

Product datasheet for **RG204197**

HOXB6 (NM_018952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXB6 (NM_018952) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HOXB6
Synonyms:	Hox-2.2; HOX2; HOX2B; HU-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204197 representing NM_018952 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTCCTATTTTCGTGAACTCCACCTTCCCCGTCACCTCTGGCCAGCGGGCAGGAGTCCTTCTGGGCC
AGCTACCGCTCTATTCGTCGGGCTATGCGGACCCGCTGAGACATTACCCCGCCCTACGGGCCAGGGCC
GGGCCAGGACAAGGGCTTGGCACTTCTCCTATTACCCGCGGGCGGGTGGCTACGGCCGAGCGGCC
CCCTGCGACTACGGCCGGCGCCGCCCTTCTACCGCGAGAAAGAGTCGGCTGCGCACTCTCCGGCGCC
ACGAGCAGCCCCGTTCCACCCGAGCCGCGGAAGTCGGACTGCGCGCAGGACAAGAGCGTGTTCGGCGA
GACAGAAGAGCAGAAGTCTCCACTCCGGTCTACCCGTGGATGCAGCGGATGAATTTCGTGCAACAGTTC
TCTTTGGGCCACGGCCGGCGAGGCCGCCAGACATACACGTTACCAGACGCTGGAGCTGGAGAAGG
AGTTTCACTACAATCGCTACCTGACGCGCGGGCGGCATCGAGATCGCGCACGCCCTGTGCCTGACGGA
GAGGCAGATCAAGATATGGTTCCAGAACCAGCGCATGAAGTGAAAAAGGAGAGCAAACACTGCTCAGCGCG
TCTCAGCTCAGTCCGAGGAGGAGGAAGAAAAACAGGCCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204197 representing NM_018952
 Red=Cloning site Green=Tags(s)

MSSYFVNSTFPVTLASGQESFLGQLPLYSSGYADPLRHYPAPYGPQDKGFATSSYYPAGGGYGRAA
 PCDYGPAPAFYREKESACALSGADEQPPFHPEPRKSDCAQDKSVFGETEEQKCTSPVYPWMQRMNSCNS
 SFGPSGRRGRQTYTRYQTLELEKEFHYNRYL TRRRRIEIAHALCLTERQIKIWFQNRMRMKWKESKLLSA
 SQLSAEEEEKQAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018952

ORF Size: 672 bp

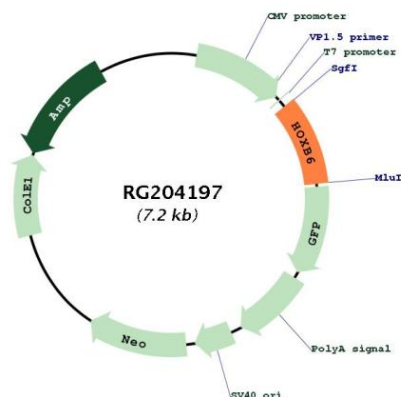
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<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_018952.5
RefSeq Size:	1686 bp
RefSeq ORF:	675 bp
Locus ID:	3216
UniProt ID:	P17509
Cytogenetics:	17q21.32
Domains:	homeobox
Protein Families:	Transcription Factors
Gene Summary:	This gene is a member of the Antp homeobox family and encodes a 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, including that of lung and skin, and has been localized to both the nucleus and cytoplasm. Altered expression of this gene or a change in the subcellular localization of its protein is associated with some cases of acute myeloid leukemia and colorectal cancer. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204197