

## Product datasheet for **SC110922**

### **HOXB6 (NM\_018952) Human Untagged Clone**

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | HOXB6 (NM_018952) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | HOXB6   |
| Synonyms:                 | Hox-2.2; HOX2; HOX2B; HU-2  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC110922 sequence for NM_018952 edited (data generated by NextGen Sequencing) |

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ATGAGTTCCTATTTTCGTGAACCTCCACCTTCCCCGTCACCTCTGCCAGCGGGCAGGAGTCC
TTCCTGGGCCAGCTACCGCTCTATTCGTGGGCTATGCGGACCCGCTGAGACATTACCCC
GCGCCCTACGGGCCAGGGCCGGGCCAGGACAAGGGCTTTGCCACTTCTCTATTACCCG
CCGGCGGGCGGTGGCTACGGCCGAGCGGCCCTGCGACTACGGGCCGGCGCCGGCCTTC
TACCGCGAGAAAGAGTCGGCCTGCGCACTCTCCGGCGCCGACGAGCAGCCCCGTTCCAC
CCCGAGCCGCGGAAGTCGGACTGCGCGCAGGACAAGAGCGTGTTCCGGCAGACAGAAGAG
CAGAAGTGCTCCACTCCGGTCTACCCGTGGATGCAGCGGATGAATTCGTGCAACAGTTCC
TCCTTTGGGCCAGCGGCCGGCGAGGCCCGCCAGACATACACAGTTACCAGACGCTGGAG
CTGGAGAAGGAGTTTCACTACAATCGCTACCTGACGCGGGCGGGCGCATCGAGATCGCG
CACGCCCTGTGCCTGACGGAGAGGAGATCAAGATATGGTTCCAGAACCACGCATGAAG
TGGAAAAAGGAGAGCAAACCTGCTCAGCGCTCTCAGCTCAGTCCGAGGAGGAGGAAGAA
AACAGGCCGAGTGA
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Clone variation with respect to NM\_018952.4



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_018952 unedited<br/> AATGTTACATTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGCGCGGC<br/> GCTCGGACTATAAAACACAACAAATCATAAACCCGGCGGAGCAGCAGCGGCCGCGCGC<br/> CTCCCCTCCCAATGAGTTCCTATTTTCGTGAACTCCACCTTCCCCGTCCTGTCGCGCAGCG<br/> GGCAGGAGTCTTCTGGGCCAGCTACCGCTCTATTTCGTGGGCTATGCGGACCCGCTGA<br/> GACATTACCCCGCGCCCTACGGGCCAGGGCCGGCCAGGACAAGGGCTTTGCCACTTCTCT<br/> CCTATTACCCCGCGCGGGCGGTGGCTACGGCCGAGCGGCCCTGCGACTCTCCGGCGCCGACGAGCAGC<br/> CGCCGGCCTTCTACCGCGAGAAAGAGTCCGCTGCGCACTCTCCGGCGCCGACGAGCAGC<br/> CCCCGTTCCACCCGAGCCGCGGAAGTCGGACTGCGCGCAGGACAAGAGCGTGTTCGCGC<br/> AGACAGAAGAGCAGAAGTCTCCACTCCGGTCTACCCGTGGATGCAGCGGATGAATTCGT<br/> GCAACAGTTCCTCTTTGGGCCAGCGGCCGGCGAGGCCGCCAGACATACACAGTTACC<br/> AGACGCTGGAGCTGGAGAAGGAGTTTCACTACAATCGCTACCTGACGCGCGCGCGCGCA<br/> TCGAGATCGCGCACGCCCTGTGCCTGACGGAGAGGCAGATCAAGATATGGTTCCAGAACC<br/> GACGCATGAAGTGAAAAAGGAGAGCAAAGTCTCAGCGCTCTCAGCTCAGTCCCGAGG<br/> AGGAGGAAGAAAACAGCCGAGTGAAGTGCCTTGAAAAGGGAGGGAGACCCGAGNGAA<br/> AGGCCTGTGGGGAGCCACGGCGTCAGAGAGACCCGGAAGGAAGCTCTCGNGTGGNGGA<br/> GCCAGNAN</p> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_018952   |
| <b>Insert Size:</b>                 | 1400 bp   |
| <b>OTI Disclaimer:</b>              | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>  |
| <b>Components:</b>                  | 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).  |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                      | <a href="#">NM_018952.3</a> , <a href="#">NP_061825.2</a>   |
| <b>RefSeq Size:</b>                 | 1679 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]