

## Product datasheet for **MG226173**

### Emx2 (NM\_010132) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Emx2 (NM_010132) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Emx2
Synonyms:	Pdo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226173 representing NM_010132 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCAGCGGCGCCCAAGCGCTGCTTCACCATCGAGTCGCTGGTGGCCAAGGACAGTCCCCTGCCTG  
CCTCGCGCTCCGAGGATCCCATCCGTCCCGCGGCACTCAGCTACGCCAATTCAGTCCCATAAATCCGTT  
CCTCAACGGCTTCCACTCGGCCCGCCGCCGCCGCCGCCGCGCAGGGCGTCTACTCCAACCCGGACTTG  
GTGTTCCGCGAGGCGGTCTCGCACCCGCCAACCCGCCGTGCCGGTGCACCCGGTGCCCGCCGCACG  
CCCTGGCCGCCACCCCTGCCCTCCTCGATTGCCACACCCCTCTTCGCCTCGCAGCAGCGGGACCC  
GTCCACCTTCTACCCCTGGCTCATCCACCGCTACCGATATCTGGGTTCATCGCTTCCAAGGGAACGACACA  
AGTCCCGAGAGTTTCTTTTGCACAACGCTCTGGCCAGAAAGCCAAGCGGATTGCAACCCGCTTCTCGC  
CGTCCCAGCTTTTAAGGCTAGAGCACGCTTTTGAAGAAGCAATTACGTGGTGGGAGCGGAAAGGAAGCA  
GCTGGCTCACAGTCTCAGTCTTACGAAACTCAGGTAAGTATGGTTTCAGAACCGGAGAACGAAATTC  
AAAAGGCAAAAGCTAGAGGAAGAAGGCTCAGATTCTCAACAGAAGAAAAAGGGACACACCACATTAACC  
GGTGGAGAATTGCTACCAAGCAGGCGAGTCCGGAGGAAATAGATGTGACCTCAGACGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226173 representing NM\_010132  
Red=Cloning site Green=Tags(s)

MFQPAPKRCFTIESLVAKDSPLPASSEDPIRPAALSYANSSPINPFLNGFHSAAAAAAGRGVYSNPDL  
 VFAEAVSHPPNPVAVPVHPVPPHALAAHPLPSSHSPHPLFASQQRDPSTFYFWL IHRVRYLGHFRQGN  
 DTSPEFLLHNALARKPKRIRTAFAFSPQLLRLEHAFEKNHYVVGAEKQLAHSLSL TETQVKVWFQNRRTKF  
 KRQKLEEEGSDSQKKKGTHHINRWRIATKQASPEEIDVTSDD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

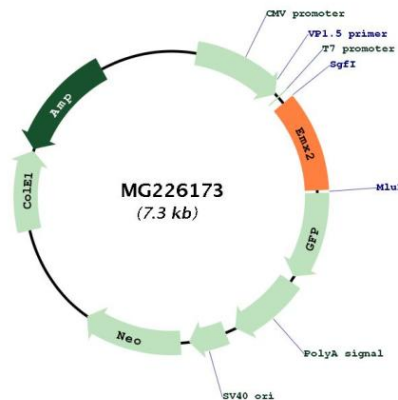
**Locus ID:** 13797

**UniProt ID:** [Q04744](#)

**Cytogenetics:** 19 56.28 cM

**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 MG226173