

## Product datasheet for RC214562

### FOXB1 (NM\_012182) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOXB1 (NM_012182) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FOXB1
Synonyms:	FKH5; HFKH-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214562 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCGGCCCGGCCGCAACACGTACAGCGACCAGAAGCCGCCCTACTCGTACATCTCGCTGACCGCTA  
TGGCCATCCAGAGCTCTCCCGAGAAGATGCTGCCGCTGAGCGAGATCTACAAGTTCATCATGGACCGCTT  
CCCCTACTACAGGGAGAACACGCAGCGCTGGCAGAACAGTCTGCGCCACAACCTCTCCTTCAACGACTGC  
TTCATCAAGATCCCGCGCGGCCGACCAGCCAGGCAAGGGCAGCTTCTGGGCGCTGCACCCAAGCTGCG  
GGGACATGTTGAGAACGGCAGCTTCTCGGGCGCCGCAAGCGCTTCAAGGTGCTTAAGTCCGACCACCT  
GGCGCCCAGCAAGCCAGCCGACGCGGCGCAGTACCTGCAGCAGCAGGCCAAGCTGCGGCTCAGCGCGCTG  
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CGGGCTTCAAGCACCCCTTCGCCATCGAGAATCATCGCGCGGGAATACAAGATGCCTGGGGGGTGGC  
CTTCTCCGCCATGCAGCCGGTGCCCGCTGCCTACCCGCTCCCCAACCAGTTGACTACCATGGGCAGCTCG  
CTGGGCACCGGCTGGCCACACGTGTATGGCTCCGCGGCATGATCGACTCGGCCACCCCATCTCCATGG  
CGAGTGGCGACTACAGCGCTACGGCGTGCCGTGAAGCCGCTGTGCCACGCGGGGCCAAACGCTGCC  
CGCCATCCCCGTGCCATTAAGCCACGCCGGCCGCCGTGCCCGCGCTGCCTGCCTGCCAGCGCCCATC  
CCCACCTTGCTCTCGAACTCGCCGCCCTCGCTCAGCCCCAGTCTCGAAACAGCCACCAGCCAAAGCA  
GCCCGCCACCCCGAGCAACGCTCACCAGCCCGGCTCCGCTTGCCTCGGTTGGCGGTGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC214562 protein sequence  
Red=Cloning site Green=Tags(s)

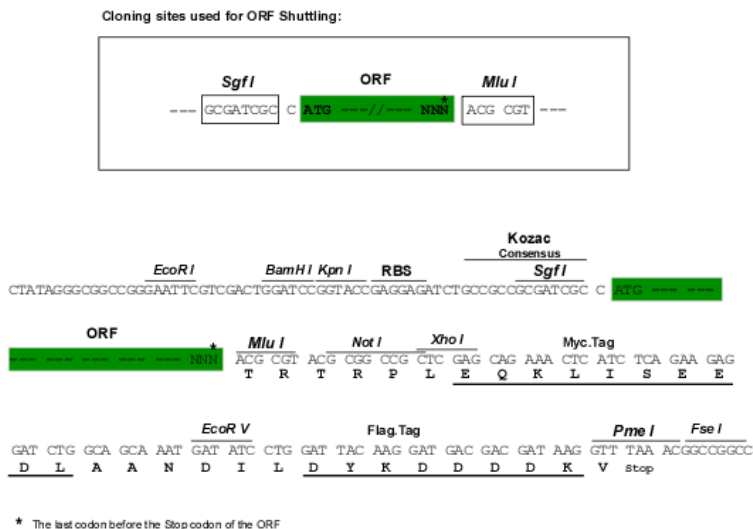
MPRPGRNTYSQKPPYSYISLTAMAIQSSPEKMLPLSEIYKFIMDRFPYYRENTQRWQNSLRHNL SFNDC  
 FIKIPRRPDQPGKGSFWALHPSCGDMFENG SFLRRRKRFKVLKSDHLAPSKPADAAQYLQQAKLRLSAL  
 AASGTHLPQMPAAAYNLGGVAQPSGFKHPFAIENIIAREYKMPGGLAFSAMQPVPAAYPLPNQLTTMGSS  
 LGTGWPHVYGSAGMIDSATPISMASGDYSAYGVPLKPLCHAAGQTLPAIPVPIKPTPAAVPALPALPAPI  
 PTL L SNSPPSLSPTSSQTATSQSSPATPSETLTSPASALHSVAVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6462\\_a02.zip](https://cdn.origene.com/chromatograms/mk6462_a02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012182

**ORF Size:** 975 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\\_012182.3](#)

**RefSeq Size:** 1459 bp

**RefSeq ORF:** 978 bp

**Locus ID:** 27023

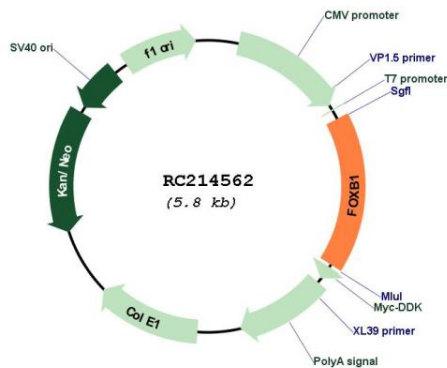
**UniProt ID:** [Q99853](#)

**Cytogenetics:** 15q22.2

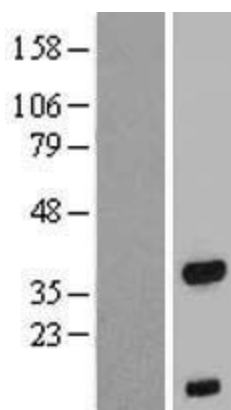
**Protein Families:** Transcription Factors

**MW:** 35 kDa

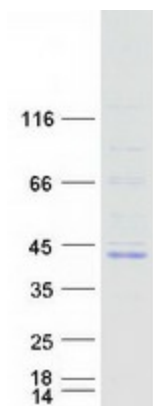
**Product images:**



Circular map for RC214562



Western blot validation of overexpression lysate (Cat# [LY415929]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214562 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FOXB1 protein (Cat# [TP314562]). The protein was produced from HEK293T cells transfected with FOXB1 cDNA clone (Cat# RC214562) using MegaTran 2.0 (Cat# [TT210002]).