

Product datasheet for MR226173

Emx2 (NM_010132) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Emx2 (NM_010132) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Emx2
Synonyms:	Pdo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226173 representing NM_010132 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGCGCGCCCAAGCGCTGCTTCACCATCGAGTCGCTGGTGGCCAAGGACAGTCCCCTGCCTG
CCTCGCGCTCCGAGGATCCCATCCGTCCCGCGGCACTCAGCTACGCCAATTCAGTCCCATAAATCCGTT
CCTCAACGGCTTCCACTCGGCCCGCCGCCGCCGCCGCCGCGCAGGGCGTCTACTCCAACCCGGACTTG
GTGTTCCGCGAGGCGGTCTCGCACCCGCCCAACCCGCCGTGCCGGTGCACCCGGTGCCCGCCCGCAGC
CCCTGGCCGCCACCCCTGCCCTCCTCGATTGCCACACCCCTCTTCGCCTCGCAGCAGCGGGACCC
GTCCACCTTCTACCCCTGGCTCATCCACCGCTACCGATATCTGGGTATCGCTTCCAAGGGAACGACACA
AGTCCCGAGAGTTTCTTTTGCACAACGCTCTGGCCAGAAAGCCAAAGCGGATTCGAACCGCTTCTCGC
CGTCCCAGCTTTTAAGGCTAGAGCACGCTTTTGAAGAACCATTACGTGGTGGGAGCGGAAAGGAAGCA
GCTGGCTCACAGTCTCAGTCTTACGAAACTCAGGTAAAAGTATGGTTTCAGAACCGGAGAACGAAATTC
AAAAGGCAAAAGCTAGAGGAAGAAGGCTCAGATTCTCAACAGAAGAAAAAGGGACACACCACATTAACC
GGTGGAGAATTGCTACCAAGCAGGCGAGTCCGGAGGAAATAGATGTGACCTCAGACGAT

ACGCGTACGCGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226173 representing NM_010132
 Red=Cloning site Green=Tags(s)

MFQPAPKRCFTIESLVAKDSPLPASRSEDPIRPAALSYANSSPINPFLNGFHSAAAAAAAGRGVYSNPDL
 VFAEAVSHPPNPVAVPVHPVPPPHALAAHPLPSSHSPHPLFASQQRDPSTFYFYLHRYRYLGHFRFQGN
 DTSPEFLLHNLARKPKRIRTAFAFSPQLLRLEHAFKKNHYVVGAEKRLAHSLSLTETQVKVWFQNRRTKF
 KRQKLEEEGSDSQKKKGTHHINRWRIATKQASPEEIDVTSDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010132

ORF Size: 759 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_010132.2](#), [NP_034262.2](#)

RefSeq Size: 2598 bp

RefSeq ORF: 762 bp

Locus ID: 13797

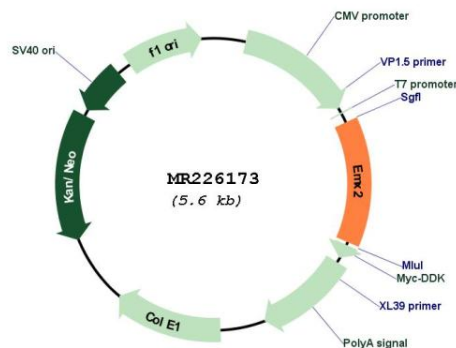
UniProt ID: [Q04744](#)

Cytogenetics: 19 56.28 cM

MW: 28.8 kDa

Gene Summary: Transcription factor, which in cooperation with EMX2, acts to generate the boundary between the roof and archipallium in the developing brain. May function in combinations with OTX1/2 to specify cell fates in the developing central nervous system.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226173