

## Product datasheet for **MC216296**

### Nr5a1 (NM\_139051) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nr5a1 (NM_139051) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nr5a1
Synonyms:	Ad4BP; ELP; ELP-3; Ftz-F1; Ftzf1; SF-1; SF1; STF-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216296 representing NM\_139051  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACTATTCGTACGACGAGGACCTGGACGAGCTGTGTCCAGTGTGTGGTGACAAGGTGTGGGCTACC  
 ACTACGGGCTGCTCACGTGCGAGAGCTGCAAGGGCTTCTCAAGCGCACAGTCCAGAACAACAAGCATT  
 CACGTGCACCGAGAGTCAGAGCTGCAAAATCGACAAGACGACGCGTAAGCGCTGTCCCTTCTGCCGCTC  
 CAGAAAGTGCCTGACGGTGGGCATGCGCCTGGAAGCTGTGCGTGCTGATCGAATGCGGGGTGGCCGGAACA  
 AGTTTGGGCCCATGTACAAGAGAGACCGGGCTTGAAGCAGCAGAAGAAAGCACAGATTCGGGCCAATGG  
 CTTCAAGCTGGAGACCGGACCACCGATGGGGTGGCCCCGCCACCCCTCCCCACCGGACTACATGTTA  
 CCCCTAGCCTGCACGCACCGGAGCCAAAGGCCCTGGTCTCTGGCCACCCAGTGGGCCGCTGGGTGACT  
 TTGGAGCCCCATCTACCCATGGCTGTGCTGGTCCCCACGGACCTCTGGCTGGCTACCTATCTCTGC  
 CTTCTCTAACCGACCATCAAGTCTGAGTATCCAGAGCCCTATGCCAGCCCCACAACAGCCAGGGCCA  
 CCCTACAGCTATCCAGAGCCCTTCTCAGGAGGGCCCAATGTACCAGAGCTCATATTGCAGCTGTGCAAC  
 TAGAGCCAGAGGAGGACAGGTGCGCGCTCGCATCGTGGGCTGTCTGCAGGAGCCAGCCAAAAGCCGCTC  
 TGACCAGCCAGCGCCCTTCAAGCTCCTCTGCGAATGGCCGACCAGACCTTTATCTCCATTGTGACTGG  
 GCACGAAGGTGCATGGTCTTTAAGGAGCTGGAGGTGGCTGACCAGATGACTGCTGCAGAACTGTTGGA  
 GCGAGCTGCTGGTGTGGACCACATCTACCGCCAGGTCCAGTACGGCAAGGAAGACAGCATCCTGCTGGT  
 TACTGGACAGGAGGTGGAGCTGAGCACAGTGGCTGTGCAGGCTGGCTCCCTGCTGCACAGCCTGGTGTG  
 CGGGCCCAAGAGTTAGTGTCCAGTTCATGCATGCAGCTGGACCGCCAGGAGTTCGTCTGTCTCAAGT  
 TCCTCATCCTCTCAGCCTCGATGTGAAATTCCTGAACAACCACAGCCTCGTAAAGGACGCCAGGAAAA  
 GGCCAACGCTGCCCTGTTGGATTACACCTTGTGTCACTACCCACACTGCGGGGACAAAATTCAGCAGTTG  
 CTATTGTGCTGGTGGAGGTGCGGGCCCTGAGCATGCAGGCCAAGGAGTACCTGTACCACAAGCATTGG  
 GCAACGAGATGCCCGCAACAACCTTCTCATTGAGATGCTGCAGGCCAAGCAGACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1780\\_a01.zip](https://cdn.origene.com/chromatograms/ja1780_a01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_139051

**Insert Size:** 1389 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](#)

<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>	<a href="#">BC110476</a> , <a href="#">AAI10477</a>
<b>RefSeq Size:</b>	2947 bp
<b>RefSeq ORF:</b>	1389 bp
<b>Locus ID:</b>	26423
<b>UniProt ID:</b>	<a href="#">P33242</a>
<b>Cytogenetics:</b>	2 24.42 cM
<b>Gene Summary:</b>	<p>Transcriptional activator. Seems to be essential for sexual differentiation and formation of the primary steroidogenic tissues. Binds to the Ad4 site found in the promoter region of steroidogenic P450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the AMH/Muellerian inhibiting substance gene as well as the AHCH and STAR genes. 5'-YCAAGGYC-3' and 5'-RRAGGTCA-3' are the consensus sequences for the recognition by NR5A1. The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity (By similarity). Transcription repressor of the Moloney leukemia virus long terminal repeat in undifferentiated murine embryonal carcinoma cells. Binds phosphatidylcholine and phospholipids with a phosphatidylinositol (PI) headgroup, in particular phosphatidyl(3,4)bisphosphate, phosphatidyl(3,5)bisphosphate and phosphatidyl(3,4,5)triphosphate. Activated by the phosphorylation of NR5A1 by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation.</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.</p>