA            GAGACAAATTTGCTTTTGTACAATTGGCGGCTGACAAAGGCACACAGGCACTGCTTAAAC            AACACATTTGCCACCACTATCCACCCAAGTTAACCCGTGGAACCCACAGGTGACGGCCAT            GGAAACGCACATCATCCTCTGCTAAGCACCTAGGGGAAGAAACATATTCTAACCAATC            TCCAAATGGGATCCTGTGGCCACCGTGAATGACCACTCCCCGTTTTATTTTCCCCTGAGA            TTGACGACAAATACCCTGGCCCTTATCCCTGTGGGCATATGACCACATGAACCTCATCT            TGCAAGAATATGGGCACCACCGCTTGCATAAATACATTTACATCTGTTATGAAAGCAA            TACCTGACATTACCAATTTGGCACCTTGTCTCAAGTCAGTTTGGCCCCACGGACCTATT            GACAAGTCCAAATCAGCACCTGCGCGAAGGTGAATCCATGACATCGTGAGAAAAACCTT            GACGTACACGCCCTCCCAAAAGTCTTTTCGCTAGTCCGCGCCACCCACACACAATACTTA            CCACCTAACAAATGCCCCACTGGGCCACATACATCTTCCCTTGAAACTGGGGCCGATCT            CGAAAAATCTGTGACCACCCCTGATACCACCCCTGGTAAAAGCGGCTCCACGGACCC            ACAATTGGGCCACGCGCCAAGTTGGAATTCCTTCCAGGCTCGAAAGATTAAGCGG            CTACAAATCTCTGGCGACTAN</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024592
<b>Insert Size:</b>	1250 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).

**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\\_024592.1](#), [NP\\_078868.1](#)

**RefSeq Size:** 2271 bp

**RefSeq ORF:** 957 bp

**Locus ID:** 79644

**UniProt ID:** [Q9H8P0](#)

**Cytogenetics:** 4q12

**Domains:** Steroid\_dh

**Protein Families:** Transmembrane

**Protein Pathways:** Androgen and estrogen metabolism

**Gene Summary:** The protein encoded by this gene belongs to the steroid 5-alpha reductase family, and polyprenol reductase subfamily. It is involved in the production of androgen 5-alpha-dihydrotestosterone (DHT) from testosterone, and maintenance of the androgen-androgen receptor activation pathway. This protein is also necessary for the conversion of polyprenol into dolichol, which is required for the synthesis of dolichol-linked monosaccharides and the oligosaccharide precursor used for N-linked glycosylation of proteins. Mutations in this gene are associated with congenital disorder of glycosylation type Iq. [provided by RefSeq, Mar 2011]