

## Product datasheet for **RG212606**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MNX1 (NM\_005515) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MNX1  
**Synonyms:** HB9; HLXB9; HOXHB9; SCRA1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212606 representing NM\_005515  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAAATCCAAAAATTTCCGCATCGACGCCCTGCTGGCGGTGGACCCCCACGAGCCGCCTCTGCGC  
 AGAGCGCGCCGCTGGCCTTGGTCACGTCGCTCGCCGCCGCCGATCTGGCACGGAGGTGGCGGCGGCG  
 CGGCGGGCGAGCGGGGACTAGCGGCAGCTGCAGCCCCGCTCCTCGGAGCCCGCGGCTGCGCCCGCC  
 GACCGCCTGCGCGCCGAGAGCCCGTCCCGCCCGCCTGCTGGCCGCGCACTGCGCGCTGCTGCCAAGC  
 CGGGCTTCTGGCGCGGGCGGGCGGGCGGCACGGCGGGCGGGCACGGGGGCCCCACCACCACGC  
 GCATCCGGGCGCACGGGCCGCTGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCC  
 CTGGGGCTGCACCTGGGGCGCGCAGGGCGGGCGGGCCTCCCGCGCAGGGCGGCGCTCTACGGCCACC  
 CGGTCTACGGCTACTCCGCGGGCGGGCGGGCGGGCTGCGCTGGCGGGCCAGCACCCGGCGCTCTCCTACTC  
 GTACCCGAGGTGCAAGGCGCGCACCCCGCGCACCCCGCGCACCCCATCAAGCTGGGCGCCGGCACCTTC  
 CAGCTGGACCAAGTGGCTGCGCGGTCCACCGGGGATGATCCTGCCTAAGATGCCCGACTTCAACTCCC  
 AGGCGCAGTCGAACCTCCTGGGAAGTCCCGCCGGCCGCGCACCCCTTACCAGCCAGCAGCTGCTGGA  
 GCTGGAGCACCAGTTCAAGCTCAACAAGTACCTGTCGCGGCCAAAGCGCTTCGAGGTGGCCACCTCGCTC  
 ATGCTCACCGAGACCCAGGTGAAGATTTGGTTCCAGAACCAGCGGATGAAATGAAACAGCAAAAAGG  
 CCAAAGAGCAGGCGGCGCAGGAAGCGGAGAAACAGAAGGCGGGCGGGGGCGGGGAAAGGCGGGCGC  
 GGAGGAGCCGGGAGCCGAGGAGCTGCTGGGGCCCGCAGCGCCCGAGACAAAGGCAGCGGACGCCGCTG  
 CGGGACTTGAGGGACAGTGACCCCGAGGAGGACGAGGACGAGGACGACGAGGACCATTTCCCTACAGCA  
 ACGGCGCCAGCGTCCACGCCCTCCTCCGACTGCTCCTCGGAGGACGACTCGCCGCCCGCGGCCAG  
 CCACCAGCCCGGCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212606 representing NM\_005515  
 Red=Cloning site Green=Tags(s)

```
MEKSKNFRIDALLAVDPPRAASAQSAPLALVTSLAAAASGTGGGGGGGASGGTSGSCSPASSEPPAAPA
DRLRAESPPRLLAAHCALLPKPGFLGAGGGGGTGGGHGPPHHHAHPGAAAAAAGGLA
LGLHPGGAQGGAGLPAQAALYGHVPVYGYAAAAAALAGQHPALSYSYPVQGAHPADPIKLGAGTF
QLDQWLRASTAGMILPKMPDFNSQAQSNLLGKCRRPRTAFTSQQLLELEHQFKLNKYL SRPKRFEVATSL
MLTETQVKIWFQNRMMKWKRSKKAKEQAAQEA EKQKGGGGGAGKGGAE EPGAEELLGPPAPGDKGSGRRL
RDLRDSDEDEDEDEDEDFPYSNGASVHAASSDCSSEDDSPPPRPSHQAPQ
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005515

**ORF Size:** 1209 bp

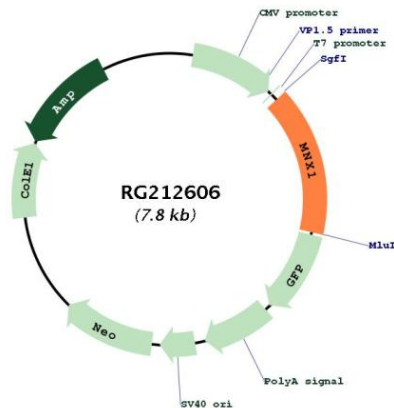
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](#)

**OTI Annotation:** 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>	<u>NM_005515.2, NP_005506.2</u>
<b>RefSeq Size:</b>	2176 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	3110
<b>UniProt ID:</b>	<u>P50219</u>
<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>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 RG212606