

## Product datasheet for **RC212020**

### **FOXF2 (NM\_001452) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FOXF2 (NM_001452) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXF2
Synonyms:	FKHL6; FREAC-2; FREAC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212020 representing NM\_001452  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCACCGAGGGCGGGCCGCCGCCGCCCGCTCCGCCGCGGTGCAGCCCGGTCCCGGCGCGCTCC  
 AGGCCGCCTGATGAGCCGCGCCCGCCGCCGCCGCCGCCGCCGCCGCCCGGAGACCACCTCCTC  
 CTCTCGTCGTCGTCCTCCGCTCCTGCGCTCGTCTCGTCTCTCCAATTCGGCCAGCGCCCTCG  
 GCTGCCTGCAAGAGCGGGGCGGGCGGGCGGGGAGCGGGGCGCCAAGAAGCGAGCTCGG  
 GGCTGCGGCGGCCGAGAAGCGCCCTACTCGTACATCGCGCTCATCGTCATGGCCATCCAGAGCTCGC  
 CAGCAAGCGCTGACGCTCAGCGAGATCTACCAGTTCTCGAGCGCGCTTCCCTTCTCCGCGGCGCC  
 TACCAGGGCTGGAAGAACTCGGTGCGCCACAATCTCTCGTCAACGAGTGCTTCAAGCTGCCTAAGG  
 GCCTCGGGCGGCCGGAAGGGCCACTACTGGACCATCGACCCGCCAGCGAGTTCATGTTCCGAGGAGGG  
 CTGTTCCGCGCGGCCGCGCGGCTTCCAGCGGAAGTCCAGGGCGCTCAAGCCATGTACCACCGCGTG  
 GTGAGCGGCTTGGGCTTTCGGGGCGTCTGCTGCTGCCCCAGGGCTTCGACTTCCAGGCGCCCGCTCGGCGC  
 CGCTCGGCTGCCACAGCCAGGGCGGCTACGGCGGCTCGACATGATGCCCGGGGCTACGACGCCGGCGC  
 GGGCGCCCCAGCCACGCGCACCCCTACCACCACCACCACCACGTCGCCACATGTCGCCAACCCG  
 GGTTCACCTACATGGCCAGTGCCTGGTCCCGCGGGACCCGGGGGCGTGGTGGCGCCGGGGGCGGGC  
 GCGGGCGGACTACGGGCGGACAGCAGCAGCAGCCCGGTACCCTCGTCCCGGCCATGGCGAGCGCCAT  
 CGAATGCCACTCGCCCTACAGAGCCCTGCGGCGCACTGGAGCTCGCTGGCGCCTCGCCTTACCTCAAG  
 CAGCCGCTGCCCTGACGCCAGCAGCAACCCCGCCCTCGGCAGGCTGCACTCCAGCATGTCTCTCT  
 ACTCGCTGGAGCAGAGCTACTTGCACCAGAACGCTCGCGAGGACTCTCAGTGGGATGCCCGTTACCA  
 GCATCACTCTACTCCAGTGTGTGACAGAAAAGATTTCTGCTCAACTTCAATGGGATTTCTTCTTCCAT  
 CCCTCAGCTAGCGGGTCTATTATCACCATCACCACCAGAGCGTCTGTCAGGATATTAAGCCCTGCGTCA  
 TG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC212020 representing NM\_001452  
 Red=Cloning site Green=Tags(s)

MTTEGGPPPAPLRRACSPVPGALQAALMSPPPAAPETSSSSSSSSASCSSSSSSNSASAPS  
 AACKSAGGGGAGAGSGGAKKASSGLRRPEKPPYSYIALIVMAIQSSPSKRLTLSEIYQFLQARFPFFRGA  
 YQGWKNSVRHNLNLNECFIKLPKGLGRPGKGHYWTIDPASEFMFEESFRRRRPRGFRKQALKPMYHRV  
 VSGLGFGASLLPQGFDFQAPPSAPLGCHSQGGYGLDMMPAGYDAGAGAPSHAHPHHHHHHHVPHMSPNP  
 GSTYMASCVPVAGPGVGAAAGGGGGDYGPSSSSPVPSSPAMASAIIECHSPYTPAAHWSPPGASPYLK  
 QPPALTPSSNPAASAGLHSSMSYSLEQSYLHQNAREDLVGLPRYQHHSTPVCDRDKDFVLFNFGISSFH  
 PSASGSYYHHHHQSVQCQDIKPCVM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2295\\_e06.zip](https://cdn.origene.com/chromatograms/ja2295_e06.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001452

**ORF Size:** 1332 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](mailto: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.

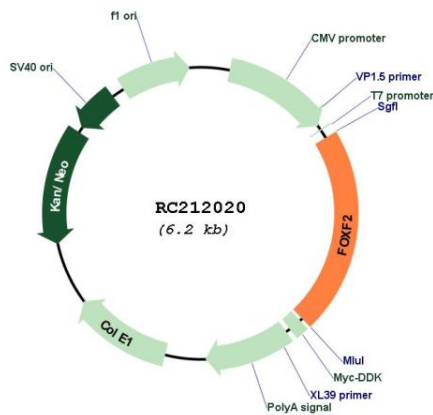
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001452.2](#)  
**RefSeq Size:** 2187 bp  
**RefSeq ORF:** 1335 bp  
**Locus ID:** 2295  
**UniProt ID:** [Q12947](#)  
**Cytogenetics:** 6p25.3  
**MW:** 46.4 kDa

**Gene Summary:** FOXF2 encodes forkhead box F2, one of many human homologues of the *Drosophila melanogaster* transcription factor forkhead. FOXF2 is expressed in lung and placenta, and has been shown to transcriptionally activate several lung-specific genes. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC212020