

Product datasheet for **RG233119**

FOXM1 (NM_001243088) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXM1 (NM_001243088) 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:

>RG233119 representing NM_001243088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAC TAGCCCCGTCGGCCACTGATTCTCAAAGACGGAGGCTGCCCTTCTGTTCAAAATGCC
 CAAGTGAACATCAGAGGAGGAACCTAAGAGATCCCCTGCCAACAGGAGTCTAATCAAGCAGAGGCCTC
 CAAGGAAGTGGCAGAGTCCAACCTTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCACCCACCATG
 CCCAACACGCAAGTAGTGGCCATCCCAACAATGCTAATATTCACAGCATCATCACAGCACTGACTGCCA
 AGGGAAAAGAGAGTGGCAGTAGTGGGCCAACAAATTCATCCTCATCAGCTGTGGGGAGCCCCAACTCA
 GCCTCCAGGACTCCGGCCTCAAACCCAAACCAGCTATGATGCCAAAAGGACAGAAGTGACCCTGGAGACC
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 AAAGATGAGTTCTGATGGACTGGCTCCCGCAGCATCAAGCAAGAGATGGAGGAAAAGGAGAATTGTCAC
 CTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCGTCTGGCAGAACCTGTGTCTG
 AGCGGCCACCCTACTCTTACATGGCCATGATACAATTCGCCATCAACAGCACTGAGAGGAAGCGCATGAC
 TTTGAAAGACATCTATACGTGGATTGAGGACCACTTTCCCTACTTTAAGCACATTGCCAAGCCAGGCTGG
 AAGAACTCCATCCGCCACAACCTTTCCCTGCACGACATGTTTGTCCGGGAGACGTCTGCCAATGGCAAGG
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 GAAACGACCGAATCCAGAGCTCCGCCGGAACATGACCATCAAACCGAACTCCCCCTGGGCGCACGGCGG
 AAGATGAAGCCACTGCTACCACGGGTGACTCATACCTGGTACCTATCCAGTTCGGTGAACCAAGTCCAG
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 GCAGGACCAGGGAAGAGGAGAACTCCTGTTGGAGAAGGGTTTTCTCCTTTGCTTCCAGTTCAGACTA
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 TCCCTGTGTGGATGAGCCGGAGCTGCTTCTCAGAGGGGCCAGTACTCCCGCTGGGCCGAGAGCTC
 CGTTCCAGCAGACTCCTCTGACCCTGCCTCCAGCTCAGCTACTCCAGGAAGTGGGAGACCTTTTA
 AGACACCCATTAAGGAAACGCTGCCATCTCCTCCACCCGAGCAAATCTGTCTCCCCAGAACCCCTGA
 ATCCTGGAGGCTCAGCCCCAGCCAAAGTAGGGGACTGGATTTAGCCAGTACAAACCTCCAGGGT
 GCCTCTGACCCCTTGCTGACCCCTGGGGCTGATGGATCTCAGCACCCTCCCTTGCAAAGTGTCCCC
 CCCTTGAATCACCGCAAAGGCTCCTCAGTTCAGAACCTTAGACCTCATCTCCGTCCTTTGGCAACTC
 TTCTCCCTCAGATATAGAGCTCCCAAGCCAGGCTCCCGGAGCCACAGGTTTCTGGCCTTGACGCAAT
 CGTTCTGACAGAAGGCCTGGTCTGGACACAATGAATGACAGCCTCAGCAAGATCCTGCTGGACATCA
 GCTTTCCTGGCCTGGACGAGGACCCACTGGGCCCTGACAACATCAACTGGTCCCAGTTTATCTCTGAGCT
 ACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233119 representing NM_001243088
 Red=Cloning site Green=Tags(s)

MKTSRRRLILKRRRLPLPVQNPSETSEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTM
 PNTQVVAIPNNANIHSIITALTAKGKESGSSGNKFI L I SCGGAPTQPPGLRPQTQTSYDAKRTEVTLET
 LGPKPAARDVNLPRPPGALCEQKRETCDEAAGCTINNSLSNIQWLKMSDGLGSRSIKQEMEEKENCH
 LEQRQVKVEEPSRPSASWQNSVSRPPYSYMIQFAINSTERKRMTLKDIYTWIEDHFPYFKHIAKPGW
 KNSIRHNL SLHDMFVRETSANGKVSFWTIHPSANRYLTL DQVFKQQKRPNP ELRRNMTIKTELPLGARR
 KMKPLLPRVSSYLVIQFPVNQSLVLPVSKVPLPLAASLMSEELARHSKRVR IAPKVL LAEEGIAPLSS
 AGPGKEEKLLFGEGFSPLLPVQTIKEEEIQPGEEMPHLARP I KVESPPLEEWSPAPSFKEESSHWEDS
 SQSPTPRPKSYSGLRSPTRCVSEMLVIQHRERRERSR SRKQHLLPPCVDEPELLFSEGPSTRWAAEL
 PFPADSSDPASQLSYSQEVGGPFKTPIKETLPISSTPSKSVLPRTPE SWRLTPPAKVGGLDFSPVQTSQG
 ASDPLPDLGLMDLSTTPLQSAPPLESPQRLLSSEPLDLISVPFGNSSPSDIDVPKPGSPEPQVSGLAAN
 RSLTEGLVLDTMNDSLKILLDISFPLDEDPLGPDNINWSQFIP ELQ

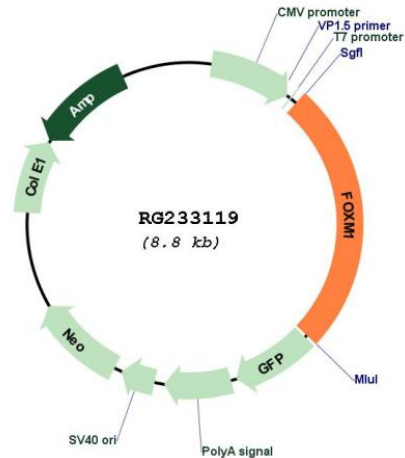
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001243088

ORF Size: 2244 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_001243088.1](#), [NP_001230017.1](#)

RefSeq Size: 3506 bp

RefSeq ORF: 2247 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]