

Product datasheet for **MR226737**

Ar (NM_013476) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ar (NM_013476) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ar
Synonyms:	AW320017; Tfm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR226737 representing NM_013476
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGTGCAGTTAGGGCTGGGAAGGGTCTACCCACGGCCCCATCCAAGACCTATCGAGGAGCGTTCC
 AGAATCTGTTCCAGAGCGTGCAGGAAAGCGATCCAGAACCAGGGCCAGGCACCCAGGCGCTAACAT
 AGCACCTCCCGGCGCTGTTTACAGCAGAGGCAGGAGACTAGCCCCGGCGGCGGCGGCAGCAGCAC
 ACTGAGGATGGTTCTCTCAAGCCACATCAGAGGCCACAGGCTACCTGGCCCTGGAGGAGGAACAGC
 AGCCTTACAGCAGCAGGAGCCTCCGAGGGCCACCTGAGAGCAGCTGCCTCCCGAGCCTGGGGCGGC
 CACCGCTCTGGCAAGGGGCTGCCGAGCAGCCACCAGCTCCTCCAGATCAGGATGACTCAGCTGCCCA
 TCCACGTTGTCCCTGCTGGGCCCACTTCCAGGCTTAAGCAGCTGCTCCGCCGACATTAAGACATTT
 TGAACGAGGCCGGCACCATGCAACTTCTCAGCAGCAGCAACAACAGCAGCAGCACAACAGCAGCACA
 ACAGCACAACAGCAGCAGGAGTAATCTCCGAAGGCAGCAGCGCAAGAGCCAGGGAGGCCACGGGGCT
 CCCTCTTCTCCAAGGATAGTTACCTAGGGGGCAATTAACCATATCTGACAGTCCAAAGGATTTGTGA
 AAGCAGTGTCTGTGCCATGGGATTGGGTGTGGAAGCATTGGAACATCTGAGTCCAGGGGAACAGCTTCG
 GGGAGACTGCATGACCGCTCGCTCCTGGGAGGTCCACCCCGGTCGCTCCCACTCCTTGTGCGCCGCTG
 CCCGAATGCAAAGGTTCTCCCTGGACGAAGGCCAGGCAAAAGCACTGAAGAGACTGCTGAGTATTCTT
 CTTTCAAGGGAGGTTACGCCAAGGATTGGAAGGTGAGAGCTTGGGGTCTTGGCAGCAGTGAAGCAGG
 TAGCTCTGGGACACTTGAGATCCCGTCTCTGTCTGTATAAATCTGGAGCACTAGACGAGGCAGCA
 GCATACCAGAATCGGACTACTACAATTTCCGCTGGCTGTCCGGGCCCGCACCCCCGCCCTCA
 CCCATCCACACGCCCGTATCAAGCTGGAGAACCATTGGACTACGGCAGCGCTGGGCTGGCGGCGC
 GCAATGCCGCTATGGGGACTTGGGTAGTCTACATGGAGGGAGTGTAGCCGGGCCAGCACTGGATCGCCC
 CCAGCCACCACCTCTTCTTCTGGCATACTCTTTCACAGCTGAAGAAGGCCAATTATATGGGCCAGGAG
 GCGGGGGCGCAGCAGCAGCCAAAGCGATGCCGGGCTGTAGCCCCATGGCTACACTCGGCCCCCTCA
 GGGGCTGACAAGCCAGGAGAGTGACTACTCTGCCTCCGAAGTGTGGTATCCTGGTGGAGTTGTGAACAGA
 GTACCCTATCCCAGTCCCAATTGTGTCAAAGTGAATGGGACCTTGGATGGAGAATACTCCGGACCTT
 ATGGGGACATGCGTTTGGACAGTACCAGGGACCATGTTTTACCCATCGACTATTACTTTCCACCCAGAA
 GACCTGCCTGATCTGTGGAGATGAAGCTTCTGGCTGTCACTACGGAGCTCTCACTTGTGGCAGCTGCAAG
 GTCTTCTTCAAAGAGCCGCTGAAGGAAACAGAAGTATCTATGTCCAGCAGAAACGATTGTACCATTG
 ATAAATTCGGAGGAAAATGGCCATCTTGTCTCTCCGAAATGTTATGAAGCAGGGATGACTCTGGG
 AGCTCGTAAGCTGAAGAACTTGGAAATCTAAACTACAGGAGGAAGGAGAAAATCCAATGCTGGCAGC
 CCCACTGAGGACCATCCAGAAGATGACTGTATCACACATTGAAGGCTATGAATGTCAGCCTATCTTTC
 TTAACGTCCTGGAAGCCATTGAGCCAGGAGTGGTGTGTGCCGGACATGACAACAACCAACAGATTCCCT
 TGCTGCCTTGTATCTAGCCTCAATGAGCTTGGAGAGAGGCAGCTTGTGCATGTGGTCAAGTGGGCCAAG
 GCCTTGCTGGCTCCGCAACTGCAATGGATGACCAGATGGCGGTCAATCAGTATTCTGGATGGGAC
 TGATGGTATTTGCCATGGGTTGGCGTCTTCACTAATGTCAACTCCAGGATGCTCTACTTTGCACCTGA
 CTTGGTTTTCAATGAGTACCGCATGCACAAGTCTCGGATGTACAGCCAGTGTGTGAGGATGAGGCACCTG
 TCTCAAGAGTTTGGATGGCTCAAATAACCCCCAGGAATTCCTGTGCATGAAAGCACTGCTGCTTCA
 GCATTATTCAGTGGATGGGCTGAAAAATCAAAAATCTTTGATGAACTTGAATGAACTACATCAAGGA
 ACTCGATCGCATATTGCATGAAAAGAAAAGTATCCACATCCTGCTCAAGGCGCTTCTACCAGCTCACC
 AAGCTCCTGGATTCTGTGCAGCCTATTGCAAGAGAGCTGCATCAGTTCACCTTTGACCTGCTAATCAAGT
 CCCATATGGTGGAGCTGGACTTCTGAAATGATGGCAGAGATCATCTGTGCAAGTGCCAAGATCCT
 TTCTGGGAAAGTCAAGCCATCTATTTCCACACAG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226737 representing NM_013476
 Red=Cloning site Green=Tags(s)

