

## Product datasheet for **RG206045**

### **FOXA1 (NM\_004496) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FOXA1 (NM_004496) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXA1
Synonyms:	HNF3A; TCF3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206045 representing NM\_004496  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTAGGAAGTGTGAAGATGGAAGGGCATGAAACCAGCGACTGGAACAGCTACTACGCAGACACGCAGG  
 AGGCCTACTCCTCCGTCCCGTACGCAACATGAACTCAGGCCTGGGCTCCATGAACTCCATGAACACCTA  
 CATGACCATGAACACCATGACTACGAGCGGCAACATGACCCCGCGTCTTCAACATGTCCTATGCCAAC  
 CCGGGCTAGGGGCGGCCTGAGTCCCGGCGCAGTAGCCGGCATGCCGGGGGCTCGCGGGGCGCCATGA  
 ACAGCATGACTGCGGCCGGCGTACGGCCATGGGTACGGCGCTGAGCCGAGCGGCATGGGCGCCATGGG  
 TGCAGCAGCGGGCCTCCATGAATGGCTGGGCCCTACGCGGCCGCATGAACCCGTGCATGAGCCCC  
 ATGGCGTACGCGCGTCCAACCTGGGCCGAGCCGCGGGGCGGGCGGCGACGCCAAGACGTTCAAGC  
 GCAGCTACCCGACGCCAAGCCGCCCTACTCGTACATCTCGTTCATCACCATGGCCATCCAGCAGGCGCC  
 CAGCAAGATGCTCAGCTGAGCGAGATCTACCAGTGGATCATGGACCTCTCCCCTATTACCGGCAGAAC  
 CAGCAGCGCTGGCAGAACTCCATCCGCCACTCGCTGTCCTTCAATGACTGCTTCGTAAGGTGGCAGCGT  
 CCCCAGCAAGCCGGGCAAGGGCTCCTACTGGACGCTGCACCCGACTCCGGCAACATGTTCCGAGAACGG  
 CTGCTACTTGGCCGCCAGAAGCGCTTCAAGTGCAGAGAAGCAGCCGGGGGCGGGGCGGGGCGGGGAGC  
 GGAAGCGGGGCGAGCGGCCAAGGGCGGCCCTGAGAGCCGAAGGACCCCTCTGGCGCCTTAACCCCA  
 GCGCCGACTCGCCCTCCATCGGGGTGTGCACGGGAAGACCGGCCAGCTAGAGGGCGCGCCGGCCCCGG  
 GCCCGCCGACGCCCCAGACTCTGGACCACAGTGGGGCGACGGCGACAGGGGGCGCCTCGGAGTTGAAG  
 ACTCCAGCCTCTCAACTGCGCCCCCAATAAGCTCCGGGCCCGGGGCGCTGGCCTCTGTGCCGCCCTCTC  
 ACCCGCCACAGGCTTGGCACCCACGAGTCCCAGCTGCACCTGAAAGGGGACCCCACTACTCCTTCAA  
 CACCCGTTCTCCATCAACAACCTCATGTCTCCTCGGAGCAGCAGCATAAAGTGGACTTCAAGGCATAC  
 GAACAGGCACTGCAATACTCGCCTTACGCTCTACGTTGCCCGCCAGCCTGCCTCTAGGCAGCGCCTCGG  
 TGACCACCAGGAGCCCCATCGAGCCCTAGCCCTGGAGCCGGCGTACTACCAAGGTGTGTATTCCAGACC  
 CGTCTAAACACTTCC

**ACGCGT**ACGCGGGCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206045 representing NM\_004496  
 Red=Cloning site Green=Tags(s)

MLGTVKMEGHETSDWNSYYADTQEAYSSVPVSNMNSGLGSMNSMNTYMTMNTMTTSGNMTPASFNMSYAN  
 PGLGAGLSPGAVAGMPGGSAGAMNSMTAAGVTAMGTALSPSGMGAMGAQQAASMNGLGPYAAAMNPCMSP  
 MAYAPSNLGRSRAGGGDAKTFKRSYPHAKPPYSYISLITMAIQQAPSMLTLSEIYQWIMDLFPYYRQN  
 QQRWQNSIRHLSFNDFVVKVARSPDKPGKGSYWTLPDPSGNMFENGCYLRRQKRFKCEKQPGAGGGGGS  
 GSGGSGAKGGPESRKDPSGASNPADSPLHRGVHGKTGQLEGAPAPGPAASPQTLDHSGATATGGASELK  
 TPASSTAPPISGPGALASVPASHPAHGLAPHESQLHLKGDPHYSFNHPFSINNLMSSEQQHKLDFKAY  
 EQALQYSPYGSTLPASLPLGSASVTTRSPIEPSALEPAYYQGVYSRPVLNTS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_004496

**ORF Size:** 1416 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

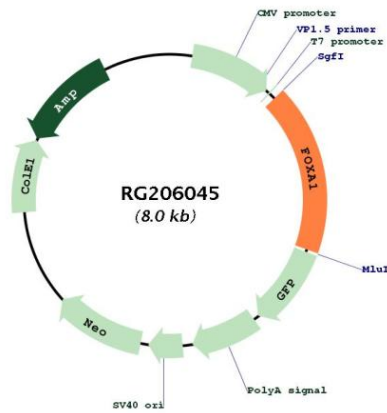
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_004496.5](#)  
**RefSeq Size:** 3124 bp  
**RefSeq ORF:** 1419 bp  
**Locus ID:** 3169  
**UniProt ID:** [P55317](#)  
**Cytogenetics:** 14q21.1  
**Domains:** FH  
**Protein Families:** ES Cell Differentiation/IPS, Transcription Factors  
**Gene Summary:**

This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific transcripts such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG206045