

Product datasheet for **SC303022**

FOXC1 (NM_001453) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: FOXC1 (NM_001453) Human Untagged Clone
Tag: Tag Free
Symbol: FOXC1
Synonyms: ARA; ASGD3; FKHL7; FREAC-3; FREAC3; IGDA; IHG1; IRID1; RIEG3
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001453 edited
GCCCTTGGCCATGCAGGCGCGCTACTCCGTGTCCAGCCCCAACTCCCTGGGAGTGGTGCC
CTACCTCGGCGGGGAGCAGAGCTACTACCGCGCGGCGGCCGCGGGCGGGGGCGGCTA
CACCGCCATGCCGGCCCCATGAGCGTGTACTCGCACCCCTGCGCACGCCGAGCAGTACCC
GGGCGGCATGGCCCGCGCCTACGGGCCCTACACGCCGACGCCGACGCCAAGGACATGGT
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CAACAAGCAGGGCTGGCAGAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGTTCGT
CAAGGTGCCGCGGACGACAAGAAGCCGGGCAAGGGCAGCTACTGGACGCTGGACCCGGA
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CAGCAGCAGCTCGTCCTCTGAGTCACGGCGCGGGCGGGCGGGGGGAGGCCA
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GGCGGGCGGAGACTGGGCCACTTGGCGAGCGCGGGCGGGCGGGCGGGCGCGCAGGCTA
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CTTGAACAACCTCTCCAGTGAACGGGAATAGTAGCTGTCAAATGGCCTTCCCTTCCAGCCA
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CAGAAAGTGTCCCAAAACCTGACGTTAAATTGCCTGAAACTTTAAATTGTGCTTTTTTT
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CTAGAGGCAACACTTAAGCAGTAATTGCTGTTGCTTGTGTCAAAATTTGATCATTGTTA
AAGGATTGCTGCAATAAATACACTTTAATTTTCAGTCAAAAAAAAAAAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001453
- Insert Size:** 3500 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001453.1](#), [NP_001444.1](#)

RefSeq Size: 1662 bp

RefSeq ORF: 1662 bp

Locus ID: 2296

UniProt ID: [Q12948](#)

Cytogenetics: 6p25.3

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 has been shown to play a role in the regulation of embryonic and ocular development. Mutations in this gene cause various glaucoma phenotypes including primary congenital glaucoma, autosomal dominant iridogoniodysgenesis anomaly, and Axenfeld-Rieger anomaly. [provided by RefSeq, Jul 2008]