

Product datasheet for **RG220504**

FOXD1 (NM_004472) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | FOXD1 (NM_004472) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | FOXD1 |
| Synonyms: | FKHL8; FREAC-4; FREAC4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

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>RG220504 representing NM_004472
Red=Cloning site Blue=ORF Green=Tags(s)
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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCTTGAGCACTGAGATGTCCGATGCCTCTGGCCTCGCCGAGGAACACAGACATCGACGTGGTGGGG
AGGGCGAGGACGAAGAAGACGAGGAAGAGGAGGACGACGACGAGGGCGCGGTGGCGGGCCCCGGCTGGC
TGTCCCCGCGCAGCGGCGGCGGCGGCGCTCGTACGCCGGGAGGACGAGCTGGAGGATCTGGAGGAG
GAGGAGGACGACGATGACATCCTGCTGGCCCCGCTGCTGGGGGCTCCCGGCGCCCCCGGGCCCGGCC
CGGCGGCGGGGGCAGGAGCGGTGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCGCGGGTAG
CGGCGCAAGAACCCTGCTGGAAGCCGCCCTACTCGTATATCGCGCTCATCACTATGGCCATCCTGCAG
AGCCCCAAGAAGCGGCTGACGCTGAGCGAGATCTGTGAGTTTCATCAGCGGCCGCTTCCCCCTACTACCGG
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AACGCGAGCTTCTGCGCCGGAGGAAGCGCTTCAAGCGCGAGCCGCTGCTCCACCCAACGCCGCGGCCG
CCGAGTCTCTGCTGCTGCGCGGCGCGGAGCCGAGGGGCGCGGGCGACCCGGCAGCGCGCCGCCGCGCT
CTTCCCGCCCGCGCCCCCGCGCCCCCGCATGCCTACGGCTACGGCCCCCTACGGCTGCGGCTACGGCTG
CAGCTGCCGCCTTACGCGCGCCCTCGGCCCTTTCGCCGCGCAGCGGCCGCCGCCGCCGCCGCCCT
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GGCCCCGGGCGCTCAGCGCTGGCGCGCTCGCCCTTCTCCATCGAGAGCATCATCGGGGCGAGCTTGGGCC
CGGCCGCCGCTGCCGCCGCCGCCGCGAGGCCGCCGCCGCCGCTCAGGCCTCGCCCTCGCCCTCGCCGT
GGCGGCGCGCCAGTCCCGATCCAGCGGAGAGGCTGCGCGCGCAGGCGCCGTGGGCCCGCGGCCG
CGCTCACCCGATCCCTCTGGTGGCGGCCGCGGCCGCCGCTCTCAGTCTCTGTCGCCCGCCTTG
GGACTCTGCACCAAGGACTGCCTGTCCAGTGTCCGAGAACTTACTGCTAGGATTTCGAATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

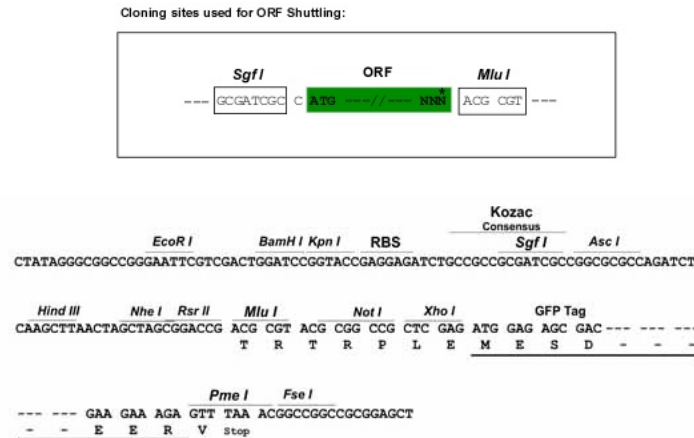
>RG220504 representing NM_004472
Red=Cloning site Green=Tags(s)

MTLSTEMSDASGLAEETDIDVVGEGEDEEEDDEDDDEGGGGGPRLAVPAQRRRRRRSYAGEDELEDLEE
EEDDDILLAPPAGGSPAPGPAPAAGAGAGGGGGGGAGGGGSAGSGAKNPLVKPPYSYIALITMAILQ
SPKKRLTLSEICEFISGRFPYYREKFPAWQNSIRHNSLNDCFVKIPREPNGPGKNYWTLDPESADMFD
NGSFLRRRKRFKRQPLLPNAAAAESLLRGAGAAGGAGDPAAAAAFPAPPPPPHAYGYGYPYGCYGL
QLPPYAPPSALFAAAAAAAAAAAPHSPPPPPPHGAAELARTAFGYRPHPLGAALPGPLPASAAGAG
GPGASALARSPFSIESIIGSLGPAAAAAAAAAQAAAAQASPSPSVAAPPAGSSGGGCAAQAVGPAA
ALTRSLVAAAAAAAASSVSSAALGTLHOGTALSSVENFTARISNC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004472

ORF Size: 1395 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_004472.3](#)

RefSeq Size: 2272 bp

RefSeq ORF: 1398 bp

Locus ID: 2297

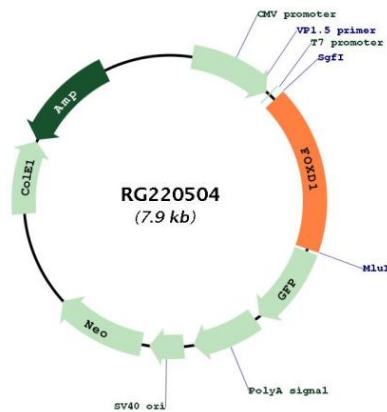
UniProt ID: [Q16676](#)

Cytogenetics: 5q13.2

Protein Families: Transcription Factors

Gene Summary: This gene belongs to the forkhead family of transcription factors which are characterized by a distinct forkhead domain. Studies of the orthologous mouse protein indicate that it functions in kidney development by promoting nephron progenitor differentiation, and it also functions in the development of the retina and optic chiasm. It may also regulate inflammatory reactions and prevent autoimmunity. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG220504