

Product datasheet for **MC209434**

Sox7 (NM_011446) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox7 (NM_011446) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sox7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC209434 representing NM_011446 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCTCGTGTGCTGGGCGCCTATCCGTGGACCGAGGGACTGGAGTGTCCCGCCCTGGAAGCCGAGCTGT
CGGATGGGCTGTCGCGCCCGCCGCTCCCCGACCTTCAGGGGACAAGAGTTCGGAAGCCGGATCCGGCG
GCCCATGAATGCCTTCATGGTGTGGCCCAAGGATGAGAGGAAACGCTGGCAGTGCAGAACCCGGACCTG
CACAACGCGGAGCTCAGCAAGATGCTGGGAAAGTCATGGAAGGCGCTGACACTGTCCAGAAAGAGACCCT
ATGTGGATGAGGCAGAGCGGCTGCGCCTGCAGCACATGCAGGATTACCCCAACTACAAGTACCGGCCCG
CAGGAAGAAACAAGGCAAGCGCCTCTGCAAGCGGTGGACCCTGGCTTCCTCCTCAGCTCCCTCTCTCGT
GACCAGAACACGCTGCCTGAGAAAAACGGCATTGGCAGGGGGGAGAAGGAGGACAGGGGTGAGTACTCCC
CAGGGGCCACCTTGCTGGACTGCACAGCTGTACCGGAAGGTGCAGCTGTGCCCTGGCAGTGTGGA
CACGTATCCCTACGGGCTGCCACACCTCCGGAGATGTCGCCCTGGATGCGCTGGAGCCAGAGCAGACC
TTCTTCTCGTCTCATGTGAGGAGGAGCATGGTACCCCCATCACCTCCCCATCTACCAGGGCCCCCTT
ACTCACGGGATTCACACCTAGTCCCCTCCACTGCAGCCACCCTTAGGTTCTTTAGCCCTTGCCCAATC
CCCAGGGTTCATGATGTCCTGTCTGTTCTGGATGTCCCCATCTCCAGCCTATTACTCCCATGCCACC
TACCACCTCTCCACCCCAACCTCCAGGCCACCTGGGCCAGCTGTCCCACCTCCGGAGCACCTGGCT
TTGACACCTTGGATCAGCTAAGCCAGGTGGAATCTGGGAGACATGGATCGCAATGAATTTGATCAGTA
TTTGAACACTCCCGGCCACCTGACTCTGCTGCAGGGGTGGAACCTCACTGGGCATGTCCCGCTCTCC
CAGGGGACTCCCACAGGCCCTACAGAGACCAGCCTCATCTCAGTCTGGCTGATGCCACGGCCACGTATT
ACAACAGCTACAGTGTGCAT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_011446



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Insert Size:	1143 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:	<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:	<u>NM_011446.1</u> , <u>NP_035576.1</u>
RefSeq Size:	3266 bp
RefSeq ORF:	1143 bp
Locus ID:	20680
UniProt ID:	<u>P40646</u>
Cytogenetics:	14 D1
Gene Summary:	Binds to and activates the CDH5 promoter, hence plays a role in the transcriptional regulation of genes expressed in the hemogenic endothelium and blocks further differentiation into blood precursors. May be required for the survival of both hematopoietic and endothelial precursors during specification. May play a role in skeletal myogenesis and up-regulate the expression of muscle markers, such as PAX3/PAX7 and Meox1. Competes with GATA4 for binding and activation of the FGF3 promoter. Represses Wnt/beta-catenin-stimulated transcription. Probably acts by targeting CTNNB1 to proteasomal degradation. Binds the DNA sequence 5'-AACAAAT-3'. <small>[UniProtKB/Swiss-Prot Function]</small>