

## Product datasheet for **MR221977**

### **Foxc2 (NM\_013519) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Foxc2 (NM_013519) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxc2
Synonyms:	Fkh14; Hfhbf3; MFH-1; Mfh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221977 representing NM\_013519  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGCGGTTACTCGGTATCGGACCCCAACGCCTGGGAGTGGTACCCTATTTGAGTGAGCAAACT  
 ACTACCGGGCGGCCGAGCTACGGCGGCATGGCCAGCCCATGGGCGTCTACTCCGGCCACCCGGAGCA  
 GTACGGCGCCGGCATGGGCCGCTCTACGCGCCCTACCACCACCAGCCCGCGCGCCCAAGGACCTGGTG  
 AAGCCGCCCTACAGCTATATAGCGCTCATCACCATGGCGATCCAGAACGCGCCAGAGAAGAAGATCACTC  
 TGAACGGCATCTACCAGTTCATCATGGACCGTTTCCCCTTCTACCGCGAGAACAAGCAGGGCTGGCAGAA  
 CAGCATCCGCCACAACCTGTCACTCAATGAGTGTTCGTGAAAGTGCCGCGCGACGACAAGAAGCCGGGC  
 AAGGGCAGCTACTGGACGCTCGACCCGGACTCCTACAACATGTTTCGAGAATGGCAGCTTCTCGGGCGGC  
 GCGCGCGCTTCAAGAAGAAGGATGTGCCAAGGACAAGGAGGAGCGGGCCACCTCAAGGAGCCGCCCTC  
 GACCACGGCCAAGGGCGCTCCGACAGGGACCCCGTAGCTGACGGGCCCAAGGAGCCGAGAAGAAAGTC  
 GTGGTTAAGAGCGAGGCGCGTCCCCGCGCTGCCGGTACACCAAGGTGGAGACGCTGAGCCCCGAGG  
 GAGCGCTGCAGGCCAGTCCGCGCAGCGCATCTCCACGCCCGCAGGTTCCCCAGACGGCTCGCTGCCGGA  
 GCACCACGCCGCGGCCCTAACGGGCTGCCCGGCTTACGCGTGGAGACCATCATGACGCTGCGCAGCTCG  
 CCTCCGGGCGGGCATCTGAGCCAGCGCGCGCGCGCCGGCCTGGTGGTGCCACCGCTGGCACTGCCAT  
 ACGCCGACGCGCCACCCGCCGTTACACGACGCGTGCAGCGCAGGGCCTGGAGGCTGCGGGCTCCGCGGG  
 CTACCAGTGCAGTATGCGGGCTATGAGTCTGTACACCGGGGCGAGCGGCCCGCGCACGTGTGCGTTCCG  
 CCCGCGCTGGACGAGGCTCTGTGCGACCACCCGAGCGGCCCGGCTCCCCGCTCGGCGCCCTCAACCTCG  
 CAGCGGGTACAGGAGGCGGTTGGGGCCCTCGGTCACCAACCAGCATCACGGCCACCTCCACCCGCA  
 GCGCCACCGCCCGCCCGCAGCCCTCCCGCGCGCAGCCCGCCACCAAGGCCACCTCTGGTATCTG  
 AACACGCGGGGACCTGAGCCACCTCCCGGCCACACGTTTGAACCAACAGCAAACTTTCCCAACG  
 TCCGGGAGATGTTCAACTCGCACCGCTAGGACTGGACAACCTCGTCCCTCGGGGAGTCCCAGGTGAGCAA  
 TCGGAGCTGTGAGCTGCCCTATCGAGCTACGCCGTCCTCTACCGCCACGCGCCCTACTCTTACGAC  
 TGCACCAATAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR221977 representing NM\_013519  
 Red=Cloning site Green=Tags(s)

MQARYSVSDPNALGVVPYLSEQNYRAAGSYGGMASPMGVVYSGHPEQYAGMGRSYAPYHHQPAAPKDLV  
 KPPYSYIALITMAIQNAPEKKITLNGIYQFIMDRFPFYRENKQWQNSIRHNLNLNECFVKVPRDDKKPG  
 KGSYWTLDPDSYNMFENGSLRRRRRFKDDVDPKDKKEERHLKEPPSTTAKGAPTGPVADGPKEAEKKV  
 VVKSEASPALPVITKVELSPEGALQASPRASSTPAGSPDGSLEPHHAAAPNGLPGFSVETIMTLRTS  
 PPGDLSPAARAGLVVPLALPYAAAPPAAAYTQPCAQGLEAAGSAGYQCSMRAMSLYTGAERPAHVCPV  
 PALDEALSDHPSGPGSPLGALNLAAGQEGALGASGHHQHGHGLHPQAPPAPQPPAPQATQATSWYL  
 NHGGDLSHLPGHTFATQQQTFPNVREMFNSHRLGLDNSSLGESQVSNASCQLPYRATPSLYRHAAPYSYD  
 CTKY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_013519

**ORF Size:** 1482 bp

**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](#)

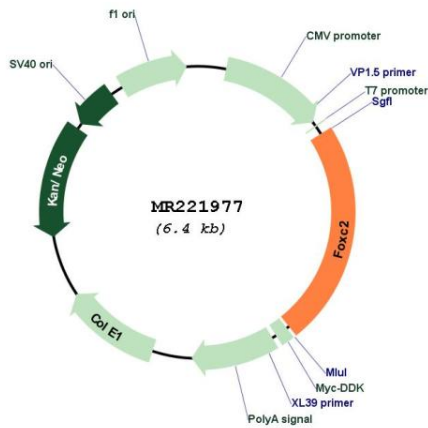
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_013519.2](#), [NP\\_038547.2](#)

RefSeq Size:	2739 bp
RefSeq ORF:	1485 bp
Locus ID:	14234
UniProt ID:	<a href="#">Q61850</a>
Cytogenetics:	8 70.33 cM
MW:	53.3 kDa
Gene Summary:	Transcriptional activator. Might be involved in the formation of special mesenchymal tissues. [UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR221977