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Product datasheet for RG233117

FOXM1 (NM_001243089) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXM1 (NM_001243089) 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:

>RG233117 representing NM_001243089
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAACTAGCCCCCGTCGGCCACTGATTCTCAAAAGACGGAGGCTGCCCCTTCCTGTTCAAAATGCCC
CAAGTGAAACATCAGAGGAGGAACCTAAGAGATCCCCTGCCCAACAGGAGTCTAATCAAGCAGAGGCCTC
CAAGGAAGTGGCAGAGTCCAACTCTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCACCCCACCATG
CCCAACACGCAAGTAGTGGCCATCCCCAACAATGCTAATATTCACAGCATCATCACAGCACTGACTGCCA
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GCCTCCAGGACTCCGGCCTCAAACCCAAACCAGCTATGATGCCAAAAGGACAGAAGTGACCCTGGAGACC
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GGGAGACCTGTGATGGTGAGGCAGCAGGCTGCACTATCAACAATAGCCTATCCAACATCCAGTGGCTTCG
AAAGATGAGTTCTGATGGACTGGGCTCCCGCAGCATCAAGCAAGAGATGGAGGAAAAGGAGAATTGTCAC
CTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCGTCCTGGCAGAACTCTGTGTCTG
AGCGGCCACCCTACTCTTACATGGCCATGATACAATTCGCCATCAACAGCACTGAGAGGAAGCGCATGAC
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CAATCTCCCACCCCAAGACCCAAGAAGTCCTACAGTGGGCTTAGGTCCCCAACCCGGTGTGTCTCGGAAA
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TCCCTCAGATATAGACGTCCCCAAGCCAGGCTCCCCGGAGCCACAGGTTTCTGGCCTTGCAGCCAATCGT
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TTCCTGGCCTGGACGAGGACCCACTGGGCCCTGACAACATCAACTGGTCCCAGTTTATTCCTGAGCTACA
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

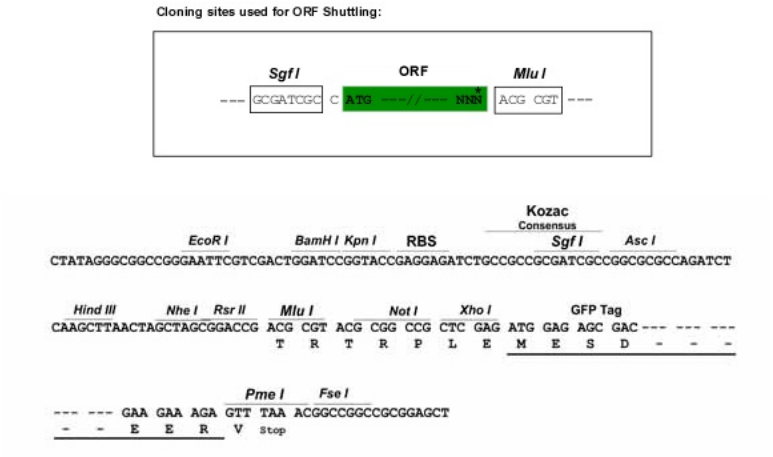
>RG233117 representing NM_001243089
Red=Cloning site Green=Tags(s)

MKTSPRRPLILKRRRLPLPVQNAPSETSEEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTM
PNTQVVAIPNNANIHSIITALTAKGKESGSSGPNKFILISCGGAPTQPPGLRPQTQTSYDAKRTEVTLET
LGPKPAARDVNLPRPPGALCEQKRETCDGEAAGCTINNSLSNIQWLRKMSSDGLGSRSIKQEMEEKENCH
LEQRQVKVEEPSRPSASWQNSVSERPPYSYMAMIQFAINSTERKRMTLKDIYTWIEDHFPYFKHIAKPGW
KNSIRHNLSLHDMFVRETSANGKVSFWTIHPSANRYLTLDQVFKQQKRPNPELRRNMTIKTELPLGARRK
MKPLLPRVSSYLVPIQFPVNQSLVLQPSVKVPLPLAASLMSSELARHSKRVRIAPKVLLAEEGIAPLSSA
GPGKEEKLLFGEGFSPLLPVQTIKEEEIQPGEEMPHLARPIKVESPPLEEWPSPAPSFKEESSHSWEDSS
QSPTPRPKKSYSGLRSPTRCVSEMLVIQHRERRERSRSRRKQHLLPPCVDEPELLFSEGPSTSRWAAELP
FPADSSDPASQLSYSQEVGGPFKTPIKETLPISSTPSKSVLPRTPESWRLTPPAKVGGLDFSPVQTSQGA
SDPLPDPLGLMDLSTTPLQSAPPLESPQRLLSSEPLDLISVPFGNSSPSDIDVPKPGSPEPQVSGLAANR
SLTEGLVLDTMNDSLSKILLDISFPGLDEDPLGPDNINWSQFIPELQ

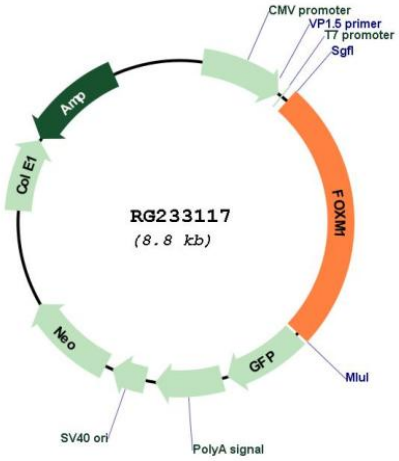
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001243089
ORF Size:	2241 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_001243089.1, NP_001230018.1
RefSeq Size:	3503 bp
RefSeq ORF:	2244 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]