

Product datasheet for MR226039

Gbx2 (NM_010262) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gbx2 (NM_010262) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gbx2
Synonyms: D130058E05Rik; Gbx-2; MMoxA; Stra7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226039 representing NM_010262
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCGCAGCGTCCCGCCGTCGCTGATGATGATGCAGCGCCCGCTGGGGAGTAGTACCGCCTTCAGCA
 TAGACTCGCTGATCGGCAGCCCGCCGAGCCAGTCCCGGCCATTCGTCTACACCGCTACCCCATGTT
 CATGCCCTACCGCCGGTGGTGTGCCGCCACCGCCACCGCTCCCGCGCTGCCACGGCAGCGCTG
 CAGCCCGCTCTGCCGCCGCGCACCTCACCACAGATCCCAGCCTGCCACCGGCTTCTGCTCCAGCC
 TGGCGCAGGGCATGGCGCTCACCTCCACGCTCATGGCCACTCTGCCCGGGGCTTCTCTGCGTCGCCCCA
 GCACCAAGAGGGCGCGGCTGCCCGCAAGTTCGCTCCACAGCCACTGCCCGGAGGGCGCAACTTCGACAAA
 GCCGAGGCGCTCCAAGCGGATGCGGAAGACGGCAAGCCTTCTTGCCAAAGGAGGGCTCGCTGCTCGCTT
 TCTCTGCGGCCGAAGCGGTGCAGGCGTCGCTCGTCCGGGCTGTCCGAGGGCAAGGAAAGACGAGTCAAA
 GGTGGAAGATGACCCGAAGGGCAAGGAGGAGACTTCTCTGAGAGCGATGTGGATTACAGCTCAGAT
 GACAATTTGCCTGGTCACTGCTCATAAGGAAGAAGACCCCGGCCACGCACTGGAGGAGACCCCGCAGA
 GCGGCGGTGCAGCAGGCAGCACCCAGTCCACAGGAAGAACCAGGCGGGCGGACTGCCTTACCAGCGA
 ACAGCTGCTGGAGCTGGAGAAAGAATCCACTGCAAAAAGTACCTCTCCCTGACCGAGCGCTCACAGATC
 GCCCAGCCCTCAAACCTCAGCGAGGTGCAAGTAAAAATCTGGTTCAGAACCGGGCCCAAGTGGAAAC
 GTGTCAAGGCAGGCAACGCCAATTCGAAGACGGGGAGCCCTCTCGGAACCCCAAGATTGTCGCCCAT
 CCCTGTTACGTTAGCAGGTTTCGCTATTGAAAGTCAACACCAGCAGCTGGAGCAGGCCCGACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226039 representing NM_010262
Red=Cloning site Green=Tags(s)

MSAAFPPSLMMQRPLGSSTAFSIDSLIGSPPQSPGHFVYTGYPMFMPYRPVVLPPPPPPPPALPQAAL
 QPALPPAHPHHQIPSLPTGFCSSLAQGMALTSTLMATLPGGF SASPQHQEAARAFAPQLPGGGNFDK
 AEALQADAEDGKAFLAKEGSLAF SAAEAVQASLVGAVRGQKDESKVEDDPKGKEESFLESVDVYSSD
 DNLPGQTAHKEEDPGHALEETPQSGGAAGSTTSTGKNRRRRRTAFTSEQLLELEKEFHCKYLSLTERSQI
 AHALKLSEVQVKIWFQNRRAKWKRVKAGNANSKTGEPSRNPKIVVPIPVHVSRAIRSQHQLEQARP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_010262

ORF Size: 1044 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:

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_010262.3](#), [NP_034392.1](#)

RefSeq Size: 2126 bp

RefSeq ORF: 1047 bp

Locus ID: 14472

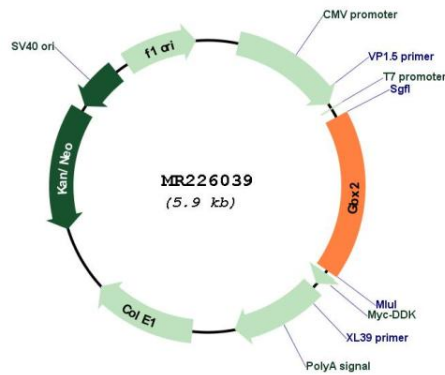
UniProt ID: [P48031](#)

Cytogenetics: 1 45.06 cM

MW: 37.8 kDa

Gene Summary: May act as a transcription factor for cell pluripotency and differentiation in the embryo. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226039