

Product datasheet for **RG211780**

HOXB3 (NM_002146) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HOXB3 (NM_002146) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HOXB3
Synonyms: Hox-2.7; HOX2; HOX2G
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211780 representing NM_002146
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGAAAGCCACCTACTACGACAACGCCGGCTGCTCTCTTCGGAGGCTATTCTCGTACCCTGGCA
 GCAATGGCTTCGGCTTCGATGTCCCCCAACCCCATTTTCAGGCCGCCACGCACCTGGAGGGCGACTA
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 GGCAGCTGCATGAGGCCGGTCTGGCCCCGAGCCCTGTGGCCCCGCTGGCTACCCCCGCCAGTG
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 TCCATGACCCCCAGCTACGAGAGCCCGTCCCCACCCGCTTCGGTAAAGCCACCAGAATGCCTACGGCC
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 ACCACCTTTCCATCACCTTCCGGGAACCTGGACTACAACGGGGCGCCCCCTATGGCGCCAGCCAGCA
 CCACGGACCCTGCGAACCCACCCACCTACACAGACCTCTCCTCTACCACGCGCTCCTCCTCAGGGT
 AGAATCCAAGAAGCGCCAAATTAACACACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211780 representing NM_002146
 Red=Cloning site Green=Tags(s)

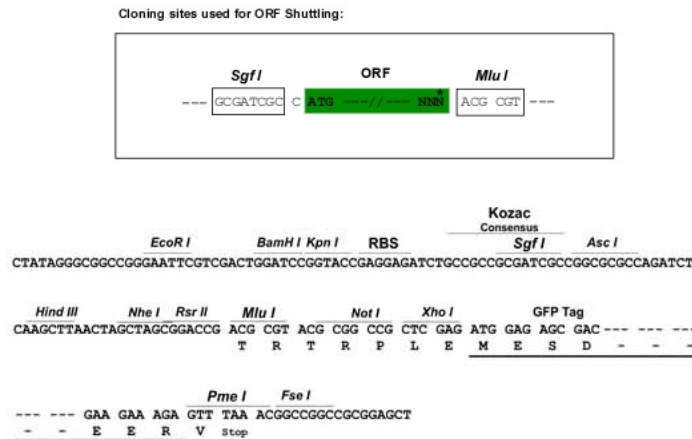
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 RYLCRPRRVEMANLLNLSEKQIKIWFQNRMRMYKKDQKAKGLASSGGPSPAGSPPQPMQSTAGFMNALH
 SMTPSYESPSPAFGKAHQNAYALPSNYQPPLKCGGAPQKYPTPAPEYEPHVLQANGGAYGTPMQGSP
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 RIQEAPKLTHL

TRTRPLE - GFP Tag - V

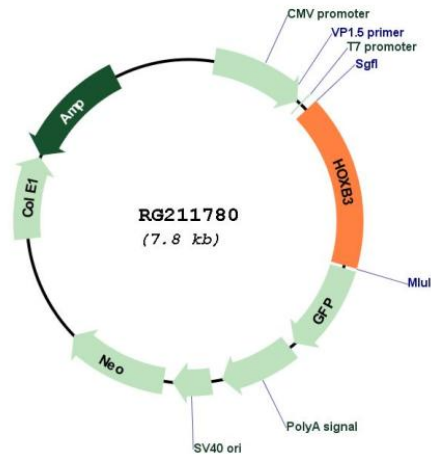
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_002146

ORF Size:	1293 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:	<ol style="list-style-type: none">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_002146.4 , NP_002137.4
RefSeq Size:	3627 bp
RefSeq ORF:	1296 bp
Locus ID:	3213
UniProt ID:	P14651
Cytogenetics:	17q21.32
Gene Summary:	This gene is a member of the Antp homeobox family and encodes a nuclear protein with a homeobox DNA-binding domain. It is included in a cluster of homeobox B genes located on chromosome 17. The encoded protein functions as a sequence-specific transcription factor that is involved in development. Increased expression of this gene is associated with a distinct biologic subset of acute myeloid leukemia (AML). [provided by RefSeq, Jul 2008]