

Product datasheet for **RC202246**

FOXM1 (NM_021953) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FOX M1
Synonyms:	FKHL16; FOXM1A; FOXM1B; FOXM1C; HFH-11; HFH11; HNF-3; INS-1; MPHOSPH2; MPP-2; MPP2; PIG29; TRIDENT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC202246 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

 ATGAAAACTAGCCCCGTCGGCCACTGATTCTCAAAGACGGAGGCTGCCCTTCTGTTCAAAATGCC
CAAGTGAACATCAGAGGAGGAACCTAAGAGATCCCCTGCCAACAGGAGTCTAATCAAGCAGAGGCCTC
CAAGGAAGTGGCAGAGTCCAACCTTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCAACCCACCATG
CCCAACACGCAAGTAGTGGCCATCCCAACAATGCTAATATTCACAGCATCATCAGCACTGACTGCCA
AGGGAAAAGAGAGTGGCAGTAGTGGGCCCAACAATTCATCCTCATCAGCTGTGGGGAGCCCCAACTCA
GCCTCCAGGACTCCGGCCTCAAACCCAAACCAGCTATGATGCCAAAAGGACAGAAGTGACCTGGAGACC
TTGGGACCAAAACCTGCAGCTAGGGATGTGAATCTTCTAGACCCTGGAGCCCTTTGCGAGCAGAAAC
GGGAGACCTGTGCAGATGGTGGGACGAGGCTGCACTATCAACAATAGCCTATCCAACATCCAGTGGCT
TCGAAAGATGAGTTCTGATGGACTGGGCTCCCGCAGCATCAAGCAAGAGATGGAGGAAAAGGAGAATTGT
CACCTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCGTCTGGCAGAACTCTGTGT
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GACTTTGAAAGACATCTATACGTGGATTGAGGACCACTTTCCCTACTTTAAGCACATTGCCAAGCCAGGC
TGGAAGAACTCCATCCGCCACAACCTTTCCCTGCACGACATGTTTGTCCGGGAGACGTCTGCCAATGGCA
AGGTCTCCTTCTGGACCATCACCCAGTGCCAACCGCTACTTGACATTGGACCAAGTGTAAAGCCACT
GGACCCAGGGTCTCCACAATTGCCCGAGCACTTGAATCACAGCAGAAACGACCGAATCCAGAGCTCCGC
CGGAACATGACCATCAAAACCGAACTCCCTTGGGCGCACGGCGGAAGATGAAGCCACTGCTACCACGGG
TCAGCTCATACCTGGTACCTATCCAGTTCCTGGTGAACCACTGCTGGTGTGCAGCCCTCGGTGAAGGT
GCCATTGCCCCCTGGCGGCTTCCCTCATGAGCTCAGAGCTTGCCCGCCATAGCAAGCGAGTCCGCATTGGC
CCCAAGGTGCTGTAGCTGAGGAGGGGATAGCTCCTCTTCTTCTGCAGGACAGGGAAGAGGAGAAAC
TCCTGTTTGGAGAAGGTTTTCTCCTTTGCTTCCAGTTTCAAGGAGGAAGAAATCCAGCCTGG
GGAGGAAATGCCACACTTAGCGAGACCCATCAAAGTGGAGAGCCCTCCCTTGAAGAGTGGCCCTCCCCG
GCCCCATCTTTCAAAGAGGAATCATCTCACTCCTGGGAGGATTCGTCCAATCTCCACCCCAAGACCCA
AGAAGTCTACAGTGGGCTTAGGTCCCCAACCCGGTGTGTCTCGGAAATGCTTGTGATTCAACACAGGGA
GAGGAGGGAGAGGAGCCGGTCTCGGAGGAAACAGCATCTACTGCCTCCCTGTGTGGATGAGCCGGAGCTG
CTCTTCTCAGAGGGGCCAGTACTTCCCGCTGGGCCGAGAGCTCCCGTCCCAGCAGACTCCTCTGACC
CTGCCTCCCAGCTCAGCTACTCCAGGAAGTGGGAGGACCTTTTAAGACACCCATTAAGGAAACGCTGCC
CATCTCCTCCACCCGAGCAAACTGTCTCCTCCCAAGAACCCCTGAATCCTGGAGGCTCACGCCCCAGCC
AAAGTAGGGGGACTGGATTTAGCCCCAGTACAAACCTCCCAGGGTGCCTCTGACCCCTTGCTGACCCCC
TGGGGCTGATGGATCTCAGCACCCTCCCTTGCAAAGTGTCCCCCTTGAATCACCGCAAAGGCTCCT
CAGTTCAGAACCTTAGACCTCATCTCCGTCCCTTTGGCAACTCTTCTCCCTCAGATATAGACGTCCCC
AAGCCAGGCTCCCCGAGCCACAGGTTTCTGGCCTTGACGCAATCGTTCTCTGACAGAAGGCTGGTCC
TGGACACAATGAATGACAGCCTCAGCAAGATCTGTGGACATCAGCTTTCCTGGCCTGGACGAGGACCC
ACTGGGCCCTGACAACATCAACTGGTCCAGTTTATTCCTGAGCTACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202246 protein sequence
 Red=Cloning site Green=Tags(s)

