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Product datasheet for RC215629

FOXC1 (NM_001453) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXC1 (NM_001453) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXC1
Synonyms:	ARA; ASGD3; FKHL7; FREAC-3; FREAC3; IGDA; IHG1; IRID1; RIEG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC215629 representing NM_001453
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGCGCGCTACTCCGTGTCCAGCCCCAACTCCCTGGGAGTGGTGCCCTACCTCGGCGGCGAGCAGA
GCTACTACCGCGCGGCGGCCGCGGCGGCCGGGGGCGGCTACACCGCCATGCCGGCCCCCATGAGCGTGTA
CTCGCACCCTGCGCACGCCGAGCAGTACCCGGGCGGCATGGCCCGCGCCTACGGGCCCTACACGCCGCAG
CCGCAGCCCAAGGACATGGTGAAGCCGCCCTATAGCTACATCGCGCTCATCACCATGGCCATCCAGAACG
CCCCGGACAAGAAGATCACCCTGAACGGCATCTACCAGTTCATCATGGACCGCTTCCCCTTCTACCGGGA
CAACAAGCAGGGCTGGCAGAACAGCATCCGCCACAACCTCTCGCTCAACGAGTGCTTCGTCAAGGTGCCG
CGCGACGACAAGAAGCCGGGCAAGGGCAGCTACTGGACGCTGGACCCGGACTCCTACAACATGTTCGAGA
ACGGCAGCTTCCTGCGGCGGCGGCGGCGCTTCAAGAAGAAGGACGCGGTGAAGGACAAGGAGGAGAAGGA
CAGGCTGCACCTCAAGGAGCCGCCCCCGCCCGGCCGCCAGCCCCCGCCCGCGCCGCCGGAGCAGGCCGAC
GGCAACGCGCCCGGTCCGCAGCCGCCGCCCGTGCGCATCCAGGACATCAAGACCGAGAACGGTACGTGCC
CCTCGCCGCCCCAGCCCCTGTCCCCGGCCGCCGCCCTGGGCAGCGGCAGCGCCGCCGCGGTGCCCAAGAT
CGAGAGCCCCGACAGCAGCAGCAGCCTGTCCAGCGGGAGCAGCCCCCCGGGCAGCCTGCCGTCGGCG
CGGCCGCTCAGCCTGGACGGTGCGGATTCCGCGCCGCCGCCCGCGCCCTCCGCCCCGCCGCCGCACC
ATAGCCAGGGCTTCAGCGTGGACAACATCATGACGTCGCTGCGGGGGTCGCCGCAGAGCGCGGCCGCGGA
GCTCAGCTCCGGCCTTCTGGCCTCGGCGGCCGCGTCCTCGCGCGCGGGGATCGCACCCCCGCTGGCGCTC
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CGGGCGGCGGCGGCGGCGGCGCGGGGGCCGCGGGGGGCGCGGGCGGCGCCGGGACCTACCACTGCAACCT
GCAAGCCATGAGCCTGTACGCGGCCGGCGAGCGCGGGGGCCACTTGCAGGGCGCGCCCGGGGGCGCGGGC
GGCTCGGCCGTGGACGACCCCCTGCCCGACTACTCTCTGCCTCCGGTCACCAGCAGCAGCTCGTCGTCCC
TGAGTCACGGCGGCGGCGGCGGCGGCGGCGGGGGAGGCCAGGAGGCCGGCCACCACCCTGCGGCCCACCA
AGGCCGCCTCACCTCGTGGTACCTGAACCAGGCGGGCGGAGACCTGGGCCACTTGGCGAGCGCGGCGGCG
GCGGCGGCGGCCGCAGGCTACCCGGGCCAGCAGCAGAACTTCCACTCGGTGCGGGAGATGTTCGAGTCAC
AGAGGATCGGCTTGAACAACTCTCCAGTGAACGGGAATAGTAGCTGTCAAATGGCCTTCCCTTCCAGCCA
GTCTCTGTACCGCACGTCCGGAGCTTTCGTCTACGACTGTAGCAAGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215629 representing NM_001453
Red=Cloning site Green=Tags(s)

