

Product datasheet for RC208375

HOXB4 (NM 024015) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HOXB4 (NM_024015) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: HOXB4

Synonyms: HOX-2.6; HOX2; HOX2F

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC208375 representing NM_024015

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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HOXB4 (NM_024015) Human Tagged ORF Clone - RC208375

Protein Sequence: >RC208375 representing NM_024015

Red=Cloning site Green=Tags(s)

MAMSSFLINSNYVDPKFPPCEEYSQSDYLPSDHSPGYYAGGQRRESSFQPEAGFGRRAACTVQRYAACRD PGPPPPPPPPPPPPBLSPRAPAPPPAGALLPEPGQRCEAVSSSPPPPPCAQNPLHPSPSHSACKEPV VYPWMRKVHVSTVNPNYAGGEPKRSRTAYTRQQVLELEKEFHYNRYLTRRRRVEIAHALCLSERQIKIWF QNRRMKWKKDHKLPNTKIRSGGAAGSAGGPPGRPNGGPRAL

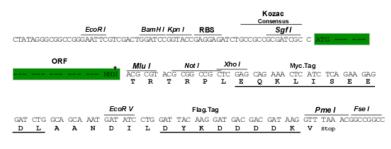
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2583 b07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_024015

ORF Size: 753 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: <u>NM 024015.5</u>

 RefSeq Size:
 2040 bp

 RefSeq ORF:
 756 bp

 Locus ID:
 3214

 UniProt ID:
 P17483

Protein Families: ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transcription

Factors

17q21.32

MW: 27.4 kDa

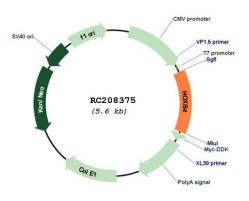
Gene Summary: This gene is a member of the Antp homeobox family and encodes a nuclear protein with a

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. Intracellular or ectopic expression of this protein expands hematopoietic stem and progenitor cells in vivo and in vitro, making it a potential candidate

for therapeutic stem cell expansion. [provided by RefSeq, Jul 2008]

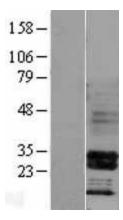
Product images:

Cytogenetics:



Circular map for RC208375





Western blot validation of overexpression lysate (Cat# [LY402972]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208375 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).