

## Product datasheet for RC212606

### MNX1 (NM\_005515) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MNX1 (NM\_005515) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MNX1  
**Synonyms:** HB9; HLXB9; HOXHB9; SCRA1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC212606 representing NM\_005515  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAAATCCAAAAATTTCCGCATCGACGCCCTGCTGGCGGTGGACCCCCACGAGCCGCTCTGCGC  
 AGAGCGCGCCGCTGGCCTTGGTCACGTCGCTCGCCGCCGCCGATCTGGCACCGGAGGTGGCGGCGCGG  
 CGGCGGGCGAGCGGGGACTAGCGGCAGCTGCAGCCCCGCGTCTCGGAGCCCGCGGTGCGCCCGCC  
 GACCGCCTGCGCGCCGAGAGCCCGTCCCGCCCGCCTGCTGGCCGCGCACTGCGCGCTGCTGCCAAGC  
 CGGGCTTCTGGCGCGGGCGGGCGGGCGGCACGGCGGGCGGGCACGGGGGGCCCCACCACCACGC  
 GCATCCGGGCGCAGCGGCCGCTGCCGCCGCCGCCGCCGCCGCCGCCGCTGGGGGCTGGCGCTGGGG  
 CTGCACCCTGGGGGCGCGCAGGGCGGCGGGCCCTCCCGCGCAGGGCGGGCTCTACGGCACCCGGTCT  
 ACGGCTACTCCGCGGGCGGCGGGCGGGCTGCGCTGGCGGGCCAGCACCCGGCGCTCTCTACTCGTACCC  
 GCAGGTGCAAGGCGCGCACCCCGCGCACCCCGCCGACCCCATCAAGCTGGGCGCCGGCACCTTCCAGCTG  
 GACCAGTGGTGCAGCGCTCCACCGGGCATGATCCTGCCTAAGATGCCGACTTCAACTCCAGGCGC  
 AGTCGAACCTCTGGGAAGTGCCGCGGCCCGCGCACCCGCTTACCAGCCAGCAGCTGCTGGAGCTGGA  
 GCACCAGTTCAAGCTCAACAAGTACCTGTCGGGCCAAGCGCTTCGAGGTGGCCACCTCGCTCATGCTC  
 ACCGAGACCCAGGTGAAGATTTGGTCCAGAACCGGCGGATGAAATGAAACGACGAAAAAGGCCAAAG  
 AGCAGGCGGCGCAGGAAGCGGAGAAACAGAAGGGCGGCGGGGGCGCGGGGAAGGGCGGCGGAGGA  
 GCCGGGAGCCGAGGAGCTGCTGGGGCGCCAGCGCCCGGAGACAAGGGCAGCGGACGCGCCTGCGGGAC  
 TTGAGGGACAGTGACCCGAGGAGGACGAGGACGAGGACGAGGACCATTTCCCTACAGCAACGGCG  
 CCAGCGTCCACGCCGCTCCTCCGACTGCTCCTCGGAGGACGACTCGCCGCCCGCGGCCAGCCACCA  
 GCCCGCGCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC212606 representing NM\_005515  
Red=Cloning site Green=Tags(s)

MEKSKNFRIDALLAVDPPRAASAQSAPLALVTSLAAAASGTGGGGGGGASGGTSGSCSPASSEPPAAPA  
 DRLRAESPPRLLAAHCALLPKPGFLGAGGGGGTGGGHGPPHHHAHPGAAAAAAAAAAGGLALG  
 LHPGGAQGGAGLPAQAALYGHVPVYGYSAAAAAALAGQHPALSYSYPQVQGAHPADP IKLGAGTFQL  
 DQWLRASTAGMILPKMPDFNSQAQSNLLGKCRRPRTAFTSQQLLELEHQFKLNKYL SRPKRFEVATSLML  
 TETQVKIWFQNRMRKWKRSKKAKEQAQAEKQKGGGGGAGKGGAEPGAELLGPPAPGDKGSGRRLRD  
 LRDSDP EDEDEDEDFPYSNGASVHAASDCSSEDDSPPPRPSHQPAPO

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8121\\_a12.zip](https://cdn.origene.com/chromatograms/mk8121_a12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005515

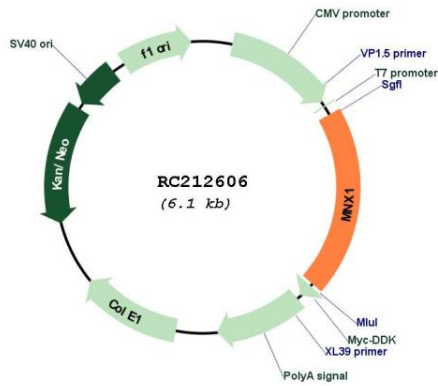
**ORF Size:** 1203 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

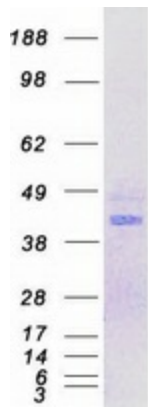
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005515.4</a>
<b>RefSeq Size:</b>	2176 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	3110
<b>UniProt ID:</b>	<a href="#">P50219</a>
<b>Cytogenetics:</b>	7q36.3
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Protein Pathways:</b>	Maturity onset diabetes of the young
<b>MW:</b>	40.57 kDa
<b>Gene Summary:</b>	This gene encodes a nuclear protein, which contains a homeobox domain and is a transcription factor. Mutations in this gene result in Currarino syndrome, an autosomic dominant congenital malformation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC212606



Coomassie blue staining of purified MNX1 protein (Cat# [TP312606]). The protein was produced from HEK293T cells transfected with MNX1 cDNA clone (Cat# RC212606) using MegaTran 2.0 (Cat# [TT210002]).