

Product datasheet for **MC224193**

Mn1 (NM_001081235) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mn1 (NM_001081235) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mn1
Synonyms:	AA003644; AA009236
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224193 representing NM_001081235 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTGGGCTGGACCAATTCGAGCCCCAGATCAACAGCCGGCACGCTGGTCAGGGCGAGGGGAACCTTTA
ACGAAGCCGGACTGAGCATGAACGCCACTTTAAGGCTCCTGCCTCCACGCCGGGCCTCTACTGGCCC
CGTGGACCCTGCAATAAGCGCTCTGGGCGAACCCCGATCTTGGGCTTGAACATGGAGCCCTACGGCTTT
CATGCGCGCAGCCACTCCGAGCTGCACGCAGGGGGGCTGCAGGCGCAGCCTGTGCATGGCTTCTTCGGCG
GTCAGCAGCCTCACCACAGCCATCCCGGAGGCCATCACCCGCACCAGCATCACCCCACTTTGGGGGCAA
CTTCGGTGGTCCGGATCCAGGTGCCTCATGTCTGCACGGGGGCCGCTGCTTGGCTACGGAGGTGCAGCG
GGCGGCCCTGGGCAGCCAGCCTCCCTTCGAGAGAGTTATGAGCACATGGCGGAGAGCCAGGGGCCGAGG
GCTTCGGCCCGCAGCGGCCAGGAAACCTCCCGACTTCCATAGTTCGGGCACCTCGGGCCACGCCGTGCC
TGCCCCGTGCCTGCCTCTGGACCAGAGCCCTAACCGGGCTGCCTCTTTTACGGCCTGTCCGCCTCTAGC
GGCTCGGATTCTCACAGCCTGGAGCCCCGAGGGTGACGAACCAAGGAGCCGTAGATTCCCTGGAATACA
ATTACCGAGCGAGCCGCCCTCAGGACATTTTGACATGTTTTACCCTCTGACTCTGAAGGCGAGCTGCC
ACATTATGCTGCGGGTCGCCAGGTTCCCGGGGGCGCTTTCCCGGGTGCTTCTGCCATGCCTAGAGCCTCA
GGCATGGTGGGTTTGCCAAAATGCACAGCCAGCCACCCAGCCGCTCCACAACAGCAGCAACCCGAGC
ACGGAGTGTTCTTCGAGAGGTTTGGCGGGGCCGAAAGATGCCTGTGGGTCTGGAGCCTGCAGTGGGCTC
CAGGCACCCGCTAATGCAGCCTCCCGAGCAGGCCACCACCCCGCAGCAGCCGCCCCGAGCAGCAG
CCGCCGCCACCGGACTTCTGGTTCGACAGAATTCTTGCCCTCCTGCGCTCCCGCGGCCCCAGCAGGGTG
AGGCTGGCACACCCAGTGGCGCCTGCAGGACGGGGGCCCATGTGCCAGTCAACATGCTCAGTTCGA
GTATCCCATCCATCGCTAGAGAACCGGAGCATGCACCCATATTCTGAGCCTGTCTTCAGCATGCAGCAT
CCCCCTCCTCAGCAGGCGCCCAACCAGAGGCTGCAGCATTTTCGATGCGCCCCCTTACATGAACGTGGCCA
AGAGGCCGCGTTTGACTTTCGGGCAGCGCAGGCGTGGACCGCTGCGCCTCGTGAATGGCAGCATGCA
TAACGGTACCCTAGACAACCAACTCTCTCCTCTGCCTACCCAGGCCTCCAGGCGAGTTCACACCGCT



