

## GBX2 cDNA

Catalog Number: ATGD0322

### PRODUCT INFORMATION

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**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

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**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
GATCGGCAGCCCGCCGAGCCAGCCCGGCCATTTTCGTCTACACCGGCTACCCCATGTTTCATGCCCTACCGGCCGGTAGT
GCTGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCTGCCCGAGGCCGCGCTGCAGCCAGCGCTGCCGCCCGCACACCCTCAC
CACCAGATCCCCAGCCTGCCACAGGCTTCTGCTCCAGCCTGGCGCAGGGCATGGCGCTCACCTCTACGCTCATGGCCACG
CTCCCCGGCGGCTTCTCCGCGTCGCCCCAGCACCAGGAGGCGGCAGCGGCCCGCAAGTTCGCGCCGAGCCGCTGCCCG
GCGGCGGTAACCTTCGACAAGGCGGAGGCGCTGCAGGCTGACGCGGAGGACGGCAAAGGCTTCTGGCCAAAGAGGGGCTC
GCTGCTCGCCTTCTCCGCGGCCGAGACGGTGCAGGCTTCGCTCGTCGGGGCTGTCCGAGGGCAAGGGAAAGACGAGTCAA
AGGTGGAAGACGACCCGAAGGGCAAGGAGGAGAGCTTCTCGCTGGAGAGCGATGTGGACTACAGCTCGGATGACAATCTG
ACTGGCCAGGCAGCTCACAAGGAGGAAGACCCGGGCCACGCGCTGGAGGAGACCCCGCCGAGCAGCGGCGCCGCGGGC
AGCACCACGTCTACGGGCAAGAACC GGCGGCGGACTGCCTTACCAGCGAGCAGCTGCTGGAGCTAGAGAAGGAGT
TCCACTGCAAAAAGTACCTCTCCTTGACCGAGCGCTCGCAGATCGCCACGCCCTCAAACCTCAGCGAGGTGCAGGTGAAAA
TCTGTTCCAGAACCGACGGGCCAAGTGGAAACGGGTGAAGGCAGGCAATGCCAATTCCAAGACAGGGGAGCCCTCCCGG
AACCTAAGATCGTCGTCCCCATCCCTGTCCACGTCAGCAGGTTTCGCTATCAGAAGTCAGCATCAGCAGCTAGAACAGGCC
CGGCCCTGA
```

**Transaction Sequence**

```
MSAAFPPSLM MMQRPLGSST AFSIDSLIGS PPQPSPGHFV YTGYPMPMPY RPVVLPPPPPPPPALPQAAL QPALPPAHPH
HQIPSLPTGF CSSLAQGMAL TSTLMATLPG GFSASPQHQA AAAARKFAPQ PLPGGNFDK AEALQADAED GKGFLAKEGS
LLAFSAAETV QASLVGAVRGQKDESKVED DPKGKEESFS LESDVDYSSD DNLTGQAAHK EEDPGHALEE
TPSSGAAGSTTSTGKNRRR RTAFTSEQLL ELEKEFHCKK YLSLTERSQI AHALKLSEVQ VKIWFQNRRAKWKRVKAGNA
NSKTGEP SRN PKIVVPIPVH VSRFAIRSQH QQLEQARP
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