

Product datasheet for **RG216658**

FOXB2 (NM_001013735) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOXB2 (NM_001013735) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOXB2
Synonyms:	bA159H20.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216658 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001013735, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCTCGGCCCGCAAGTCATCTTATTCTGATCAAAAGCCACCCTACTCATATATTAGCCTCACAGCGA
 TGGCTATACAGCATTAGCTGAGAAGATGTTGCCTCTCTCGACATCTACAAATTCATCATGGAGCGGTT
 CCCCTACTACCGGAACACACCCAGCGGTGGCAGAACTCACTTAGACACAACCTGAGCTTCAATGATTGT
 TTTATTAAGATTCCAGGAGGCCGACCGAGCCAGGCAAGGTTTATTCTGGGCACTCCACCCCGATTGCG
 GAGACATGTTTGAACCGGAGCTTTCTCGACGACGGAAGAGATTTAAGGTCTGAGAGCCGATCATAC
 CCATCTCCACGCCGGTCCACTAAATCTGCACCGGGGGCCGCGCCAGGCGGGCATCTCCATCCCCACCAC
 CACCATCACCCCATCACCATCATCACACCGCCGCTGCACACCACCACCATCACACACCCCCAC
 AACACCCCTCCCCCGCACCCCGCCACCCACATGGTCCACTACTTTACCAACAGCCCCCAGCGC
 CCCGACGCCCCGCCACCTGCCATCAGACCCCCCAGCAGCCCCACAGCAAAGCCAGCCCCAGCAA
 CCTAGCCATCTGGTAAATGCAGGAGGCTGCGCGGTGGCTGCGGCTGCAGTGCCGCTGCTGTCGG
 CTGTTGGGTCTGTGGCAGACTGAGCCAGTTCCTCCCTACGGCTTGGTTCGCCGCGCGCGGCCGC
 CGCGCTGCAGCCAGCACTTCCGGCTTTAAGCATCCATTGCTATTGAGAACATCATTGGCCGCACTAT
 AAAGGCGTCTCTCAAGCCGAGGACTCCCACTCGCGAGTGTGATGCATCACTTGGGCTATCCAGTGCCAG
 GCCAGCTGGGTAACTGCTGCTCCGTCTGGCCCCACGTGGGGTAATGGACAGTGTGGCAGCAGCCGC
 TGCCGCTGCAGTGCCGCTGGCGTTCCAGTAGTCCCAGATATGGAGCATTGCGCGTGCCGCTGAAGTCC
 CTGTGCCACTCTGCAAGCCAGAGCCTGCCAGCCATGCCGGTGCCCATCAAGCCAACACCGCCCTCCAC
 CAGTGTCTGCCTTGACGCCAGGACTCACGGTGCCCGCCGATCTCAGCAGCCTCCAGCACCTCAACGGT
 GTGCAGCGCCGAGCCGCTAGCCCCGTGCCAGCCTCTGGAACCACTGCACCCACATCAGCTGAGTCA
 AAAGGTGAAGCCTTCATTCCGTGTTGGTCACTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

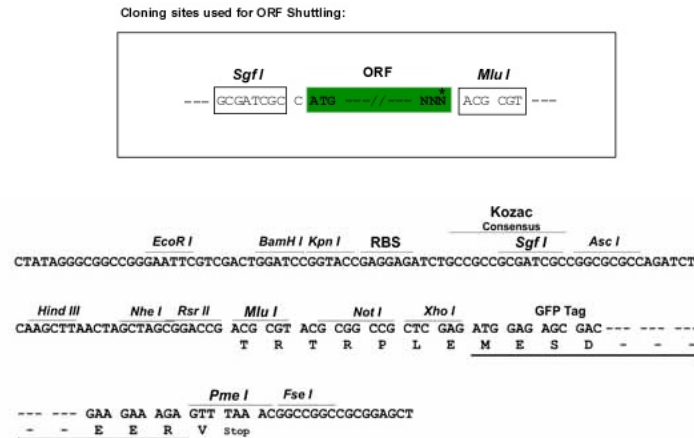
>RG216658 representing NM_001013735
 Red=Cloning site Green=Tags(s)

MPRPGKSSYSDQKPPYSYISLTAMAIQHSASEKMLPLSDIYKFIMERFPYYREHTQRWQNSLRHNL SFNDC
 FIKIPRRPDQPGKGSFWALHPDCGDMFENGSLRRRKRKFLRADHHLHAGSTKSAPGAGPGGHLHPHH
 HHHPHHHHHHAAHHHHHHHPQPPPPPPPPHMHVYFHQQPPTAPQPPHPLSQPPQPPQSQPPQ
 PSHPGKMQEAAAVAAAAAAAAAAVGSVGRLSQFPYGLGSAASAAAAAASGFKHPFAIENIIGRDY
 KGVQLAGGLPLASVMHHLGYVPVQGLGNVSVSWPHVGMDSVAAAAAAGVPVGPEYGAFGVPVKS
 LCHSASQSLPAMPVPIKPTPALPPVSALQPGLTVPAASQPPAPSTVCSAAAASPVASLLEPTAPSAES
 KGGSLHSLVHS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001013735

ORF Size: 1296 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_001013735.1](#), [NP_001013757.1](#)

RefSeq Size: 1299 bp

RefSeq ORF: 1299 bp

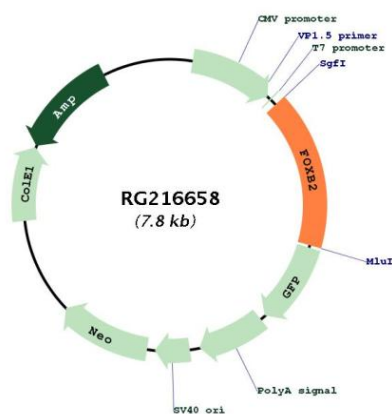
Locus ID: 442425

UniProt ID: [Q5VYV0](#)

Cytogenetics: 9q21.2

Gene Summary: Transcription factor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216658