

Product datasheet for **MR226236**

Nr5a1 (NM_139051) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr5a1 (NM_139051) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226236 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTATTCGTACGACGAGGACCTGGACGAGCTGTGTCCAGTGTGTGGTGACAAGGTGTGGGCTACC
 ACTACGGGCTGCTCACGTGCGAGAGCTGCAAGGGCTTCTCAAGCGCACAGTCCAGAACAACAAGCATT
 CACGTGCACCGAGAGTCAGAGCTGCAAAATCGACAAGACGACGCTAAGCGCTGTCCCTTCTGCCGCTC
 CAGAAGTGCCTGACGGTGGGCATGCGCCTGGAAGCTGTGCGTGCTGATCGAATGCGGGGTGGCCGGAACA
 AGTTTGGGCCCATGTACAAGAGAGACCGGGCTTGAAGCAGCAGAAGAAAGCACAGATTCGGGCCAATGG
 CTTCAAGCTGGAGACCGGACCACCGATGGGGTGGCCCCGCCACCCCTCCCCACCGGACTACATGTTA
 CCCCTAGCTGCACGCACCGGAGCCAAAGGCCCTGGTCTCTGGCCACCCAGTGGGCCGCTGGGTGACT
 TTGGAGCCCCATCTACCCATGGCTGTGCTGGTCCCCACGGACCTCTGGCTGGCTACCTATCTCTGC
 CTTCTCTAACCGACCATCAAGTCTGAGTATCCAGAGCCCTATGCCAGCCCCACAACAGCCAGGGCCA
 CCTACAGCTATCCAGAGCCCTTCTCAGGAGGGCCCAATGTACCAGAGCTCATATTGCAGCTGTGCAAC
 TAGAGCCAGAGGAGGACAGGTGCGCGCTCGCATCGTGGGCTGTCTGCAGGAGCCAGCCAAAAGCCGCTC
 TGACCAGCCAGCGCCCTTCAGCCTCCTCTGCGAATGGCCGACCAGACCTTTATCTCCATTGTGACTGG
 GCACGAAGGTGCATGGTCTTTAAGGAGCTGGAGGTGGCTGACCAGATGACTGCTGCAGAACTGTTGGA
 GCGAGCTGCTGGTGTGGACCACATCTACCGCCAGGTCCAGTACGGCAAGGAAGACAGCATCCTGCTGGT
 TACTGGACAGGAGGTGGAGCTGAGCACAGTGGCTGTGCAGGCTGGCTCCCTGTGACAGCCTGGTGTG
 CGGGCCCAAGAGTTAGTGTCCAGTTCATGCATGACTGCAGCTGGACCGCCAGGAGTTCGTCTGTCTCAAGT
 TCCTCATCCTCTCAGCCTCGATGTGAAATTCCTGAACAACCACAGCCTCGTAAAGGACGCCAGGAAAA
 GGCCAACGCTGCCCTGTTGGATTACACCTTGTGTCACTACCCACACTGCGGGGACAAATTCAGCAGTTG
 CTATTGTGCTGGTGGAGGTGCGGGCCCTGAGCATGCAGGCCAAGGAGTACCTGTACCACAAGCATTGG
 GCAACGAGATGCCCGCAACAACCTTCTCATTGAGATGCTGCAGGCCAAGCAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226236 protein sequence
 Red=Cloning site Green=Tags(s)

MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSCKIDKTQRKRCPCFRF
 QKCLTVGMRLEAVRADMRGGRNKFPMYKRDALKQQKKAQIRANGFKLETGPPMGVPPPPPPPPDYML
 PPSLHAPEPKALVSGPPSGPLGDFGAPSLPMAVPGPHGLAGYL YPAFSNRTIKSEYPEPYASPPQQPGP
 PYSYPEPFSGGPNVPELILQLLEPEEDQVRARIVGCLQEPAKSRSDQPAPFSLCRMADQTFISIVDW
 ARRCMVFKLEVADQMTLLQNCWSELLVLDHIYRQVQYKEDSILLVTGQEVELSTVAVQAGSLLHSLVL
 RAQELVLQLHALQLDRQEFVCLKFLILFSLDVKFLNNHSLVKDAQEKANAALLDYTLCHYPHCGDKFKQL
 LLCLVEVRALSMQAKEYL YHKHLGNEMPRNLLIEMLQAKQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

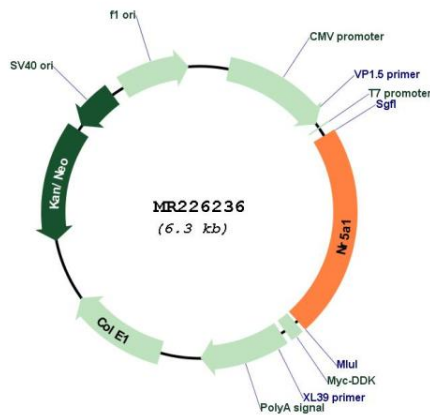
Restriction Sites:

Sgfl-MluI

RefSeq: [NM_139051.3, NP_620639.1](#)
RefSeq Size: 2947 bp
RefSeq ORF: 1389 bp
Locus ID: 26423
UniProt ID: [P33242](#)
Cytogenetics: 2 24.42 cM
MW: 52.1 kDa

Gene Summary: 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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226236