

## Product datasheet for **RG211450**

### **FOXM1 (NM\_202002) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FOXM1 (NM_202002) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXM1
Synonyms:	FKHL16; FOXM1A; FOXM1B; FOXM1C; HFH-11; HFH11; HNF-3; INS-1; MPHOSPH2; MPP-2; MPP2; PIG29; TRIDENT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211450 representing NM\_202002  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAACTAGCCCCGTCGGCCACTGATTCTCAAAGACGGAGGCTGCCCTTCTGTTCAAAATGCC  
 CAAGTGAACATCAGAGGAGGAACCTAAGAGATCCCTGCCAACAGGAGTCTAATCAAGCAGAGGCCTC  
 CAAGGAAGTGGCAGAGTCCAACCTTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCACCCACCATG  
 CCCAACACGCAAGTAGTGGCCATCCCCAACATGCTAATATTCACAGCATCATCACAGCACTGACTGCCA  
 AGGGAAAAGAGAGTGGCAGTAGTGGGCCAACAAATTCATCCTCATCAGCTGTGGGGAGCCCCAACTCA  
 GCCTCCAGGACTCCGGCCTCAAACCCAAACCAGCTATGATGCCAAAAGGACAGAAGTGACCCTGGAGACC  
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 GGGAGACCTGTGCAGATGGTGGGCAGCAGGCTGCACTATCAACAATAGCCTATCCAACATCCAGTGGCT  
 TCGAAAGATGAGTTCTGATGGACTGGGCTCCCGCAGCATCAAGCAAGAGATGGAGAAAAGGAGAATTGT  
 CACCTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCGTCTGGCAGAACTCTGTGT  
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 GACTTTGAAAGACATCTATACGTGGATTGAGGACCACTTTCCCTACTTTAAGCACATTGCCAAGCCAGGC  
 TGAAGAAGTCCATCCGCCACAACCTTTCCCTGCACGACATGTTTGTCCGGGAGACGTCTGCCAATGGCA  
 AGGTCTCCTTCTGGACCATTACCCCAAGTGCACACCGCTACTTGACATTGGACCAGGTGTTAAGCCACT  
 GGACCCAGGGTCTCCACAATTGCCCGAGCACTTGAATCACAGCAGAAAACGACCGAATCCAGAGCTCCGC  
 CGGAACATGACCATCAAACCGAACTCCCTTGGGCGCACGGCGGAAGATGAAGCCACTGCTACCACGGG  
 TCAGTCATACCTGGTACCTATCCAGTTCGCCGTGAACCACTGCTGGTGTTCAGCCCTCGGTGAAGGT  
 GCCATTGCCCTGGCGGCTTCCCTCATGAGCTCAGAGCTTGCCTGCCATAGCAAGCGAGTCCGCATTGCC  
 CCAAGGTTTTTGGGAAACAGGTGGTGTGGTTACATGAGTAAGTTCTTTAGTGCGCATCTGCGAGATT  
 TTGGTACACCCATCACCAGCTTGTAAATTTTATCTTTCTTTGTTTATCAGTGCTGCTAGCTGAGGAGGG  
 GATAGCTCCTCTTTCTTGCAGGACCAGGAAAGAGGAGAACTCCTGTTTGGAGAAGGGTTTTCTCCT  
 TTGCTTCCAGTTCAGACTATCAAGGAGGAAGAAATCCAGCCTGGGGAGGAAATGCCACACTTAGCGAGAC  
 CCATCAAAGTGGAGAGCCCTCCCTTGAAGAGTGGCCCTCCCGGCCCATCTTTCAAAGAGGAATCATC  
 TCACTCCTGGGAGGATTCGTCCTCAATCTCCACCCCAAGACCAAGAAGTCTACAGTGGGCTTAGGTCC  
 CCAACCCGGTGTGTCTCGGAAATGCTTGTGATTCAACACAGGGAGAGGAGGGAGAGCCGGTCTCGGA  
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 CCGCTGGGCCGACAGCTCCCGTTCACAGCAGACTCCTCTGACCCCTGCCTCCAGCTCAGTACTCCAG  
 GAAGTGGGAGGACCTTTAAGACACCCATTAAGGAAACGCTGCCATCTCCTCCACCCCGAGCAAATCTG  
 TCCTCCCGAGAACCCCTGAATCTGGAGGCTCACGCCCCAGCCAAAGTAGGGGGACTGGATTTAGCCCC  
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 CCCTTGCAAAGTGTCTCCCCCTTGAATCACCCGAAAGGCTCCTCAGTTCAGAACCTTAGACCTCATCT  
 CCGTCCCCTTTGGCAACTCTTCTCCCTCAGATATAGACGTCCCCAAGCCAGGCTCCCGGAGCCACAGGT  
 TTCTGGCCTTGCAGCCAATCGTTCTCTGACAGAAGGCCTGGTCTGGACACAATGAATGACAGCCTCAGC  
 AAGATCCTGCTGGACATCAGCTTTCCTGGCCTGGACGAGGACCCACTGGGCCCTGACAACATCAACTGGT  
 CCCAGTTTATTCTGAGCTACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG211450 representing NM\_202002  
 Red=Cloning site Green=Tags(s)

