

## Product datasheet for **MG222943**

### Emx1 (NM\_010131) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Emx1 (NM\_010131) Mouse Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: Emx1  
 Synonyms: MGC129284; MGC129285  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >MG222943 representing NM\_010131  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTCCAGCCC**CGGCTAAGCGGGTTTCACCATAGAGTCCTTGGTGGCCAAGGATGGTGGCACC**GGCG  
 GGAGTCTTGGCAGCGGGGGCGGGCTCCCATCCACTGGCTGTGGCCGCATCAGAGGAACCGCTCAGGCC  
 CACGGCGCTCAACTATCCTCACCCAGTGC**GGCCGAGACGGCCTTCGTGAGTGGCTTCCCTGCCGTGCC**  
 GCTGCGGGCGCCGGCGCTCGTCTATGGAGGGCCGAGCTGGTGTCCAGAGGCCATGAACCACCGG  
 CTCTGACGGTGCACCCGGCACACCAGCTGGGCTCCTCCTCGTGAACCCCTCACTCTTTCTTCAGCGC  
 CCAGCATCGGGACCCTCTCCACTTCTACCCCTGGGTGCTTCGGAATCGCTTCTTTGGCCACCGCTTCCAG  
 GCAAGCGACGTTCCCCAGGACGGGTGCTTTTGCACGGGCCCTTCGCACGCAAGCCAAGCGGATTCCGA  
 CAGCCTTCTCGCCCTCGCAGCTGCTGCGGCTGGAGCGAGCCTTTGAGAAGAATCACTACGTGGTGGGAGC  
 CGAGCGGAAGCAGCTGGCAGGCAGCCTCAGCCTCTCCGAGACGCAGGTGAAGGTGTGGTTCCAGAATCGG  
 AGGACAAAATACAAACGGCAGAAGCTGGAAGAGGAAGGGCCGGAGTCTGAGCAGAAGAAGAAGGGTTCC  
 ACCATATCAACCGGTGGCGCATCGCCACGAAGCAGGCCAACGGGGAGGACATTGATGTCACTCCAATGA  
 C

AC**CGCT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222943 representing NM\_010131  
Red=Cloning site Green=Tags(s)

MFQPAAKRGFTIESLVAKDGGTGGSPGSGGAGSHPLAVAASEEPLRPTALNYPHPSAAETAFVSGFPAAA  
 AAGAGRSLYGGPELVFPEAMNHPALTVHPAQLGSSSLQPPHSFFSAQHRDPLHFYPWVLRNRRFFGHRFQ  
 ASDVPQDGLLLHGPFARKPKRIRTAFFSPSQLRLERAFKKNHYVVGAEKQLAGSLSLSETQVKVWFQNR  
 RTKYKRQKLEEEGPESEQKKKGSHHINRWRIATKQANGEDIDVTSND

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1205\\_c07.zip](https://cdn.origene.com/chromatograms/ja1205_c07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010131

**ORF Size:** 771 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\\_010131.2](#), [NP\\_034261.1](#)

**RefSeq Size:** 1188 bp

**RefSeq ORF:** 774 bp

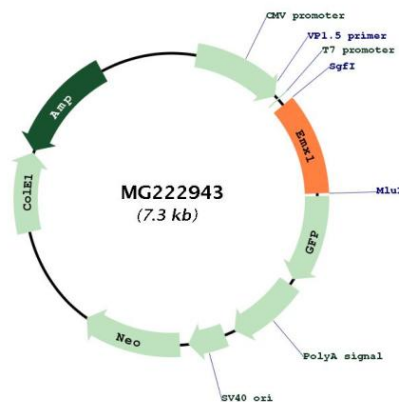
**Locus ID:** 13796

**UniProt ID:** [Q04742](#)

**Cytogenetics:** 6 37.21 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 MG222943