

GBX2 cDNA

Catalog Number: ATGD0322

PRODUCT INFORMATION

Catalog number

ATGD0322

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001476.2

Alternative Names

mRNA Refseq

NM_001485.3

OMIM

601135

Chromosome location

2q37.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1047bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

GBX2 (gastrulation brain homeobox 2) is a homeobox gene involved in the normal development of rhombomeres

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1-3 which is the mid/hindbrain region. This gene is a dosage dependent transcription factor involved in the regulation of proper expression of other genes. GBX2 expression occurs during gastrulation and continues to be expressed in the later stages of embryogenesis.

DATA

Sequence nucleotides

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ATGAGCGCAGCGTTCCCGCCGTCGCTGATGATGATGCAGCGCCCGCTGGGGAGTAGCACC GCCTTCAGCATAGACTCGCT
GATCGGCAGCCCCGCCGAGCCAGCCCCGGCCATTTTCGTCTACACCGGCTACCCCATGTTTCATGCCCTACCGGCCGGTAGT
GCTGCCGCCGCCGCCGCCGCCGCCGCCGCCGCTGCCCGAGGCCGCGCTGCAGCCAGCGCTGCCGCCCGCACACCCTCAC
CACCAGATCCCCAGCCTGCCACAGGCTTCTGCTCCAGCCTGGCGCAGGGCATGGCGCTCACCTCTACGCTCATGGCCACG
CTCCCCGGCGGCTTCTCCGCGTCGCCCCAGCACCAGGAGGCGGCAGCGGCCCGCAAGTTCGCGCCGAGCCGCTGCCCG
GCGGCGGTAACTTCGACAAGGCGGAGGCGCTGCAGGCTGACGCGGAGGACGGCAAAGGCTTCCTGGCCAAAGAGGGGCTC
GCTGCTCGCCTTCTCCGCGGCCGAGACGGTGCAGGCTTCGCTCGTCGGGGCTGTCCGAGGGCAAGGGAAAGACGAGTCAA
AGGTGGAAGACGACCCGAAGGGCAAGGAGGAGAGCTTCTCGCTGGAGAGCGATGTGGACTACAGCTCGGATGACAATCTG
ACTGGCCAGGCAGCTCACAAGGAGGAAGACCCGGGCCACGCGCTGGAGGAGACCCCGCCGAGCAGCGGCGCCGCGGGC
AGCACCACGTCTACGGGCAAGAACC GGCGGCGGCGGACTGCCTTACCAGCGAGCAGCTGCTGGAGCTAGAGAAGGAGT
TCCACTGCAAAAAGTACCTCTCCTTGACCGAGCGCTCGCAGATCGCCACGCCCTCAA ACTCAGCGAGGTGCAGGTGAAAA
TCTGTTCCAGAACCGACGGGCCAAGTGAAACGGGTGAAGGCAGGCAATGCCAATTCCAAGACAGGGGAGCCCTCCCGG
AACCTAAGATCGTCGTCCCCATCCCTGTCCACGTCAGCAGGTTTCGCTATCAGAAGTCAGCATCAGCAGCTAGAACAGGCC
CGGCCCTGA
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Transaction Sequence

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MSAAFPPSLM MMQRPLGSST AFSIDSLIGS PPQPSPGHFV YTGYPMFMPY RPVVLPPPPPPPPALPQAAL QPALPPAHPH
HQIPSLPTGF CSSLAQGMAL TSTLMATLPG GFSASPQHQA AAAARKFAPQ PLPGGNFDK AEALQADAED GKGFLAKEGS
LLAFSAAETV QASLVGAVRGQGKDESKVED DPKGKEESFS LESDVDYSSD DNLTGQAAHK EEDPGHALEE
TPSSGAAGSTTSTGKNRRR RTAFTSEQLL ELEKEFHCKK YLSLTERSQI AHALKLSEVQ VKIWFQNRRAKWKRVKAGNA
NSKTGEPSRN PKIVVPIPVH VSRFAIRSQH QQLEQARP
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