MEVQLGLGRVYRPPPSKTYRGAFQNLFQSVREAIQNPGRHPEAANIAPPGACLQQRQETSPRRRRRQQH
 TEDGSPQAHIRGPTGYLALEEEQPSQQQAASEGHPESSCLPEPGAATAPGKGLPQQPAPPDQDSSAAP
 STL SLLGPTFPGLSSCSADIKDILNEAGTMQLLQQQQQQHQQHQQHQQQVEI SEGSSARAREATGA
 PSSSKDSYLGGNSTISDSAKELCKAVSVSMGLGVEALEHLSPEQLRGDCMYASLLGGPPAVRPTPCAPL
 PECKGLPLDEGPKSTEETAEYSSFKGGYAKGLEGESLGCSSSEAGSSGTLEIPSSL SLYKSGALDEAA
 AYQNRDYNYFPLALSGPPHPPPTPHPHARIKLENPLDYGSAAAAAQCRYGDLGSLHGGSVAGPSTGSP
 PATSSSWHTLFTAEEGQLYGPGGGGSSPSDAGPVAPYGYTRPPQGLTSQESDYSASEVWYPPGGVVNR
 VPYPSPNCVKSEMGPMENYSGPYGDMRLDSTRDHVLPIDYFPQKTCLEICGDEASGCHYGALTCGSK
 VFFKRAAEGKQKYL CASRNDCTIDKFRKNCPSRLRKC YEAGMTLGARKLKKLGNLKLQEEGENSAGS
 PTEDPSQKMTVSHIEGYEQPIFLNVLEAIEPGVVCAGHDNNQPDFSFAALLSSLNELGERQLVHVVKWAK
 ALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLYFAPDLVFNEYRMHKS RMYSQCVMRHL
 SQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDEL RMNYIKELDR I IACKRKNPTSCSRRFYQLT
 KLLDSVQPIARELHQFTFDLLIKSHMVSVDPFEMMAEIIISVQVPKILSGKVKPIYFHTQ

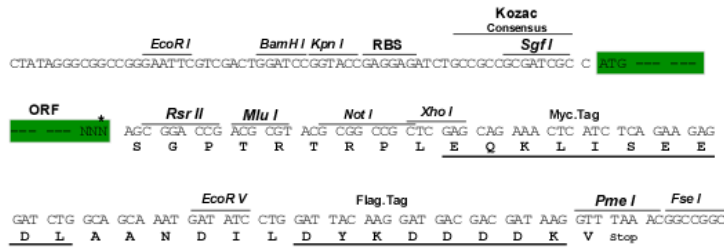
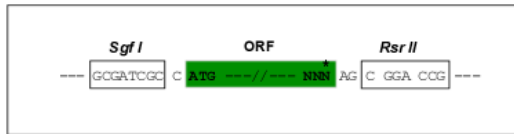
SGP TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1618_e07.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:

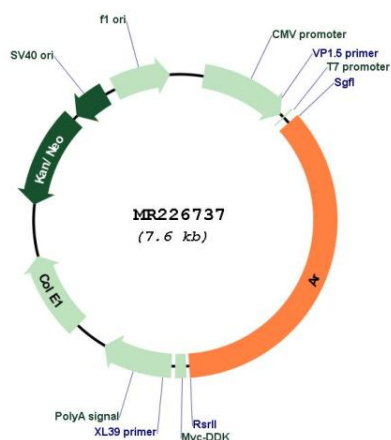


* The last codon before the Stop codon of the ORF

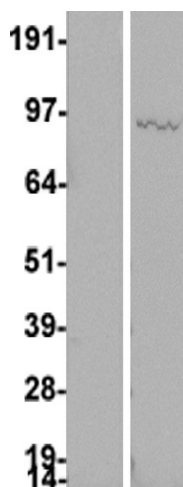
ACCN: NM_013476

ORF Size:	2697 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:	<ol style="list-style-type: none">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_013476.4
RefSeq Size:	2999 bp
RefSeq ORF:	2700 bp
Locus ID:	11835
UniProt ID:	P19091
Cytogenetics:	X 42.82 cM
MW:	98.6 kDa
Gene Summary:	This gene encodes a nuclear hormone receptor containing zinc finger and DNA-binding domains. The encoded protein is a key regulator of signalling by androgens, a class of steroid hormones involved in male reproductive development. The protein responds to hormone signalling by translocating to the nucleus, forming dimers, and binding to androgen response elements (AREs) in the promoters of target genes, which are subsequently transcriptionally activated. Activity of this protein is negatively regulated by nuclear receptor subfamily 0 group B member 1 (Nr0b1, also known as Dax1). Mutations in this gene result in feminized genitals and infertility in male animals. Loss of function in female animals also causes problems in reproductive development and function. [provided by RefSeq, May 2015]

Product images:



Circular map for MR226737



Western blot validation of overexpressed Ar protein using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with MR226737 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).