

Product datasheet for **RC222758**

EMX2 (NM_004098) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMX2 (NM_004098) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EMX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222758 representing NM_004098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCAGCCGGCGCCCAAGCGCTGCTTACCATCGAGTCGCTGGTGGCCAAGGACAGTCCCCTGCCCC
CCTCGCGCTCCGAGGACCCATCCGTCCCGCGCACTCAGCTACGCTAACTCCAGCCCCATAATCCGTT
CCTCAACGGCTTCCACTCGGCCCGCCGCCCGCCGGTAGGGGCGTCTACTCCAACCCGGACTTGGTG
TTCGCCGAGCGGTCTCGCACCCGCCCAACCCCGCCGTGCCAGTGCACCCGGTGCCGCCCGCACGCC
TGGCCGCCACCCCTACCCTCCTCGCACTCGCCACACCCCTATTCGCCTCGCAGCAGCGGGATCCGTC
CACCTTCTACCCCTGGCTCATCCACCGCTACCGATATCTGGGTATCGCTTCCAAGGGAACGACTAGC
CCCGAGAGTTTCTTTTGCACAACGCGCTGGCCCGAAAGCCCAAGCGGATCCGAACCGCCTTCTCCCGT
CCCAGCTTCTAAGGCTGGAACACGCCTTTGAGAAGAATCACTACGTGGTGGGCGCCGAAAGGAAGCAGCT
GGCACACAGCCTCAGCCTCACGAAACTCAGGTAAGTATGGTTTCAGAACCGAAGAACAAGTTCAA
AGGCAGAAGCTGGAGGAAGAAGGCTCAGATTCGCAACAAAAGAAAAAGGGACGCACCATATTACCGGT
GGAGAATCGCCACCAAGCAGGCGAGTCCGGAGGAAATAGACGTGACCTCAGATGAT

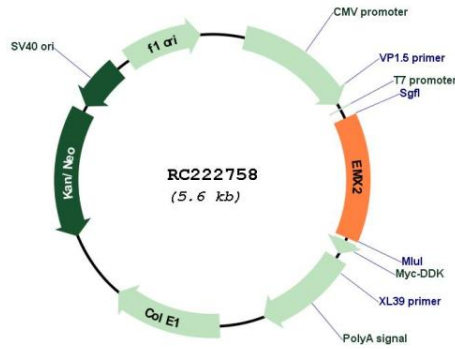
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



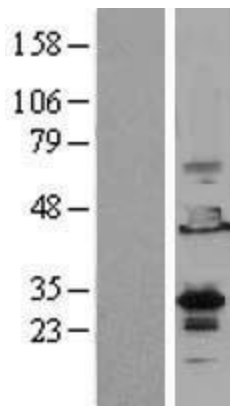
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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. 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_004098.4
RefSeq Size:	2907 bp
RefSeq ORF:	759 bp
Locus ID:	2018
UniProt ID:	Q04743
Cytogenetics:	10q26.11
Protein Families:	Druggable Genome
MW:	28.1 kDa
Gene Summary:	This gene encodes a homeobox-containing transcription factor that is the homolog to the 'empty spiracles' gene in Drosophila. Research on this gene in humans has focused on its expression in three tissues: dorsal telencephalon, olfactory neuroepithelium, and urogenital system. It is expressed in the dorsal telencephalon during development in a low rostral-lateral to high caudal-medial gradient and is proposed to pattern the neocortex into defined functional areas. It is also expressed in embryonic and adult olfactory neuroepithelia where it complexes with eukaryotic translation initiation factor 4E (eIF4E) and possibly regulates mRNA transport or translation. In the developing urogenital system, it is expressed in epithelial tissues and is negatively regulated by HOXA10. Alternative splicing results in multiple transcript variants encoding distinct proteins.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RC222758



Western blot validation of overexpression lysate (Cat# [LY401323]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222758 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).