

Product datasheet for **MG205369**

Foxa3 (NM_008260) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Foxa3 (NM_008260) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Foxa3
Synonyms:	Hnf-3g; Hnf3g; Tcf-3g; Tcf3g
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205369 representing NM_008260 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTCAGTGAAGATGGAGGCTCATGACCTGGCCGAGTGGAGCTACTACCCGGAGGCGGGCGAGG
TGTATTCTCCAGTGAATCCTGTGCCACCATGGCCCTCTCAACTCCTACATGACCTTGAACCCACTCAG
CTCTCCCTACCCTCCCGGAGGGCTTCAGGCCTCCCCTACAGGACCCCTGGCACCCCCAGCCCC
ACTGCGCCCTTGGGGCCACCTTCCAAGCTTGGGCACCTGGTGGCAGCACCGGAGGCAGTCTTCCGGT
GTGTAGCCCAGGGCCCGGGCTTGTACATGGAAAAGAGATGGCAAAGGGGTACCGCGGCCACTGGCCCA
CGCAAACCACCATATTCCTACATCTCTCATACCATGGCTATTCAGCAGGCTCCAGGCAAGATGCTG
ACCCTGAGTGAATCTACCAATGGATCATGGACCTCTTCCCGTACTACCGGGAGAACCAGCAACGTTGGC
AGAACTCCATCCGGCATTCACTGTCTTCAATGACTGCTTCGTAAGGTGGCAGCTCCCCAGACAAGCC
AGGCAAAGGCTCCTACTGGGCCTTGATCCCAGCTCTGGGAACATGTTTGAGAACGGTGTATCTCCGC
CGGAGAAGCGCTTCAAGCTGGAGGAGAAGGCAAAGAAAGGAAACAGCGCCATATCGGCCAGCAGGAATG
GTACTGCGGGTCAAGCCCTCTGCCACCTACAGCTGCCACTGCAGTACCTCCCGGCTCAGCCCCA
GCCTACGCCATCTGAGCCCGAGGCCAGAGTGGGGATGATGTGGGGGTCTGGACTGCGCCTCACCTCT
TCGTCACACCTTATTTACAGCGGCTGGAGCTCCCGGGGAACAAAGTTGGATGCGCCCTATAACTTCA
ACCACCTTTCTCTATCAACAACCTGATGTCAGAACAGACATCGACACCTTCCAACCTGGATGTGGGGTT
TGGGGGCTACGGGCTGAGAGTGGGGAGCCTGGAGTCTACTACCAGACCTCTATTCCCGCTCTCTGCT
AATGCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205369 representing NM_008260
Red=Cloning site Green=Tags(s)

MLGSVKMEAHDLAEWSYYPEAGEVYSPVNPVPTMAPLNSYMTLNPLSSPYPPGGLQASPLPTGPLAPPAP
 TAPLGPTFPSLGTGGSTGGSASGCVAPGPGLVHGKEMAKGYRRPLAHAKPPYSYISLITMAIQQAPGKML
 TLSEIYQWIMDLFPYYRENQQRWQNSIRHLSFNDCFVKVARSPOKPGKGSYWALHPSSGNMFENGCYLR
 RQKRFLKLEEKAKKGNSAISASRNGTAGSATSATTTAATAVTSPAQPQPTPSEPEAQSGDDVGGLDACASP
 SPTPYFSGLELPGELKLDAPYFNHPFSINNLMSQSTSPSKLDVGGVGAESGEPGVYYQSLYSRSL
 NAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008260

ORF Size: 1059 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_008260.2](#), [NP_032286.1](#)

RefSeq Size: 2039 bp

RefSeq ORF: 1062 bp

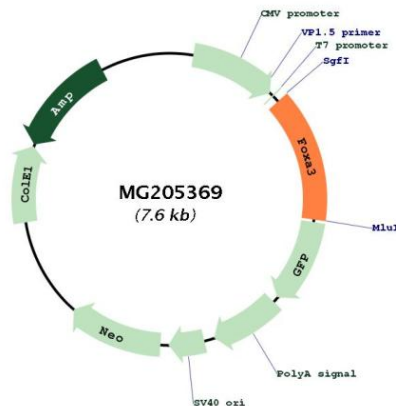
Locus ID: 15377

UniProt ID: [P35584](#)

Cytogenetics: 7 9.46 cM

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 MG205369