

Product datasheet for **MG221977**

Foxc2 (NM_013519) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Foxc2 (NM_013519) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Foxc2 |
| Synonyms: | Fkh14; Hfhbf3; 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:

>MG221977 representing NM_013519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGCGGTTACTCGGTATCGGACCCCAACGCCTGGGAGTGGTACCCTATTTGAGTGAGCAA
 ACTACCGGGCGGCCGAGCTACGGCGGCATGGCCAGCCCATGGGCGTCTACTCCGGCCACCGGAGCA
 GTACGGCGCCGGCATGGGCCGCTCTACGCGCCCTACCACCACCAGCCCGCGGCCCAAGGACCTGGTG
 AAGCCGCCCTACAGCTATATAGCGCTCATCACCATGGCGATCCAGAACGCGCCAGAGAAGAAGATCACTC
 TGAACGGCATCTACCAGTTCATCATGGACCGTTTCCCCTTCTACCGGAGAAACAAGCAGGGCTGGCAGAA
 CAGCATCCGCCACAACCTGTCACTCAATGAGTGTTCGTGAAAGTGCCGCGCGACGACAAGAAGCCGGGC
 AAGGGCAGCTACTGGACGCTCGACCCGGACTCCTACAACATGTTTCGAGAATGGCAGCTTCTCGGGCGGC
 GCGGGCGCTTCAAGAAGAAGGATGTGCCAAGGACAAGGAGGAGCGGGCCACCTCAAGGAGCCGCCCTC
 GACCACGGCCAAGGGCGCTCCGACAGGGACCCCGGTAGCTGACGGGCCCAAGGAGCCGAGAAGAAAGTC
 GTGGTTAAGAGCGAGGCGCGTCCCGCGCTGCCGGTATACCAAGGTGGAGACGCTGAGCCCGGAGG
 GAGCGCTGCAGGCCAGTCCGCGCAGCGCATCTCCACGCCCGCAGGTTCCCCAGACGGCTCGCTGCCGGA
 GCACCACGCCCGGGCGCTAACGGGCTGCCCGGCTTACGCGTGGAGACCATCATGACGCTGCGCAGCTCG
 CCTCCGGGCGGGCATCTGAGCCAGCGCGCGCGCGCCGGCCTGGTGGTGCCACCGCTGGCACTGCCAT
 ACGCCGCAGCGCCACCCGCCGTTACACGCAGCCGTGCGCGCAGGGCCTGGAGGCTGCGGGCTCCGCGGG
 CTACAGTGCAGTATGCGGGCTATGAGTCTGTACACGGGGCCGAGCGGCCCGCGCACGTGTGCGTTCGG
 CCCGCGCTGGACGAGGCTCTGTGCGACCACCCGAGCGGCCCGGCTCCCGCTCGGGCCCTCAACTCG
 CAGCGGGTCAGGAGGGCGGTTGGGGCTCGGGTACCACCACCAGCATCACGGCCACCTCCACCCGCA
 GCGCCACCGCCCGCCCGCAGCCCTCCCGCGCGCAGCCCGCCACCCAGGCCACCTCCTGGTATCTG
 AACACGCGGGGACCTGAGCCACCTCCCGGCCACACGTTTGAACCAACAGCAAACCTTCCCAACG
 TCCGGGAGATGTTCAACTCGCACCGCTAGGACTGGACAACCTCGTCCCTCGGGGAGTCCCAGGTGAGCAA
 TCGGAGCTGTGAGCTGCCCTATCGAGCTACGCCGTCCTCTACCGCCACGCGCCCTACTCTTACGAC
 TGCACCAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221977 representing NM_013519
 Red=Cloning site Green=Tags(s)

MQARYSVSDPNALGVVPYLSEQNYRAAGSYGGMASPMGVVSGHPEQYAGMGRSYAPYHHQPAAPKDLV
 KPPYSYIALITMAIQNAPEKKITLNGIYQFIMDRFPFYRENKQGWQNSIRHNLNLNECFVKVPRDDKKPG
 KGSYWTLDPDSYNTMFENGSLRRRRRFFKDDVPKDKKEERHLKEPPSTTAKGAPTGPVADGPKEAEKKV
 VVKSEAASPALPVITKVELSPEGALQASPRASSTPAGSPDGSLPEHHAAAPNGLPGFSVETIMTLRTS
 PPGDLSFAAARAGLVVPLALPYAAAPPAAYTQPCAQGLEAAGSAGYQCSMRMSLYTGAERPAHVCVP
 PALDEALSDHPSGPGSPLGALNLAAGQEGALGASGHHQHGHHLHPQAPPAPQPPAPQATSWYL
 NHGGDLSHLPGHFTATQQQTFPNVREMFNSHRLGLDNSSLGESQVSNASCQLPYRATPSLYRHAAPYSYD
 CTKY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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 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.

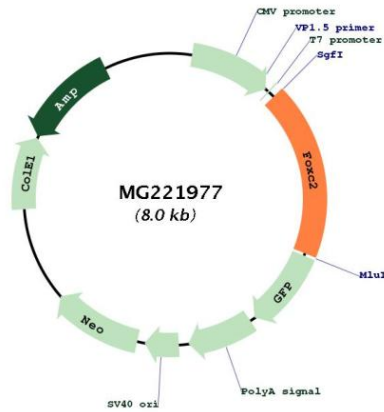
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: [Q61850](#)
 Cytogenetics: 8 70.33 cM
 Gene Summary: Transcriptional activator. Might be involved in the formation of special mesenchymal tissues. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221977