

Product datasheet for RC210396

HOXB2 (NM_002145) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HOXB2 (NM_002145) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HOXB2
Synonyms:	Hox-2.8; HOX2; HOX2H; K8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC210396 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATTTTGAATTTGAGAGGGAGATTGGGTTTATAAACAGCCAGCCGTCGCTCGCCGAGTGTCTGACTT
CCTTCCCCGCTGTCTTGGAGACATTTCAAACCTCATCAATCAAGGAGTCGACATTAATTCCTCCTCCTCC
TCCTTTGAGCAAACCTTCCCCAGCCTCCAGCCCGCGCCTCCACCTTCAGAGACCCAGGAGCCAAAAG
CGAGCCGAAGATGGCCCTGCTCTGCCGCCGCCACCGCCGCGCCACTCCCGCTGCCCCCGGCCCCCG
AGTTCCCTTGGATGAAAGAGAAGAAATCCGCCAAGAAACCCAGCCAATCCGCCACGTCTCCTTCTCCGGC
CGCCTCCGCCGTTCCGGCCTCCGGGGTCGGATCGCCTGCAGATGGCCTGGGACTGCCGGAGGCTGGTGGC
GGCGGGGCGCGCAGGCTGCGCACGGCTTACACCAACACGCAGCTGCTGGAAGTGGAGAAGGAATTCCT
TTAATAAGTACCTGTGCCGGCCACGCCGCTCGAGATCGCGCCTTGTGGACCTCACCGAAAGGCAGGT
CAAAGTCTGGTTTCAGAACCAGCGCATGAAGCACAAGCGGCAGACGCAGCACCGAGAGCCGCCGATGGG
GAGCCTGCCTGCCGGGAGCCCTGGAGGACATCTGCGACCCTGCCGAGGAACCCGCGCCAGCCCGGGC
GCCCTCCGCCTCGCGGGCGCGTGGGAAGCCTGTGTACCCCGCGAGGTGGTCCGGGGGCCCTAAG
CGCGGACCCCGCCTTTAGCCGTTGCTTAGAGGGCGCAGGCGCTCGAGTCCCGCTGCGCGCTGCGC
GGGGCCGCGGGCTGGAGCCCGGCCATTGCCAGAAGACGTCTTCTCGGGCGCCAGGATTCACCTTTCC
TTCCCGACCTCAACTTCTTCCGGCCGACTCCTGTCTCCAGTATCCGGAGGCCTCTCCCTAGCCTACA
GGGTTCTCTCGACAGCCCGTCCCTTTTCCGAGGAAGAGCTGGATTTTTTACCAGTACGCTCTGTGCC
ATCGACCTGCAGTTTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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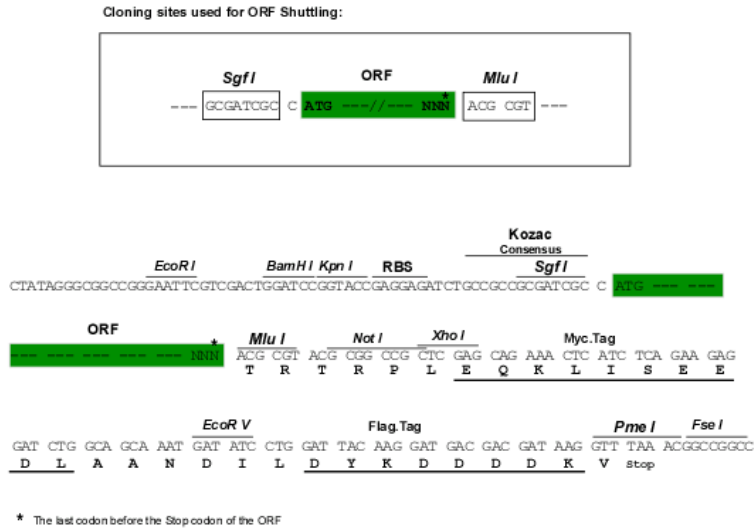
Protein Sequence: >RC210396 protein sequence
 Red=Cloning site Green=Tags(s)

MNFEFEREIGFINSQPSLAECLTSFPAVLETFQTSSIKESTLIPPPPPFEQTFPSLQPGASTLQRPRSQK
 RAEDGPALPPPPPPPLAAPPAPPEFPWMKEKKSAKKPSQSATSPSPAASAVPASGVGSPADGLGLPEAGG
 GGARRLRTAYTNTQLLELEKEFHFNKYLCRPRRVEIAALLDLTERQVKVWFQNRMRKHKRQTOHREPPDG
 EPACPGALEDICDPAEPPAASPGGSPASRAAWEACHPPEVVPAL SADPRPLAVRLEGAGASSPGCALR
 GAGGLEPGPLPEDYVSGRQDSPFLPDLNFFAADSCLQLSGGLSPSLQGLDSPVPFSEEELDFFSTLCA
 IDLQFP

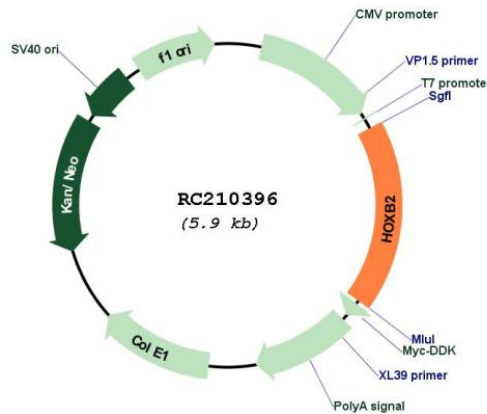
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002145

ORF Size:	1068 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:	<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_002145.3 , NP_002136.1
RefSeq Size:	1614 bp
RefSeq ORF:	1071 bp
Locus ID:	3212
UniProt ID:	P14652
Cytogenetics:	17q21.32
MW:	37.9 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. Increased expression of this gene is associated with pancreatic cancer. [provided by RefSeq, Jul 2008]