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Product datasheet for RC202747

SRD5A1 (NM_001047) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SRD5A1 (NM_001047) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SRD5A1
Synonyms:	S5AR 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202747 representing NM_001047
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAACGGCGACGGGGGTGGCGGAGGAGCGCCTGCTGGCCGCGCTCGCCTACCTGCAGTGCGCCGTGG
GCTGCGCGGTCTTCGCGCGGAATCGTCAGACGAACTCAGTGTACGGCCGCCACGCGCTGCCCAGCCACAG
GCTCCGAGTGCCGGCGCGGGCCGCCTGGGTGGTGCAGGAGCTGCCCTCGCTGGCCCTGCCGCTCTACCAG
TACGCCAGCGAGTCCGCCCCGCGTCTCCGCAGCGCGCCCAACTGCATCCTCCTGGCCATGTTCCTCGTCC
ACTACGGGCATCGGTGCTTAATTTACCCATTTCTGATGCGAGGAGGAAAGCCTATGCCACTGTTGGCGTG
TACAATGGCGATTATGTTCTGTACCTGTAACGGCTATTTGCAAAGCAGATACTTGAGCCATTGTGCAGTG
TATGCTGATGACTGGGTAACAGATCCCCGTTTTCTAATAGGTTTTGGCTTGTGGTTAACGGGCATGTTGA
TAAACATCCATTCAGATCATATCCTAAGGAATCTCAGAAAACCAGGAGATACTGGATACAAAATACCAAG
GGGAGGCTTATTTGAATACGTAACTGCAGCCAACTATTTTGGAGAAATCATGGAGTGGTGTGGCTATGCC
CTGGCCAGCTGGTCTGTCCAAGGCGCGGCTTTTGCTTTCTTCACGTTTTGTTTTTTATCTGGTAGAGCAA
AAGAGCATCATGAGTGGTACCTCCGGAAATTTGAAGAGTATCCAAAGTTCAGAAAAATTATAATTCCATT
TTTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC202747 representing NM_001047
Red=Cloning site Green=Tags(s)

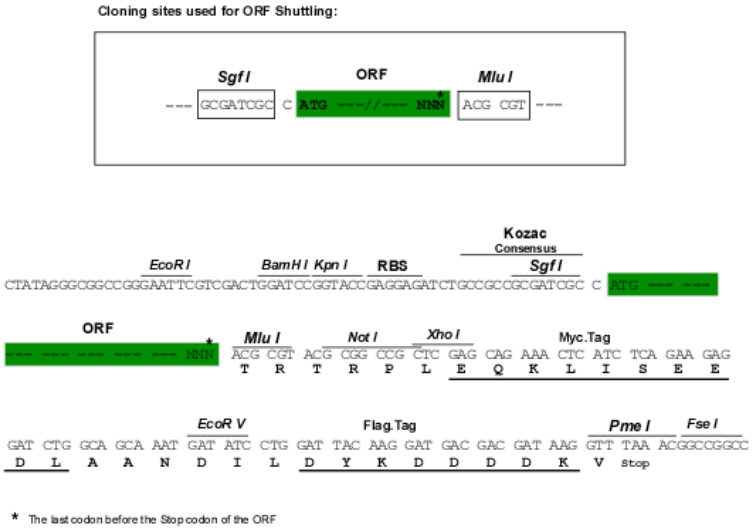
MATATGVAEERLLAALAYLQCAVGCAVFARNRQTNSVYGRHALPSHRLRVPARAAWVVQELPSLALPLYQ
YASESAPRLRSAPNCILLAMFLVHYGHRCLIYPFLMRGGKPMPLLACTMAIMFCTCNGYLQSRYLSHCAV
YADDWVTDPRFLIGFGLWLTGMLINIHSDHILRNLRKPGDTGYKIPRGGLFEYVTAANYFGEIMEWCGYA
LASWSVQGAAFAFFTFCFLSGRAKEHHEWYLRKFEEYPKFRKIIIPFLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3642_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001047

ORF Size: 777 bp

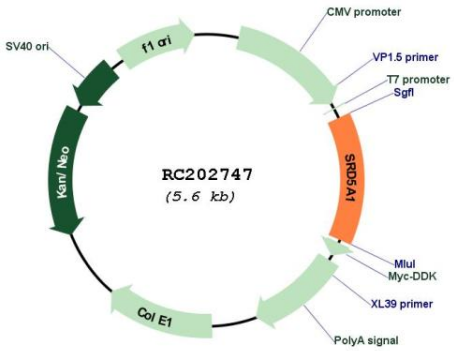
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA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

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_001047.4
RefSeq Size:	2285 bp
RefSeq ORF:	780 bp
Locus ID:	6715
UniProt ID:	P18405
Cytogenetics:	5p15.31
Domains:	Steroid_dh
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Androgen and estrogen metabolism
MW:	29.3 kDa
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]

Product images:



Circular map for RC202747