MKTSPRRPLILKRRRLPLPVQNAPSETSEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTM
 PNTQVVAIPNNANIHSIITALTAGKESGSSGPNKFILISCGGAPTQPPGLRPQTQTSYDAKRTEVTLET
 LGPKPAARDVNLPRPPGALCEQKRETCADGEAAGCTINNSLSNIQWLKRMSSDGLGSRSIKQEMEEKENC
 HLEQRQVKVEEPSRPSASWQNSVSRPPYSYMIQFAINSTERKMTLKDITYWIEDHFPYFKHIAKPG
 WKNSIRHNLSLHDMFVRETSANGKVSFWTIHPSANRYLTLDQVFKPLDPGSPQLPEHLESQKRPNPRLR
 RNMTIKTELPLGARRKMKPLLPVSSYLVIQFPVNQSLVLQPSVKVPLPLAASLMSELARHSKRVRIA
 PKVLLAEEGIAPLSSAGPGKEEKLLFGEGFSPLLVPQTIKEEEIQPGEEMPHLARPIKVESPPLEEWSPSP
 APSFKEESSHSEDSSQSPTRPKKSYGLRSPTRCVSEMLVIQHRERRERSRRLKQHLPPCVDPEL
 LFSEGPSTSRWAAELPPADSSDPASQLSYSQEVGGPFKTPIKETLPISTPSKSVLPRTPESWRLTPPA
 KVGGLDFSPVQTSQGASDPLPDPLGLMDLSTTPLQSAPPLESPQRLLSSEPLDLISVPFGNSSPSDIDVP
 KPGSPPEQVSGLAANRSLTEGLVLDTMNDSLKILLDISFGLDEDPLGPDNINWSQFIPELQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6304_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021953

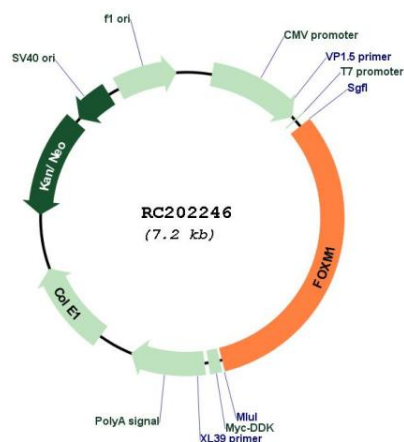
ORF Size: 2289 bp

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](#)

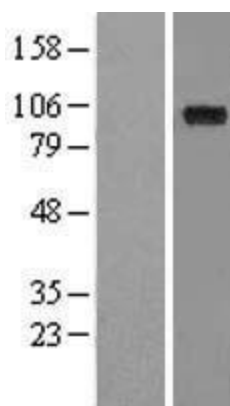
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_021953.3</u>
RefSeq Size:	3551 bp
RefSeq ORF:	2292 bp
Locus ID:	2305
UniProt ID:	<u>Q08050</u>
Cytogenetics:	12p13.33
Domains:	FH
Protein Families:	Transcription Factors
MW:	84.3 kDa
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 RC202246



Western blot validation of overexpression lysate (Cat# [LY411864]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202246 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).