

## Product datasheet for **RG202747**

### **SRD5A1 (NM\_001047) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
 Product Name: SRD5A1 (NM\_001047) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: SRD5A1  
 Synonyms: S5AR 1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG202747 representing NM\_001047  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAACGGCGACGGGGTGCGGAGGAGCGCCTGCTGGCCGCGCTCGCCTACCTGCAGTGCGCCGTGG  
 GCTGCGCGGTCTTCGCGCGGAATCGTCAGACGAACTCAGTGTACGGCCGCCACGCGCTGCCAGCCACAG  
 GCTCCGAGTGCCGGCGCGGGCCGCTGGGTGGTGCAGGAGCTGCCCTCGCTGGCCCTGCCGCTCTACCAG  
 TACGCCAGCGAGTCCGCCCGCGTCTCCGACGCGGCCAACTGCATCCTCCTGGCCATGTTCTCTGTC  
 ACTACGGGCATCGGTGCTTAATTTACCCATTTCTGATGCGAGGAGAAAGCCTATGCCACTGTTGGCGTG  
 TACAATGGCGATTATGTTCTGTACCTGTAAACGGCTATTTGCAAAGCAGATACTTGAGCCATTGTGCAGTG  
 TATGCTGATGACTGGTAACAGATCCCCGTTTTCTAATAGGTTTTGGCTTGTTAACGGGCATGTTGA  
 TAAACATCCATTAGATCATATCCTAAGGAATCTCAGAAAACCAGGAGATACTGGATACAAAATACCAAG  
 GGGAGGCTTATTTGAATACGTAACGCAACTATTTGGAGAAATCATGGAGTGGTGTGGCTATGCC  
 CTGGCCAGCTGGTCTGTCCAAGGCGCGCTTTTGCTTTCTCACGTTTTGTTTTTATCTGGTAGAGCAA  
 AAGAGCATCATGAGTGGTACCTCCGAAATTTGAAGAGTATCAAAGTTCAGAAAATTATAATTCATT  
 TTTGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202747 representing NM\_001047  
 Red=Cloning site Green=Tags(s)

MATATGVAEERLLAALAYLQCAVGC AVFARNRQTNSVYGRHALPSHRLRVPARA AWWVQELPSLALPLYQ  
 YASESAPRLRSAPNCILLAMFLVHYGHRCL IYPFLMRGGKPMPL LACTMAIMFCTCNGYLQSRYL SHCAV  
 YADDWVT DPRFLIGFGLWLTGMLINIHS DHILRNLRKPGDTGYKIPRGGLFEYVTAANYFGEIM EWCGYA  
 LASWSVQGA AFAFFTFCFLSGRAKEH HEWYLRKFEEYPKFRKIIIPFLF

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3756\\_b03.zip](https://cdn.origene.com/chromatograms/ja3756_b03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001047

**ORF Size:** 777 bp

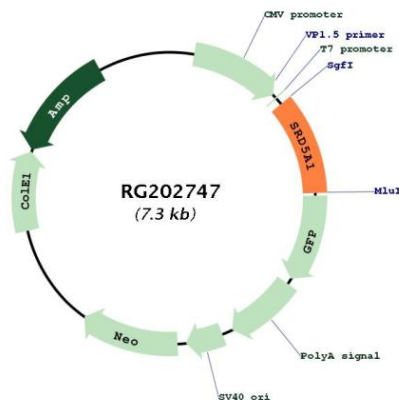
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>NM_001047.2, NP_001038.1</u>
<b>RefSeq Size:</b>	2285 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	6715
<b>UniProt ID:</b>	<u>P18405</u>
<b>Cytogenetics:</b>	5p15.31
<b>Domains:</b>	Steroid_dh
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Androgen and estrogen metabolism
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RG202747