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MKTSPRRPLILKRRRLPLPVQNAPSETSEEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTM
PNTQVVAIPNNANIHSIITALTAKGKESGSSGPNKFILISCGGAPTQPPGLRPQTQTSYDAKRTEVTLET
LGPKPAARDVNLPRPPGALCEQKRETCADGEAAGCTINNSLSNIQWLKRMSSDGLGSRSIKQEMEEKENC
HLEQRQVKVEEPSRPSASWQNSVSRPPYSYMIQFAINSTERKRM TLKDIYTWIEDHFPYFKHIAKPG
WKNSIRHNL SLHDMFVRETSANGKVSFWTIHPSANRYLTLDQVFKPLDPGSPQLPEHLESQQKRPNPELR
RNMTIKTELPLGARRKMKPLLPRVSSYLVP IQFPVNQSLVLQPSVKVPLPLAASLMSELARHSKRVRIA
PKVFGQVVFVGYMSKFFSGDLRDFGTPITSLFNFIFLCLSVLLAEEGIAPLSSAGPGKEEKLLFGEGFSP
LLPVQTIKKEEIQPGEEMPHLARPIKVESPPLEEWSPAPSFKEESSHVEDSSQSPTPRPKKSYSGLRS
PTRCVSEMLVIQHRERRERSRQRKQHL LPPCVDEPELLFSEGPSTRWAAELPFPADSSDPASQLSYSQ
EVGGPFKTPIKETLPISSTPSKSVLPRTPE SWRLTPPAKVGGDLDFSPVQTSQGASDPLPDPLGLMDLSTT
PLQSAPPLESPQRLLSSEPLDLISV PFGNSSPSDIDVPKPGSPEPQVSGLAANRSLTEGLVLDTMNDSLS
KILLDISFPGLDEDPLGPDNINWSQFIPELQ
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**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\\_202002.2](#)

**RefSeq Size:** 3641 bp

**RefSeq ORF:** 2406 bp

**Locus ID:** 2305

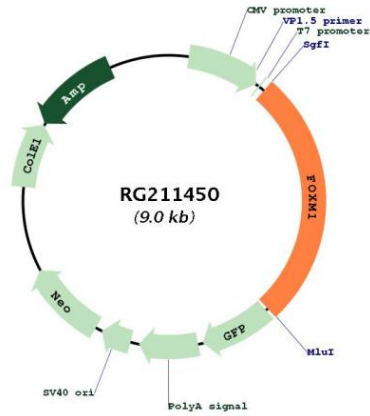
**UniProt ID:** [Q08050](#)

**Cytogenetics:** 12p13.33

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene is a transcriptional activator involved in cell proliferation. The encoded protein is phosphorylated in M phase and regulates the expression of several cell cycle genes, such as cyclin B1 and cyclin D1. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RG211450