

Product datasheet for **RC400243**

HOXB13 (NM_006361) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	HOXB13 (NM_006361) Human Mutant ORF Clone
Mutation Description:	G84E
Affected Codon#:	84
Affected NT#:	c.251
Nucleotide Mutation:	HOXB13 Mutant (G84E), Myc-DDK-tagged ORF clone of Homo sapiens homeobox B13 (HOXB13) as transfection-ready DNA
Effect:	Missense
Symbol:	HOXB13
Synonyms:	HPC9; PSGD
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_006361
ORF Size:	852 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC400243 representing NM_006361
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCGCAATTATGCCACCTTGGATGGAGCCAAGGATATCGAAGGCTTGTCTGGGAGCGGGAGGGG
GGCGGAATCTGGTCGCCCACTCCCTCTGACCAGCCACCCAGCGCGCCTACGCTGATGCCTGTGTCAA
CTATGCCCCCTTGGATCTGCCAGGCTCGGCGGAGCCGCAAGCAATGCCACCCATGCCCTGGGGTGCC
CAGGGGACGTCCCAGCTCCCGTGCCTTATGGTACTTTGAAGGCGGGTACTACTCTGCCGAGTGTCC
GGAGCTCGCTGAAACCTGTGCCAGGCAGCCACCCTGGCCGCGTACCCCGGGAGACTCCCACGGCCGG
GGAAGAGTACCCAGCCGCCCACTGAGTTTGCCTTCTATCCGGGATATCCGGGAACCTACCAGCCTATG
GCCAGTTACCTGGACGTGTCTGTGGTGCAGACTCTGGGTGCTCCTGGAGAACCGGACATGACTCCCTGT
TGCCTGTGGACAGTTACCAGTCTTGGCTCTCGCTGGTGGCTGGAACAGCCAGATGTGTTGCCAGGGAGA
ACAGAACCACCAGGTCCCTTTTGAAGGCAGATTTGCAGACTCCAGCGGGCAGCACCTCCTGACGCC
TGCGCCTTTCGTGCGGCGCAAGAAACGATTCCGTACAGCAAGGGGCAGTTGCGGGAGCTGGAGCGGG
AGTATGCGGCTAACAAAGTTCATACCAAGGACAAGAGGCGCAAGATCTCGGCAGCCACCAGCCTCTCGGA
GCGCCAGATTACCATCTGGTTTCAGAACCGCCGGGTCAAAGAGAAGAAGGTTCTCGCAAGGTGAAGAAC
AGCGCTACCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

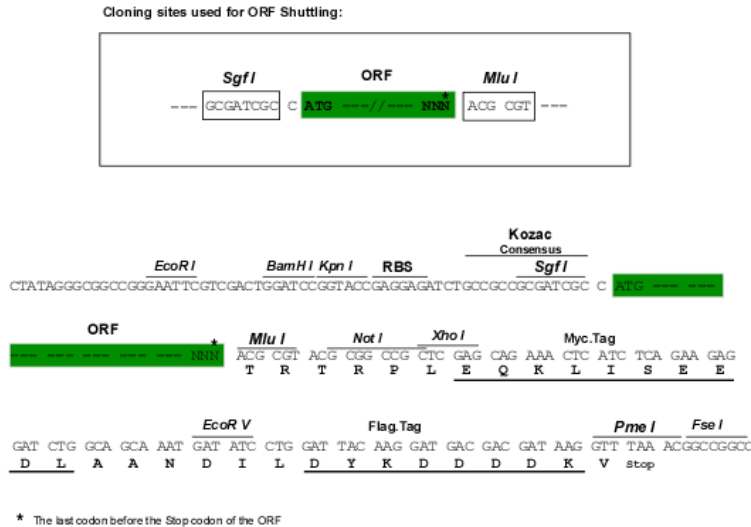
>RC400243 representing NM_006361
Red=Cloning site Green=Tags(s)

MEPGNYATLDGAKDIEGLLGAGGGRNLVAHSPLTSHPAAPTLMPAVNYAPLDLPGSAEPPKQCHPCPGVP
QGTSPAPVPYGYFEGGYSCRVSRSLLKPCAQAATLAAYPAETPTAGEEYPSRPTEFAFYPGYPTGYQPM
ASYLDVSVVQTLGAPGEPRHDSLLPVDSYQSWALAGGWNSQMCCQGEQNPPGPFWKAADFADSSGQHPPDA
CAFRRGRKKRIPYKQQLRELEREYAANKFITKDKRRKISAATSLSERQITIWFQNRVKEKKVLAKVKN
SATP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

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).

RefSeq:

[NP_006352](#)

RefSeq Size:

3047 bp

RefSeq ORF:

855 bp

Locus ID:

10481

Cytogenetics:

17q21.32

Domains:

homeobox

Protein Families:

Transcription Factors

MW:

30 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]