

Product datasheet for **RG215629**

FOXC1 (NM_001453) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXC1 (NM_001453) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXC1
Synonyms:	ARA; ASGD3; FKHL7; FREAC-3; FREAC3; IGDA; IHG1; IRID1; RIEG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215629 representing NM_001453
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGGCGCGCTACTCCGTGTCCAGCCCCAACTCCCTGGGAGTGGTGCCTACCTCGGCGCGAGCAGA
 GCTACTACCGCGCGGCCGCGCGGGCGGCTACACCGCCATGCCGGCCCCATGAGCGTGTA
 CTCGCACCTGCGCACGCCGAGCAGTACCCGGCGGCATGGCCCGCCTACGGGCCCTACAGCCGAG
 CCGCAGCCCAAGGACATGGTGAAGCCGCCCTATAGCTACATCGCGCTCATCACCATGGCCATCCAGAACG
 CCCCAGACAAGAAGATCACCTGAACGGCATCTACCAGTTCATCATGGACCGTCCCTTCTACCGGGA
 CAACAAGCAGGGTGGCAGAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGTTCGTCGAGGTGCCG
 CGCGACGACAAGAAGCCGGGCAAGGGCAGCTACTGGACGCTGGACCCGGACTCCTACAACATGTTGAGA
 ACGGCAGCTTCTGCGGGCGCGCGCTTCAAGAAGAAGGACCGGTGAAGGACAAGGAGGAGAAGGA
 CAGGCTGCACCTCAAGGAGCCGCCCGCCGCGCCAGCCCCGCGCCGCGCGCGGAGCAGGCCGAC
 GGCAACGCGCCCGTCCGCAGCCGCCCGCTGCGCATCCAGGACATCAAGACCGAGAACGGTACGTGCC
 CCTCGCCGCCAGCCCTGTCCCGCGCCGCGCCCTGGGAGCGGCAGCGCCGCGCGGTGCCAAGAT
 CGAGAGCCCCGACAGCAGCAGCAGCAGCTGTCCAGCGGGAGCAGCCCCCGGGCAGCCTGCCGTCGGCG
 CGGCCGCTCAGCCTGGACGGTGCAGATTCCGCGCCGCGCGCCCGCCGCGCCCTCCGCCCGCGCGCACC
 ATAGCCAGGGTTCAGCGTGGACAACATCATGACGTCGCTGCGGGGTGCGCCGAGAGCGCGCGCGGA
 GCTCAGCTCCGGCCTTCTGGCTCGCGGCCGCGCTCTCGCGCGGGGATCGCACCCCGCTGGCGCTC
 GCGCCTACTCGCCGGCCAGAGCTCCTCTACAGTCCCCCTGCAGCCAGACCTCCAGCGGGCAGCT
 CGGGCGCGCGCGCGCGCGCGGGGGCGCGGGGGCGCGGGGACCTACCACTGCCAACCCT
 GCAAGCCATGAGCCTGTACGCGGCCGCGCGAGCGCGGGGGCCACTTGCAGGGCGCGCCCGGGGCGCGGGC
 GGCTCGGCCGTGGACGACCCCTGCCGACTACTCTGCTCCGGTACCAGCAGCAGCTCGTCTGCC
 TGAGTACGCGCGCGCGCGCGCGGGGAGGCCAGGAGCGCGCCACCACCCTGCGGCCACCA
 AGGCCGCTCACCTCGTGTACCTGAACCAGCGGGGAGACCTGGGCCACTTGGCGAGCGCGCGCGG
 GCGGGCGCGCGCGAGGCTACCCGGCCAGCAGCAGAATTCCACTCGGTGCGGGAGATGTTGAGTAC
 AGAGGATCGGCTGAACAACTCTCCAGTGAACGGGAATAGTAGCTGCAAATGGCCTTCCCTCCAGCCA
 GTCTGTACCGACGTCGGAGCTTTCGTCTACGACTGTAGCAAGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215629 representing NM_001453
 Red=Cloning site Green=Tags(s)

MQARYSVSSPNSLGVVPYLGGESYRAAAAAAGGGYTAMPAPMSVYSHPAHAEQYPGGMARAYGPYTPQ
 PQPKDMVKPPYSYIALITMAIQNAPDKKITLNGIYQFIMDRFPFYRDNKQGWQNSIRHNLSLNECFVKVP
 RDDKPKGKSYWTLDPDSYNMFENGSLRFRFRFRRKDAVKDKKEDRLHLKEPPPPGRQPPAPPEQAD
 GNAPGPQPPPVRIQDIKTENGTCPSPQPPLSPAAALGSGSAAAVPKIESPDSSSSSLSSGSSPPGSLPSA
 RPLSLDGADSAPPPAPSAAPPHPHSQFVSDNIMTSLRGSQSAAEELSSGLLASAAASSRAGIAPPLAL
 GAYSPGQSSLYSSPCSQTSSAGSSGGGGGAGAAGGAGGAGTYHCNLQAMSLYAAGERGGHLQGAPGGAG
 GSAVDDPLPDYSLPPVTSSSSSSLSHGGGGGGGGQEAQHHPAAHQRLTSWYLNQAGGDLGHLASAAA
 AAAAAGYPGQQQNFHVSREMFESQRIGLNNSPVNGNSSCQMAFPSSQSLYRTSGAFVYDCSKF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001453

ORF Size: 1659 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_001453.3](#)

RefSeq Size: 3452 bp

RefSeq ORF: 1662 bp

Locus ID: 2296

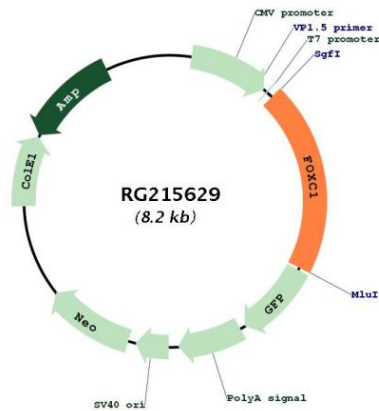
UniProt ID: [Q12948](#)

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]

Product images:



Circular map for RG215629