

## Product datasheet for **MR225487**

### **Foxa1 (NM\_008259) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Foxa1 (NM_008259) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxa1
Synonyms:	Hnf-3a; Hnf3a; Tcf-3a; Tcf3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225487 representing NM\_008259  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTAGGGACTGTGAAGATGGAAGGGCATGAGAGCAACGACTGGAACAGCTACTACGCGGACACGCAGG  
 AGGCCTACTCCTGTCCCTGTGAGCAACATGAACTCCGGCCTGGGCTCTATGAACTCCATGAACACCTA  
 CATGACCATGAACACCATGACCACGAGCGGCAACATGACCCCGGCTTCCTTCAACATGTCCTACGCCAAC  
 ACGGGCTTAGGGGCGGCCTGAGTCCCGGTGCTGTGGCTGGCATGCCAGGGGCTCTGCAGGCGCCATGA  
 ACAGCATGACTGCGGGCGGCGTACGGCCATGGGTACGGCGCTGAGCCCGGAGGCATGGGCTCCATGGG  
 CGCGCAGCCCGCCACCTCCATGAACGGCTGGGTCCCTACGCCCGCCATGAACCCGTGCATGAGTCCC  
 ATGGCGTACGCGCGTCCAACCTGGGCCGAGCCGCGGGGGGGCGGGCGACGCCAAGACATTCAAGC  
 GCAGTACCCTCAGCCAAGCCGCTTACTCCTACATCTCGTTCATCACGATGGCCATCCAGCAGGCGCC  
 CAGCAAGATGCTCAGCTGAGCGAGATCTACCAGTGGATCATGGACCTTCCCCATTACCGCCAGAAC  
 CAGCAGCGCTGGCAGAATCCATCCGCCACTCGCTGTCCTTCAACGATTGTTTCGTCAAGGTGGCAGCAT  
 CCCCAGCAAGCCAGGCAAGGGCTCCTACTGGACGCTGCACCCGACTCCGGCAACATGTTTCGAGAACGG  
 CTGCTACTTGGCGCGCCAAAAGCGCTTCAAGTGTGAGAAGCAGCCGGGGGCGGAGGTGGGAGTGGGGG  
 GGCGGCTCAAAGGGGGCCAGAAAGTCGCAAGGACCCCTCAGGCCCGGGGAACCCAGCGCCGAGTAC  
 CCCTTACCGGGGTGTGCACGAAAGGCTAGCCAGCTAGAGGGCGCGCGGGCCAGGGCCCGCCAG  
 CCCCAGACTCTGGACCACAGCGGGGCCACGGCAGAGGGGGCGTTCCGAGTTGAAGTCTCCAGCGTCT  
 TCATCTGCGCCCCCATAAGCTCCGGGCCAGGGGCGCTAGCATCTGAAAGGGGATCCCCTACTCTTAA  
 TCAACAACTCATGTCTCCTCCGAGCAACAGCACAAGCTGGACTTCAAGGCATACGAGCAGGCGCTG  
 CAGTACTCTCTTATGGCGCTACCTTGCCCGCCAGTCTGCCCTTGGCAGCGCCTCAGTGGCCACGAGGA  
 GCCCATCGAGCCCTCAGCCCTGGAGCCAGCCTACTACCAAGGTGTGATTCCAGACCCGTGCTAAATAC  
 TTCC

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225487 representing NM\_008259  
 Red=Cloning site Green=Tags(s)

MLGTVKMEGHESNDWNSYYADTQEAYSSVPVSNMNSGLGSMNSMNTYMTMNTMTTSGNMTPASFNMSYAN  
 TGLGAGLSPGAVAGMPGASAGAMNSMTAAGVTAMGTALSPGGMGSMGAQPATSMNGLGPYAAAMNPCMSP  
 MAYAYPNLGRSRAGGGGDAKTFKRSYPHAKPPYSYISLITMAIQQAPSKMLTLSEIYQWIMDLFPYYRQN  
 QQRWQNSIRHLSFNDCFVKVARSPPDKPGKGSYWTLPDPSGNMFENGCYLRRQKRFKCEKQPGAGGSGG  
 GSKGGPESRKDPSPGNPSAESPLHRGVHGKASQLEGAPAPGPAASPQTLDHSGATATGGASELKSPAS  
 SSAPPISSGPGLASVPPSHPAHGLAPHESQLHLKGDPHYSFNHPFSINNLMSSEQQHKLDFKAYEQAL  
 QSPYQATLPASLPLGSASVATRSPIEPSALEPAYYQGVYSRPVLNTS

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

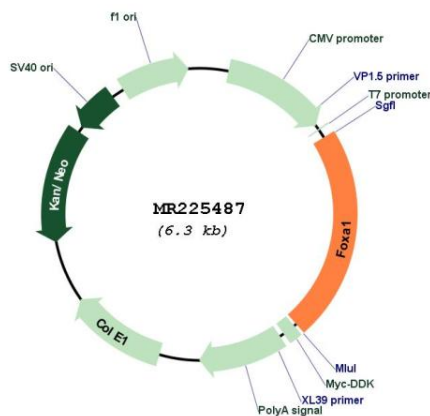


**Cytogenetics:** 12 24.7 cM

**MW:** 49.3 kDa

**Gene Summary:** Transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with the consensus sequence 5'-[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3' (By similarity). Proposed to play a role in translating the epigenetic signatures into cell type-specific enhancer-driven transcriptional programs. Involved in the development of multiple endoderm-derived organ systems such as the liver, pancreas, lungs and prostate; FOXA1 and FOXA2 seem to have at least in part redundant roles. Plays a role in prostate morphogenesis and epithelial cell differentiation. FOXA1 and FOXA2 are essential for hepatic specification. FOXA1 and FOXA2 are required for morphogenesis and cell differentiation during formation of the lung. FOXA1 and FOXA2 are involved in bile duct formation; they positively regulate the binding of glucocorticoid receptor/NR3C1 to the IL6 promoter. FOXA1 and FOXA2 regulate multiple phases of midbrain dopaminergic neuron development; they regulate expression of NEUROG2 at the beginning of mDA neurogenesis and of NR4A2 and EN1 in immature mDA neurons. Modulates the transcriptional activity of nuclear hormone receptors. Is involved in ESR1-mediated transcription. Inhibits NKX2-1-mediated transcription from the SFTPC promoter in lung epithel independently from DNA-binding. Involved in regulation of apoptosis. Involved in cell cycle regulation. Originally described as a transcription activator for a number of liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes. Involved in glucose homeostasis; activates the GCG promoter.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225487