

Product datasheet for **RC200970**

SRD5A3 (NM_024592) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SRD5A3
Synonyms:	CDG1P; CDG1Q; KRIZI; SRD5A2L; SRD5A2L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200970 representing NM_024592 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCCTGGGCGGAGGCCGAGCACTCGGCGCTGAACCCGCTGCGCGCGGTGTGGCTCACGCTGACCG
CCGCCTTCCTGCTGACCCTACTGCTGCAGCTCCTGCCGCCCGGCCTGCTCCCGGGCTGCGCGATCTTCCA
GGACCTGATCCGCTATGGGAAAACCAAGTGTGGGAGCCGTCGCGCCCCGCCCTGCCGAGCCTTTGAT
GTCCCCAAGAGATATTTTCCCACTTTTATATCATCTCAGTGCTGTGGAATGGCTTCTGCTTTGGTGCC
TTACTCAATCTCTGTTTCTGGGAGCACCTTTTCCAAGCTGGCTTCATGGTTTGCTCAGAATTCTCGGGGC
GGCACAGTTCAGGGAGGGGAGCTGGCACTGTCTGCATTCTTAGTGCTAGTATTTCTGTGGCTGCACAGC
TTACGAAGACTCTTCGAGTGCCTCTACGTCACTGTCTTCTCCAATGTCATGATTCACGTCGTGCAGTACT
GTTTTGGACTTGTCTATTATGTCCTTGTGGCCTAACTGTGCTGAGCCAAGTGCCAATGGATGGCAGGAA
TGCCTACATAACAGGGAAAAATCTATTGATGCAAGCACGGTGGTCCATATTCTTGGGATGATGATGTTT
ATCTGGTCATCTGCCATCAGTATAAGTGCCATGTTATTCTCGGCAATCTCAGGAAAAATAAGCAGGAG
TGGTCATTCAGTGAACACAGGATCCCATTTGGAGACTGGTTTGAATATGTTTCTTCCCTAACTACTT
AGCAGAGCTGATGATCTACGTTTCCATGGCCGTACCTTTGGGTCCACAACCTAACTTGGTGGCTAGTG
GTGACAAATGTCTTTAATCAGGCCCTGTCTGCCTTTCTCAGCCACCAATTCTACAAAAGCAAATTTG
TCTCTTACCCGAAGCATAGGAAAGCTTTCTACCATTTTTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200970 representing NM_024592
 Red=Cloning site Green=Tags(s)

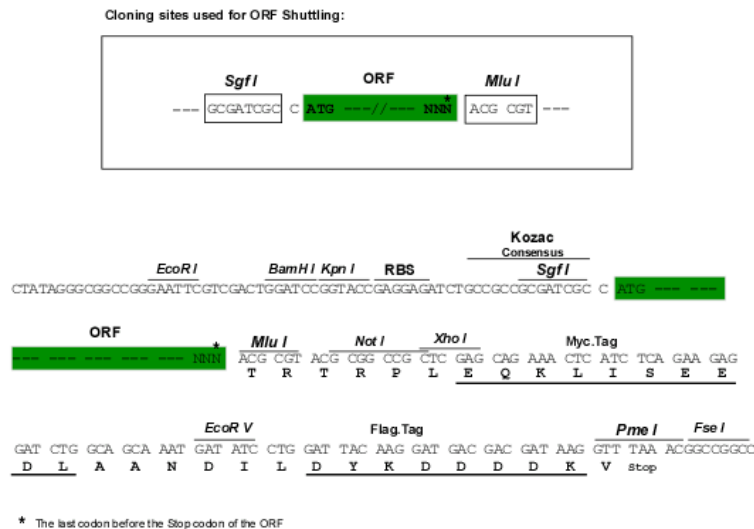
MAPWAEAEHSALNPLRAVWLTLTAAFLLTLLQLLPPGLLPGCAIFQDLIRYGTKCKGEPSRPAACRAFD
 VPKRYFSHFYIISVLWNGFLLWCLTQSLFLGAPFPSWLHGLLRILGAAQFQGGELALSAFLVFLWLHS
 LRRLECLYVSFVSNVMIHVQYCFGLVYYVLVGLTVLSQVPMGRNAYITGKNLLMQARWFHILGMMMF
 IWSSAHQYKCHVILGNLRKNKAGVVIHCNHRIPFGDWFEYVSSPNYLAELMIYVSMVTFGFHNLTWLWV
 VTNVFFNQALSAFLSHQFYKSKFVSPYKHKRAFLPFLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4286_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024592

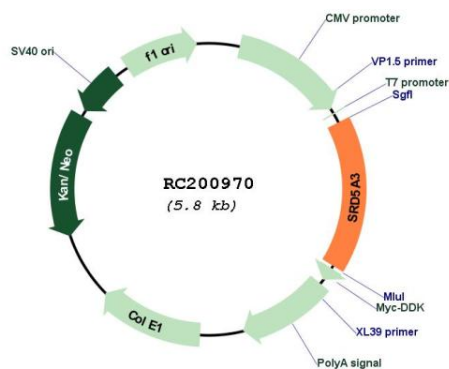
ORF Size: 954 bp

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.

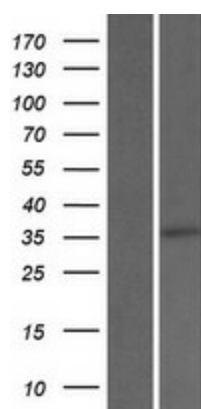
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024592.5
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
MW:	36.3 kDa
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]

Product images:



Circular map for RC200970



Western blot validation of overexpression lysate (Cat# [LY411208]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200970 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).