

Product datasheet for **RC209991**

HOXB13 (NM_006361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXB13 (NM_006361) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXB13
Synonyms:	HPC9; PSGD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209991 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCGGCAATTATGCCACCTTGGATGGAGCCAAGGATATCGAAGGCTTGCTGGGAGCGGGAGGGG
GGCGGAATCTGGTCGCCCACTCCCCTCTGACCAGCCACCCAGCGGCGCTACGCTGATGCCTGCTGTCAA
CTATGCCCCCTTGGATCTGCCAGGCTCGCGGAGCCGCCAAGCAATGCCACCCATGCCCTGGGGTGCCC
CAGGGGACGTCCCAGCTCCCGTGCCTTATGGTTACTTTGGAGGCGGGTACTACTCCTGCCGAGTGTCCC
GGAGCTCGCTGAAACCTGTGCCAGGCAGCCACCCTGGCCGCGTACCCGCGGAGACTCCACGCGCGG
GGAAGAGTACCCAGCCGCCCACTGAGTTTGCCTTCTATCCGGGATATCCGGGAACCTACCAGCCTATG
GCCAGTTACCTGGACGTGTCTGTGGTGCAGACTCTGGGTGCTCCTGGAGAACCGGACATGACTCCCTGT
TGCTGTGGACAGTTACCAGTCTTGGGCTCTCGCTGGTGGCTGGAACAGCCAGATGTGTTGCCAGGGAGA
ACAGAACCACAGGTCCCTTTTGAAGGCAGCATTTGCAGACTCCAGCGGGCAGCACCTCCTGACGCC
TGCGCCTTTCTGTCGCGGCCGCAAGAAACGATTCCGTACAGCAAGGGGCAGTTGCGGGAGCTGGAGCGGG
AGTATGCGGCTAACAAGTTCATCACCAGGACAAGAGGCGCAAGATCTCGGCAGCCACAGCCTCTCGGA
GCGCCAGATTACCATCTGGTTTCAGAACCGCCGGGTCAAAGAGAAGAAGTTCTCGCCAAGGTGAAGAAC
AGCGCTACCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209991 protein sequence
 Red=Cloning site Green=Tags(s)

MEPGNYATLDGAKDIEGLLGAGGGRNLVAHSPLTSHPAAPTLMPAVNYAPLDLPGSAEPPKQCHPCPGVP
 QGTSPAPVPYGYFGGGYSCRVSRLKPCAQAATLAAYPAETPTAGEEYPSRPTEFAFYPGYPGTYPQM
 ASYLDVSVVQTLGAPGEPRHDSLLPVDSYQSWALAGGWSQMCCQGEQNPPGPFWKAADFSSGQHPDA
 CAFRRGRKKRIPYSKGQLRELEREYAANKFITKDKRRKISAATSLSERQITIWFQNRVRKEKKVLAKVKN
 SATP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6070_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006361

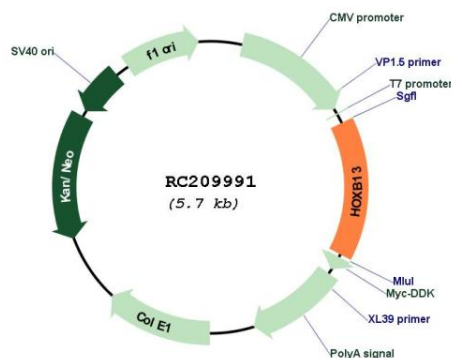
ORF Size: 852 bp

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.

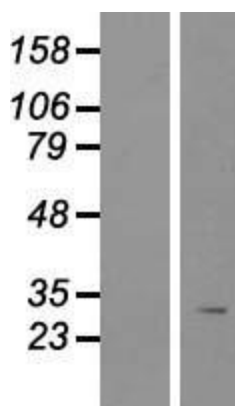
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006361.6
RefSeq Size:	3047 bp
RefSeq ORF:	855 bp
Locus ID:	10481
UniProt ID:	Q92826
Cytogenetics:	17q21.32
Domains:	homeobox
Protein Families:	Transcription Factors
MW:	30.7 kDa
Gene Summary:	This gene encodes a transcription factor that belongs to the homeobox gene family. Genes of this family are highly conserved among vertebrates and essential for vertebrate embryonic development. This gene has been implicated to play a role in fetal skin development and cutaneous regeneration. In mice, a similar gene was shown to exhibit temporal and spatial colinearity in the main body axis of the embryo, but was not expressed in the secondary axes, which suggests functions in body patterning along the axis. This gene and other HOXB genes form a gene cluster at chromosome the 17q21-22 region. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209991



Western blot validation of overexpression lysate (Cat# [LY416701]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209991 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).