

Product datasheet for MR205369

Foxa3 (NM_008260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxa3 (NM_008260) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxa3
Synonyms:	Hnf-3g; Hnf3g; Tcf-3g; Tcf3g
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205369 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTCAGTGAAGATGGAGGCTCATGACCTGGCCGAGTGGAGCTACTACCCGGAGGCGGGCGAGG
TGTATTCTCCAGTGAATCCTGTGCCACCATGGCCCTCTCAACTCCTACATGACCTTGAACCCACTCAG
CTCTCCCTACCTCCCGGAGGGCTTCAGGCCTCCCCTACAGGACCCCTGGCACCCCCAGCCCC
ACTGCGCCCTTGGGGCCACCTTCCAAGCTTGGGCACCTGGTGGCAGCACCGGAGGCAGTCTTCCGGT
GTGTAGCCCCAGGGCCCGGGCTTGTACATGGAAAAGAGATGGCAAAGGGGTACCGCGGCCACTGGCCCA
CGCAAACCACCATATTCTACATCTCTCATACCATGGCTATTCAGCAGGCTCCAGGCAAGATGCTG
ACCCTGAGTGAATCTACCAATGGATCATGGACCTCTTCCGTAACCGGAGAACAGCAACGTTGGC
AGAACTCCATCCGGCATTCACTGTCTTCAATGACTGCTTCGTAAGGTGGCAGCTCCCCAGACAAGCC
AGGCAAAGGCTCCTACTGGGCCTTGATCCCAGCTCTGGGAACATGTTTGAGAACGGTGTATCTCCGC
CGGCAGAAGCGCTTCAAGCTGGAGGAGAAGGCAAAGAAAGGAAACAGCGCCATATCGCCAGCAGGAATG
GTACTGCGGGTCAAGCCCTCTGCCACCTACAGCTGCCACTGCAGTACCTCCCGGCTCAGCCCCA
GCCTACGCCATCTGAGCCCGAGGCCAGAGTGGGGATGATGTGGGGGTCTGGACTGCGCCTCACCTCT
TCGTCCACACCTTATTTACAGCGCCTGGAGCTCCCGGGGAACTAAAGTTGGATGCGCCCTATAACTTCA
ACCACCTTTCTCTATCAACAACCTGATGTCAGAACAGACATCGACACCTTCCAACCTGGATGTGGGGTT
TGGGGGCTACGGGCTGAGAGTGGGGAGCCTGGAGTCTACTACCAGACCTCTATTCCCGCTCTCTGCT
AATGCATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205369 protein sequence
Red=Cloning site Green=Tags(s)

MLGSVKMEAHDLAEWSYYPEAGEVYSPVNPVPTMAPLNSYMTLNPLSSPYPPGGLQASPLPTGPLAPPAP
 TAPLGPFTPSLGTGGSTGGSASGCVAPGPGLVHGKEMAKGYRRPLAHAKPPYSYISLITMAIQAPGKML
 TLSEIQWIMDLFPYYRENQQRWQNSIRHLSFNDCFVKVARSADKPKGKGSYWALHPSSGNMFENGCYLR
 RQKRFLKLEEKAKKGNLSAISASRNGTAGSATSATTTAATAVAVTSPAQPQPTPSEPEAQSGDDVGGLDACASP
 SPTPYFSGLELPGELKLDAPYFNHPFSINLNMSEQTSTPSKLDVGGYGAESGEPGVVYQSLYSRSL
 NAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008260

ORF Size: 1062 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.

RefSeq: [NM_008260.1](#), [NM_008260.2](#), [NP_032286.1](#)

RefSeq Size: 2039 bp

RefSeq ORF: 1062 bp

Locus ID: 15377

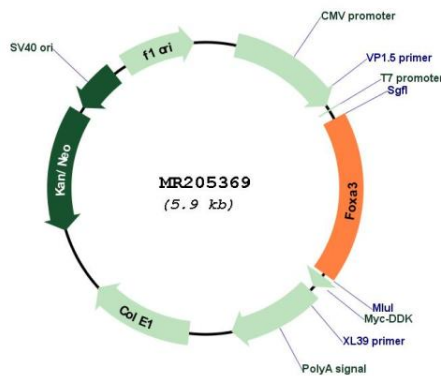
UniProt ID: [P35584](#)

Cytogenetics: 7 9.46 cM

MW: 37.6 kDa

Gene Summary: Transcription factor that 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 (By similarity). 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 GLUT2 transcription. Involved in regulation of neuronal-specific transcription. Involved in regulation of spermatogenesis; required for the maintenance of the testicular germ cell population and male fertility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205369