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

ATGAGCGCAGCGTTCCCGCCGTCGCTGATGATGATGCAGCGCCCGCTGGGGAGTAGCACCGCCTTCAGCATAGACTCGCT
GATCGGCAGCCCGCCGCAGCCCAGCCCCGGCCATTTCGTCTACACCGGCTACCCCATGTTCATGCCCTACCGGCCGGTAGT
GCTGCCGCCGCCGCCGCCGCCGCCGCCCGCGCTGCCCCAGGCCGCGCTGCAGCCAGCGCTGCCGCCCGCACACCCTCAC
CACCAGATCCCCAGCCTGCCCACAGGCTTCTGCTCCAGCCTGGCGCAGGGCATGGCGCTCACCTCTACGCTCATGGCCACG
CTCCCCGGCGGCTTCTCCGCGTCGCCCCAGCACCAGGAGGCGGCAGCGGCCCGCAAGTTCGCGCCGCAGCCGCTGCCCG
GCGGCGGTAACTTCGACAAGGCGGAGGCGCTGCAGGCTGACGCGGAGGACGGCAAAGGCTTCCTGGCCAAAGAGGGCTC
GCTGCTCGCCTTCTCCGCGGCCGAGACGGTGCAGGCTTCGCTCGTCGGGGCTGTCCGAGGGCAAGGGAAAGACGAGTCAA
AGGTGGAAGACGACCCGAAGGGCAAGGAGGAGAGCTTCTCGCTGGAGAGCGATGTGGACTACAGCTCGGATGACAATCTG
ACTGGCCAGGCAGCTCACAAGGAGGAAGACCCGGGCCACGCGCTGGAGGAGACCCCGCCGAGCAGCGGCGCCGCGGGC
AGCACCACGTCTACGGGCAAGAACCGGCGGCGGCGGACTGCCTTCACCAGCGAGCAGCTGCTGGAGCTAGAGAAGGAGT
TCCACTGCAAAAAGTACCTCTCCTTGACCGAGCGCTCGCAGATCGCCCACGCCCTCAAACTCAGCGAGGTGCAGGTGAAAA
TCTGGTTCCAGAACCGACGGGCCAAGTGGAAACGGGTGAAGGCAGGCAATGCCAATTCCAAGACAGGGGAGCCCTCCCGG
AACCCTAAGATCGTCGTCCCCATCCCTGTCCACGTCAGCAGGTTCGCTATCAGAAGTCAGCATCAGCAGCTAGAACAGGCC
CGGCCCTGA

Transaction Sequence

MSAAFPPSLM MMQRPLGSST AFSIDSLIGS PPQPSPGHFV YTGYPMFMPY RPVVLPPPPPPPALPQAAL QPALPPAHPH
HQIPSLPTGF CSSLAQGMAL TSTLMATLPG GFSASPQHQEAAAARKFAPQ PLPGGGNFDK AEALQADAED GKGFLAKEGS
LLAFSAAETV QASLVGAVRGQGKDESKVED DPKGKEESFS LESDVDYSSD DNLTGQAAHK EEDPGHALEE
TPPSSGAAGSTTSTGKNRRR RTAFTSEQLL ELEKEFHCKK YLSLTERSQI AHALKLSEVQ VKIWFQNRRAKWKRVKAGNA
NSKTGEPSRN PKIVVPIPVH VSRFAIRSQH QQLEQARP