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GTGCCGGACAGCTTTTCCTCGGGACCACCTTGCAGCACCCGGGGCCGGACCACAGTCCCTGCAGCAGC
 AGCAGCAGCAGCAACAACAGCAGCAGCAGCAGCAACAACAGCAGCAACAGCAGCAGCAGCAACAGCA
 ACGCCAGAATGCGGCCCTCATGATTAACAGATGGCGTCCCGAACAGCAGCAGCGGTTGCGACAGCCC
 AACCTGGCCAGCTAGGCCATCTGGGGACGTGGGCCAGGGCGGCCTGGTCCACGGAGGTTCCGTGGGCG
 GCTTGGCCAGACGAACCTTGGCGCGAAGGGGGCAGCGCAGGTGCCGGGCGCCTGAGTGGCTTTGAGCA
 GCAGGCGCCCCACCTGGCGCAGGAGAGCGCGTGGTTCCCGGGTCCACACCCTCCCGGCGACCTGCTGCCC
 CGGAGGATGGGCGGCGGGGTTGCCGACTGACTGCGGCCCGCAGCACCTGCTCTGGCGCCTCCCCCTG
 CTCAGGTGGCTCAGGGGTGCTTTCCGAGGCTCTTTCAGGAGCCTCTGAGGATGCCAGGAGAAGGCCA
 CGTGCCCGCACTGGCCTCGCCCGGGCTGCAGTTTGGGGGCAGCTTAGCTGGCCTAGGCCAGTTGCAGTCG
 CCCGGTCCGGTGTGGGACTGCCAAACGCTCCGTGCGAGCGACGGCCTCCGCCTCCGGACTTCCCGCGCG
 CAGCTCTCGGGGCCAGCCGGGCTTTCATTGGTTAGGCAGCCGGCAGGCCACTCCGCACAGCGCTCC
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 CCAGATTTCAACCCAGCCAGCGCAACTCGGCCAGTAAGCTGGGCGCACTGTCGTTGGGGTCTTTCAACA
 AGCCAGCTCTAAGGACAACCTGTTCCGCCAGAGCTGCCTGGCTGCGCTCTCCACTGCTTCCAGAACAT
 GATTGCCAGCCTGGGTGCTCCTAACCTCAACGTGACTTTCAACAAGAAGAACCCACCCGAGGGGAAGAGG
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 GGACTACTCTGGGGCCCTGGACCCGGAGGCCCTTCCGGGACCAGTGGTGGTGGCTCCAAGCCTCAGG
 ACCGCCAACCCCTCCCATCCAGGGGACAGCACAGTCTCTCCCCAATTATACCTGGAATCAACGTGCG
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 CCCGGGCGCAGCAGGCTCCTGGCTCAGCCGCTGGGGGAAGCTCAGTGAACGAGGCCGAGGCCCCACA
 CCCCATGAGAAGGCCCTTACGTCCCCATCGTGGGGCAAAGGAGCCGAGCTTCTCCTTGGGACCAGCCGG
 ACCTCATGGCGTCCCTGGACAGCACAGCCAAATCAGATGGTAGTTCCCGCACGTGGGTGAGTTGCCTC
 TGATGAGGTGAGCACAAGTTATGCGAACGAGGACGAAGTGTATCCAGTTCTGACAACTACAGCCCTG
 GCCAAAGCCAGCCGAAGTCCCCTGGTGACCAGCTCACCGAACTCCCTCCTCGAGGGGTGGGCGCTGGGG
 AACACACACCGAAGGCTTCCGCCCTGGGCTGGGCATCCTGTCTACCTCTACCTCAACCCCTGACAGCTA
 TGGTGGGGGCGTGGGACCGGACATCCCGGCACACAGGCCTGGAGCAGGTCCGGACCCCAACGAGCAGC
 AGCGGTGCGCAGCCTCCTGACGAGATTCATCCCTGGAGATCCTCAAGCCAGATCCAGCTGCAGAGAC
 AACATTTAGCATCTCGGAGGACCAGCCCTGGGGCTCAAGGGCAGCAAAAAAGCCGAGTGTGCTGTAGG
 GGCTCAGGAGCACAGAACGGTGACAGCGAGTTGGGTAGCTGCTGCTCCGAGCAGTCAAGAGCGCCATG
 AGTACTATCGACCTGGACTCCCTGATGGCAGAACACAGCACTACCTGGTACATGCCACCTGACAAGGCC
 TGGTGGATGGTGGAGATGAGGACAAGACGCTGGCGCCCTGGGAGAAGGCCAAGTCCAGAACCCCAACA
 CAAAGAAGCCCATGACCACCCACCAACAGGCCTCAGCCACCCAGCCCGGCGAGCCACCTGCAGTGCCTG
 ACTGTCCACTGCACAGATGGTGACCCCAAGGCCCGCACCTCCGTACCCACCTGGCGGTCTCTGCACTCTG
 ATATCTCAACCGATTGGGACATTTGTGGCCGCCCTGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001081235
Insert Size:	3894 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001081235.1](#), [NP_001074704.1](#)

RefSeq Size: 6128 bp

RefSeq ORF: 3894 bp

Locus ID: 433938

UniProt ID: [D3YWE6](#)

Cytogenetics: 5 53.86 cM

Gene Summary: Transcriptional activator which specifically regulates expression of TBX22 in the posterior region of the developing palate (PubMed:18948418). Required during later stages of palate development for normal growth and medial fusion of the palatal shelves (PubMed:18948418). Promotes maturation and normal function of calvarial osteoblasts, including expression of the osteoclastogenic cytokine TNFSF11/RANKL (PubMed:19386590). Necessary for normal development of the membranous bones of the skull (PubMed:15870292). May play a role in tumor suppression (By similarity).[UniProtKB/Swiss-Prot Function]