

Product datasheet for **RG223412**

FOXC2 (NM_005251) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXC2 (NM_005251) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXC2
Synonyms:	FKHL14; LD; MFH-1; MFH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223412 representing NM_005251
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGCGCGCTACTCCGTGTCCGACCCCAACGCCTGGGAGTGGTGCCTACCTGAGCGAGCAGAATT
 ACTACCGGGTGCGGGCAGCTACGGCGGCATGGCCAGCCCATGGGCGTCTATTCCGGCCACCCGGAGCA
 GTACAGCGCGGGGATGGGCCGCTCTACGCGCCCTACCACCACCAGCCCGCGGCCTAAGGACCTG
 GTGAAGCCGCCCTACAGCTACATCGCGCTCATCACCATGGCCATCCAGAACGCGCCCGAGAAGAAGATCA
 CCTTGAACGGCATCTACCAGTTCATCATGGACCCTTCCCCTTCTACGGGAGAACAAGCAGGGCTGGCA
 GAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGCTTCGTCAGAGTGCCTCCGCGCAGCACAAGAAGCCC
 GGCAAGGGCAGTTACTGGACCCTGGACCAGGACTCCTACAACATGTTGAGAACGGCAGCTTCTGCGGC
 GCCGGCGCGCTTCAAAAAGAAGGACGTGTCCAAGGAGAAGGAGGAGCGGGCCACCTCAAGGAGCCGCC
 CCCGGCGCGCTCAAGGGCGCCCGGCCACCCCCACCTAGCGGACGCCCAAGGAGGCCGAGAAGAAG
 GTGGTGATCAAGAGCGAGGCGGGCTCCCGGGCGTGCCTGATCACCAGGTGGAGACGCTGAGCCCCG
 AGAGCGCGCTGCAGGGCAGCCCGCGCAGCGCGGCTCCACGCCCGCCGGCTCCCCGACGGCTCGTGCC
 GGAGCACACGCCGCGCGCCCAACGGGCTGCCTGGCTTACGCGTGGAGAACATCATGACCTGCGAACG
 TCGCCCGCGGGGAGAGCTGAGCCCGGGGCGGACGCGCGGGCTGGTGGTCCGCGCGCTGGCGCTGC
 CCTACGCCCGCGCGCCCGCCCGCCTACGGCCAGCGTGCCTCAGGGCTGGAGGCGGGGCGCCGG
 GGGTACCAGTGCAGCATGCGAGCGATGAGCCTGTACCCGGGGCGAGCGGCGCGCACATGTGCGTC
 CCGCCCGCCCTGGACGAGGCCCTCTCGGACCACCGAGCGGCCACGTCGCCCCGAGCGCTCTCAACC
 TCGCCCGCGCCAGGAGGGCGCGCTCGCCGCCACGGGCCACCACCACCAGCACCCAGCCACCACCACC
 GCAGGCGCGCCCGCCCGCGGGCTCCCGAGCCCGAGCGGACGCGCGAGCCCGGGGCGCGCGCGCAG
 GCGGCTCCTGGTATCTCAACCACAGCGGGACCTGAACCACCTCCCGGCCACAGTTCGCGGCCAGC
 AGCAAACCTTCCCAACGTGCGGGAGATGTTCAACTCCCACCGGCTGGGGATTGAGAACTCGACCCTCG
 GGAGTCCAGGTGAGTGGCAATGCCAGCTGCCAGCTGCCCTACAGATCCAGCGCGCTCTATCGCCAC
 GCAGCCCCCTACTCTACGACTGCACGAAATAC

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223412 representing NM_005251
 Red=Cloning site Green=Tags(s)

MQARYSVSDPNALGVVPYLSEQNYRAAGSYGGMASPMGVYSGHPEQYSAGMGRSYAPYHHHQAAPKDL
 VKPPYSYIALITMAIQNAPEKKITLNGIYQFIMDRFPFYRENKQGWQNSIRHNLSLNECFVKVPRDDKKP
 GKGSYWTLPDSYNMFENGSLRRRRRFKKKDVSKKEERAHLKEPPPAASKGAPATPHLADAPKEAEKK
 VVIKSEAASPALPVITKVETLSPEALQSPRSAASTPAGSPDGLPEHHAAAPNGLPGFSVENIMTLRT
 SPPGGELSPGAGRAGLVVPLALPYAAAPPAAYGQPCAQGLEAGAAGGYQCSMRAMSLYGAERPAHMCV
 PPALDEALSDHPSGPTSPLSALNLAAGQEGALAAATGHHHQHHGHHHPQAPPPPPAPQPQTPQPGAAAAQ
 AASWYLNHSGDLNHLPGHTFAAQQTFFPNVREMFNSHRLGIENSTLGESQVSGNASCQLPYRSTPPLYRH
 AAPYSYDCTKY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005251

ORF Size: 1503 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_005251.3](#)

RefSeq Size: 1506 bp

RefSeq ORF: 1506 bp

Locus ID: 2303

UniProt ID: [Q99958](#)

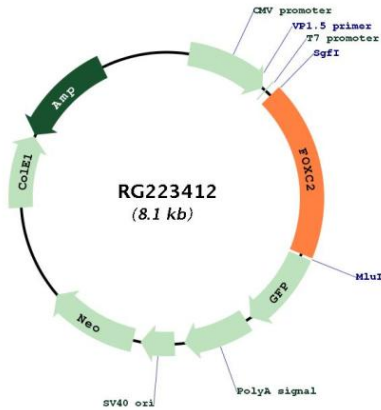
Cytogenetics: 16q24.1

Domains: FH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene belongs to the forkhead family of transcription factors which is characterized by a distinct DNA-binding forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the development of mesenchymal tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223412