

Product datasheet for **MG223853**

Sox7 (NM_011446) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sox7 (NM_011446) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sox7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223853 representing NM_011446
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCGTGCTGGGCGCCTATCCGTGGACCGAGGGACTGGAGTGTCCCGCCCTGGAAGCCGAGCTGT
CGGATGGGCTGTCGCGGCCCGCCGTCCCCGACCTTCAGGGGACAAGAGTTCGGAAAGCCGGATCCGGCG
GCCCATGAATGCCTTCATGGTGTGGGCAAGGATGAGAGGAAACGCTCTGGCAGTGCAGAACC CGGACCTG
CACAACGCGGAGCTCAGCAAGATGCTGGGAAAGTCATGGAAGGCGCTGACACTGTCCAGAAGAGACCTG
ATGTGGATGAGGCAGAGCGGCTGCGCTGCAGCACATGCAGGATTACCCAACTACAAGTACCGGCCCG
CAGGAAGAAACAAGGCAAGCGCCTTGCAAGCGGTGGACCCTGGCTTCCTCCTCAGCTCCCTCTCTCGT
GACCAGAACACGCTGCCTGAGAAAAACGGCATTGGCAGGGGGGAGAAGGAGGACAGGGGTGAGTACTCC
CAGGGGCCACCTTGCTGGACTGCACAGCTGCTACCGGAAGGTGCAGCTGCTGCCCTGGCAGTGTGGA
CACGTATCCCTACGGGTGCCACACCTCCGGAGATGTCGCCCTGGATGCGCTGGAGCCAGAGCAGACC
TTCTTCTCGTCTCATGTGAGGAGGAGCATGGTACCCCCATCACCTCCCCATCTACCAGGGCCCCCTT
ACTACCGGAGTTCACACCTAGTCCCCTCCACTGCAGCCACCCTCTAGGTTCTTTAGCCCTTGCCAAATC
CCCAGGGTTTCTATGATGTCCTCTGTTTCTGGATGTCCCCATCTCCAGCCTATTACTCCCATGCCACC
TACCACCTCTCCACCCAACTCCAGGCCACCTGGGCCAGCTGTCCCACCTCCGGAGCACCTGGCT
TTGACACCTTGGATCAGCTAAGCCAGGTGGAATCTCTGGGAGACATGGATCGCAATGAATTTGATCAGTA
TTTGAACACTCCCGGCCACCTGACTCTGCTGCAGGGGTGGAACCTCACTGGGCATGTCCCGCTCTCC
CAGGGGACTCCCACAGGCCCTACAGAGACCAGCCTCATCTCAGTCTGGCTGATGCCACGGCCACGTATT
ACAACAGCTACAGTGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223853 representing NM_011446
Red=Cloning site Green=Tags(s)

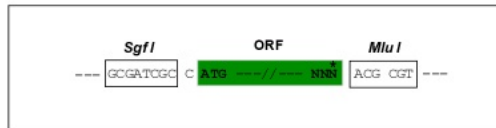
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MASLLGAYPWTEGLECPALEAELSDGLSPPAVPRPSGDKSSESRIIRPMNAFMVWAKDERKRLAVQNPD
HNAELSKMLGKSWKALTL SQRPYVDEAERLRLQHMQDYPNYKYRPRRKKQ GKRLCKRVDPGFLLSSLR
DQNTLPEKNGIGRGEKEDRGEYSPGATLPLGLHSCYREGAAAAPGSVDTPYGLPTPEMSPLDALEPEQT
FFSSSQEEHGHPHHLPHLPGPPYSPEFTPSPLHCSHPLGSLALGQSPGVSMSSVSGCPPSPAYYSHAT
YHPLHPNLQAHLGQLSPPPEHPGFDTLDQLSQVELLGDMDRNEFDQYLNTPGHPDSAAGVGTLTGHVPLS
QGTPTGPTETSLISVLADATATYNSYSVS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_011446

ORF Size: 1140 bp

OTI Disclaimer: 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.

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.

RefSeq: [NM_011446.1](#), [NP_035576.1](#)

RefSeq Size: 3266 bp

RefSeq ORF: 1143 bp

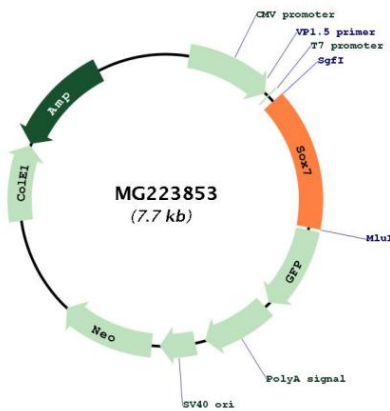
Locus ID: 20680

UniProt ID: [P40646](#)

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'. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223853