

Product datasheet for **RC207577**

Steroidogenic Factor 1 (NR5A1) (NM_004959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Steroidogenic Factor 1 (NR5A1) (NM_004959) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Steroidogenic Factor 1
Synonyms:	AD4BP; ELP; FTZ1; FTZF1; hSF-1; POF7; SF-1; SF1; SPGF8; SRXX4; SRXY3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC207577 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACTATTCGTACGACGAGGACCTGGACGAGCTGTGCCCGTGTGCGGGGACAAGGTGTCCGGCTACC
 ACTACGGACTGCTCACGTGTGAGAGCTGCAAGGCTTCTTCAAGCGCACGGTGCAGAACAACAAGCACTA
 CACGTGCACCGAGAGCCAGAGCTGCAAGATCGACAAGACGACGCAAGCGCTGTCCCTTCTGCCGCTC
 CAGAAATGCCTGACGGTGGGATGCGCCTGGAAGCCGTGCGCGCTGACCGTATGAGGGGTGGCCGGAACA
 AGTTTGGGCCGATGTACAAGCGGGACCGGGCCCTGAAACAGCAGAAGAAGGCACAGATTCGGGCCAATGG
 CTTCAAGCTGGAGACAGGGCCCCGATGGGGTGGCCCCGCCGCCCTCCCGCACCGGACTACGTGCTG
 CCTCCAGCTGCATGGCCTGAGCCAAAGGGCTGGCCGCCGGTCCACCTGCTGGGCCACTGGGCGACT
 TTGGGGCCCCAGCACTGCCATGGCCGTGCCCGTGGCCAGGGCCACTGGCTGGCTACCTTACCTGCTG
 CTTTCTGGCCGTGCCATCAAGTCTGAGTACCCGGAGCCTTATGCCAGCCCCCACAGCCTGGGCTGCCG
 TACGGCTACCCAGAGCCCTTCTCTGGAGGGCCAACTGCCTGAGCTCATCCTGCAGCTGCTGCAGCTGG
 AGCCGGATGAGGACCAGGTGCGGGCCCGCATCTTGGGCTGCCTGCAGGAGCCACCAAAAGCCGCCCGCA
 CCAGCCGGCGGCCTTCGGCCTCCTGTGCAGAATGGCCGACCAGACCTTCACTCCATCGTGGACTGGGCA
 CGCAGGTGCATGGTCTTCAAGGAGCTGGAGGTGGCCGACCAGATGACGCTGCTGCAGAACTGCTGGAGCG
 AGCTGCTGGTGTTCGACCACATCTACCGCCAGGTCCAGCACGGCAAGGAGGGCAGCATCCTGCTGGTCA
 CGGGCAGGAGTGGAGCTGACCAGTGGCCACCCAGGCGGGCTCGTGTGCACAGCCTGGTGTTCGGG
 GCGCAGGAGCTGGTGTGCTGAGCTGCTTGGCTGCAGCTGGACCGGAGGAGTTGTCTGCCTCAAGTTCA
 TCATCCTTTCAGCCTGGATTTGAAGTCTCTGAATAACACATCCTGGTGAAGAGCAGCTCAGGAGAAGG
 CAACGCCGCCCTGCTTGACTACACCCTGTGCCACTACCCGCACTGCGGGGACAAATTCAGCAGCTGCTG
 CTGTGCCCTGGTGGAGGTGCGGGCCCTGAGCATGCAGGCCAAGGAGTACCTGTACCACAAGCACCTGGGCA
 ACGAGATGCCCGCAACAACCTGCTCATCGAAATGCTGCAAGCCAAGCAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207577 protein sequence
 Red=Cloning site Green=Tags(s)

MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSCKIDKTQRKRCPCFRF
 QKCLTVGMRLEAVRADMRGGRNKFPGMYKRDALKQKKAQIRANGFKLETGPPMGVPPPPPPAPDYVL
 PPSLHGPEPKGLAAGPPAGPLGDFGAPALPMAVPGAHGPLAGYL YPAFPGRAIKSEYPEPYASPPQGLP
 YGYPEPFSGGPNVPELILQLLQLEPDEDQVRARILGCLQEPTKSRPDQPAAFGLLCRMADQTFISIVDWA
 RRCMVFKELVADQMTLLQNCWSELLVFDHIYRQVQHKGESILLVTGQEVELTTVATQAGSLLHSLVLR
 AQELVLQLLALQLDRQEFVCLKFIIILFSLDLKFLNNHILVKDAQEKANAALLDYTLCHYPHCGDKFQQLL
 LCLVEVRALSMQAKEYL YHKHLGNEMPRNLLIEMLQAKQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6272_b01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004959

ORF Size: 1383 bp

OTI Disclaimer: 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_004959.5](#)

RefSeq Size: 3095 bp

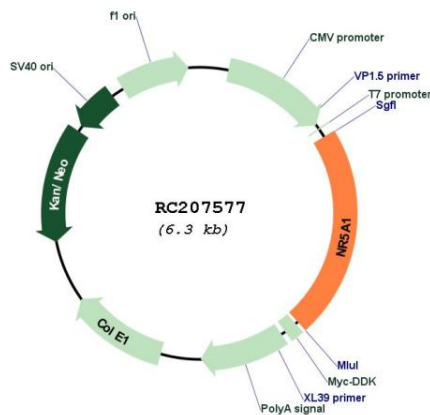
RefSeq ORF: 1386 bp

Locus ID: 2516

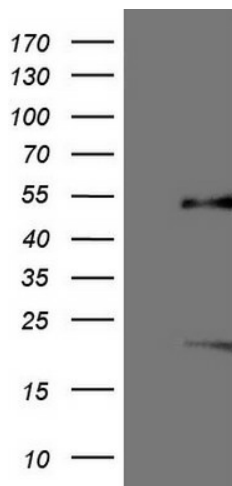
UniProt ID: [Q13285](#)
Cytogenetics: 9q33.3
Protein Families: Druggable Genome, Transcription Factors
MW: 51.6 kDa

Gene Summary: The protein encoded by this gene is a transcriptional activator involved in sex determination. The encoded protein binds DNA as a monomer. Defects in this gene are a cause of XY sex reversal with or without adrenal failure as well as adrenocortical insufficiency without ovarian defect. [provided by RefSeq, Jul 2008]

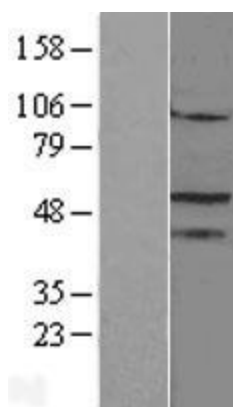
Product images:



Circular map for RC207577



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NR5A1 (Cat# RC207577, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NR5A1 (Cat# [TA806157]). Positive lysates [LY417628] (100ug) and [LC417628] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417628]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207577 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).