

## Product datasheet for RC218259

### FOXF1 (NM\_001451) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOXF1 (NM_001451) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXF1
Synonyms:	ACDMPV; FKHL5; FREAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218259 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACCCCGCGTCGTCGGCCCGTCCAAGGCCAAGAAGACCAACGCCGGCATCCGGCGCCCGGAGAAGC  
CGCCCTATTCTACATCGCGCTCATCGTCATGGCCATCCAGAGTTCACCCACCAAGCGCTGACGCTGAG  
CGAGATCTACCAGTTCCTGCAGAGCCGCTTCCCCTTCTCCGGGGCTCCTACCAGGGCTGGAAGAACTCC  
GTGCGCCACAACCTCTCGCTCAACGAGTGCTTCATCAAGTACCCAAGGGCCTTGGCGGCCCGGAAGG  
GCCACTACTGGACCATCGACCCGGCCAGCGAGTTCATGTTGAGGAGGGCTCCTTTCGGCGCGGCCGCG  
CGGCTTCCGAAGGAAATGCCAGGCGCTCAAGCCATGTACAGCATGATGAACGGGCTCGGCTTCAACCAC  
CTCCCGGACACCTACGGCTTCCAGGGCTCGGCCGGCGCCCTCTCGTGCCCGCCAAACAGCCTGGCGCTGG  
AGGGCGGCTGGGCATGATGAACGGCCACTTGCAGGGCAACGTGGACGGCATGGCCCTGCCAGCCACTC  
GGTGCCCACTGCCTTCCAACGGCGGCCACTCGTACATGGGCGGCTGCGGCGGCGGCGGCCGGCGAG  
TACCCGCACCACGACAGCTCGGTGCCCGCTCCCCGCTGCTGCCACCGGCGCGGTGGGTTCATGGAGC  
CGCAGCCGCTCTACTCGGGCTCGGCGGCGGCTGGCCGCCCTCGGCGTCCGCGGCGCTCAACAGCGGCGC  
CTTTATATCAAGCAGCAGCCCCGTGCCCTGTAACCCCGGGCAACCCCTGTCCGGCAGCCTCTCC  
ACGCACTCCCTGGAGCAGCCGTATCTGCACCAGAACGCCACAACGCCAGCCAGCTGCAAGGCATCC  
CGCGGTACTCACTCGCAGTCGCCAGCATGTGTGACCGAAAGGATTTGTCTTCTTTCAACGCCATGGC  
GTCTTCTCCATGCACTCGGCCGGCGGGGCTCCTACTACCAGCAGGTCACCTACCAAGACATCAAG  
CCTTGCCTGATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RC218259 protein sequence  
Red=Cloning site Green=Tags(s)

MDPASSGSPKAKKTNAGIRRPEKPPYSYIALIVMAIQSSPTKRLTLSEIYQFLQSRFPFFFRGSYQGWNKNS  
 VRHNLNLNECFIKLPGKGLRPGKGHYWTIDPASEFMFEESFRRRPRGFRRKQALKPMYSMMNGLGFNH  
 LPDYGFGQSAGGLSCPPNSLALEGLGMMNGHLPGNVDGMALPSHSVPHLPNNGGHSYMGCGGAAAGE  
 YPHHDSVPASPLLPAGGVMPEHAVYSGSAAWPPSASAALNSGASYIKQQPLSPCNPAANPLSGSL  
 THSLEQPYLHQNSHNAPAEALQGIPRYHSQSPSMCDRKEFVFSFNAMASSMHSAGGGSYYHQVQYQDIK  
 PCVM

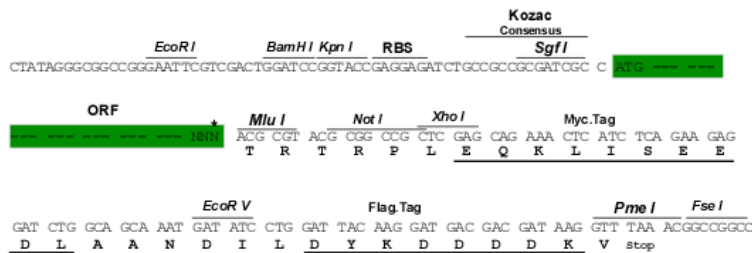
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6158\\_f04.zip](https://cdn.origene.com/chromatograms/mk6158_f04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001451

**ORF Size:** 1062 bp

**OTI Disclaimer:** 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\\_001451.2](#), [NP\\_001442.2](#)

**RefSeq Size:** 2579 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 2294

**UniProt ID:** [Q12946](#)

**Cytogenetics:** 16q24.1

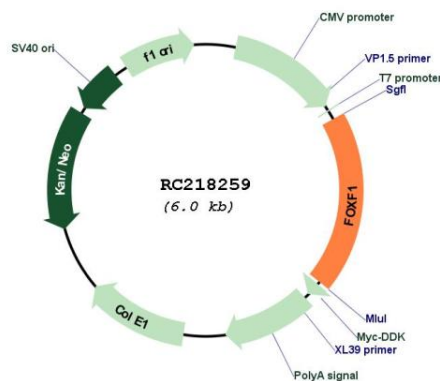
**Domains:** FH

**Protein Families:** Transcription Factors

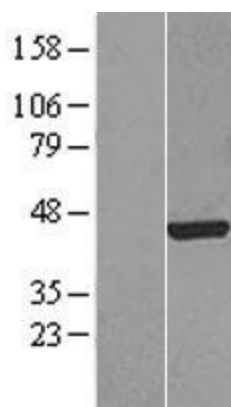
**MW:** 38 kDa

**Gene Summary:** This gene belongs to the forkhead family of transcription factors which is characterized by a distinct forkhead domain. The specific function of this gene has not yet been determined; however, it may play a role in the regulation of pulmonary genes as well as embryonic development. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC218259



Western blot validation of overexpression lysate (Cat# [LY400564]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218259 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).