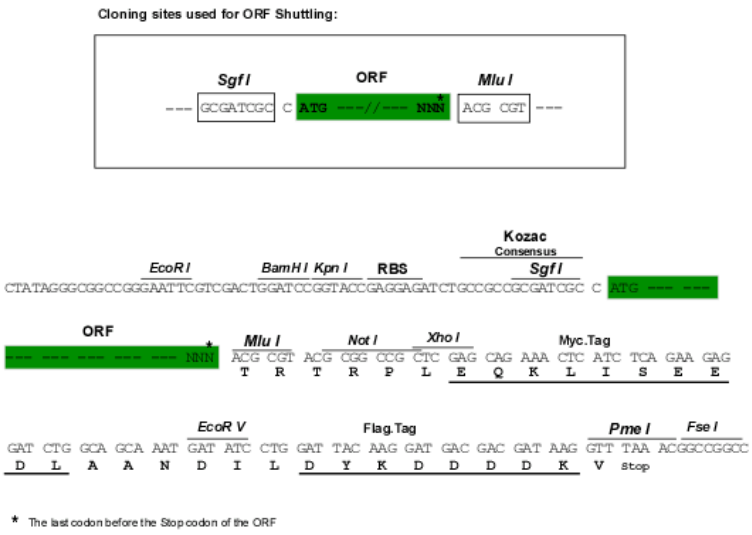
MQARYSVSSPNSLGVVPYLGGEQSYYRAAAAAAGGGYTAMPAPMSVYSHPAHAEQYPGGMARAYGPYTPQ
PQPKDMVKPPYSYIALITMAIQNAPDKKITLNGIYQFIMDRFPFYRDNKQGWQNSIRHNLSLNECFVKVP
RDDKKPGKGSYWTLDPDSYNMFENGSFLRRRRRFKKKDAVKDKEEKDRLHLKEPPPPGRQPPPAPPEQAD
GNAPGPQPPPVRIQDIKTENGTCPSPPQPLSPAAALGSGSAAAVPKIESPDSSSSSLSSGSSPPGSLPSA
RPLSLDGADSAPPPPAPSAPPPHHSQGFSVDNIMTSLRGSPQSAAAELSSGLLASAAASSRAGIAPPLAL
GAYSPGQSSLYSSPCSQTSSAGSSGGGGGGAGAAGGAGGAGTYHCNLQAMSLYAAGERGGHLQGAPGGAG
GSAVDDPLPDYSLPPVTSSSSSSLSHGGGGGGGGGGQEAGHHPAAHQGRLTSWYLNQAGGDLGHLASAAA
AAAAAGYPGQQQNFHSVREMFESQRIGLNNSPVNGNSSCQMAFPSSQSLYRTSGAFVYDCSKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2637_a02.zip

Restriction Sites: SgfI-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.

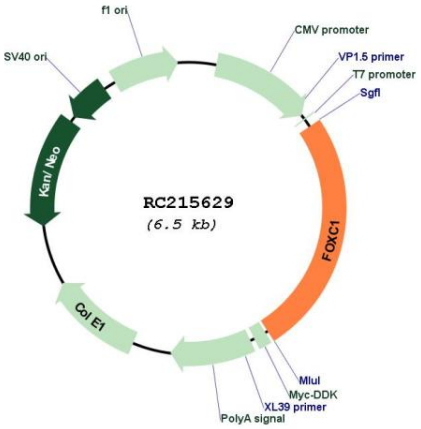
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

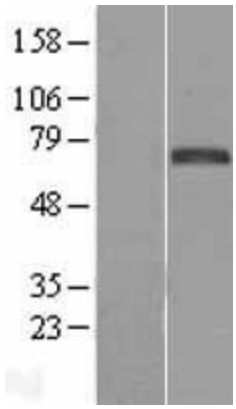
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	56.6 kDa
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 RC215629



Western blot validation of overexpression lysate (Cat# [LY400565]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215629 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).