

Product datasheet for **MC201713**

Six1 (NM_009189) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Six1 (NM_009189) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Six1
Synonyms:	BB138287
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC023304 sequence for NM_009189
 CAGCAGCATCCACCCGGCGGAGCCAGCGAGGCCAGAGCCAGAAAGGCTGTAGAGAACGCCAGCCACTC
 GGAGTCTAGCTCACCCCTACTTCTTCTTCTTCTTGGCCTCCACCCGCCGAGGTTGACTGGTCTCT
 TCGCCCGCCAAAGGCTAGGGAGGGGTTAGGAGCAGCCGCGCCCCCTCCCGCGGCAGCCGCCCTG
 CTCTCCAGCTCTGCTCACTGCCGCGTGCGCCGGGCCGTGCGCCCGGCAGCCAGCCATGTCGATG
 CTGCCGCTCGTTTGGTTTTACGCAAGAGCAAGTGGCGTGCCTGCGAAGTTCTGCAGCAAGGAGGAAAC
 TGGAACGCTGGGCAGGTTCTTGTGGTCTTCCCGCCTGCGATCACCTGCACAAGAACGAGAGCGTGCT
 CAAGGCCAAGGCGTGGTCGCCTTCCACCGCGCAACTTCCGCGAGCTCTACAAGATACTGGAGAGCCAC
 CAGTTCTCGCCTCACAATCACCCCAAATGCAGCAGCTGTGGCTGAAAGCGCACTACGTGGAGGCCGAGA
 AACTTCGCGGCCGACCCCTGGGTGCCGTGGGCAAAATATCGGGTGCGCCGAAAATCCCGTTGCCGCGAC
 CATCTGGGACGGCGAGGAGACCAGCTACTGCTTTAAGGAGAAGTCTCGGGCGTGTGCGGGAGTGGTAC
 GCGCACAACCCCTACCCCTACCCGAGGGAGAAACGGGAGCTGGCCGAGGCCACCGGCTCACCACCACC
 AGGTCAAGCAACTGGTTTAAAGAACCGGAGGCAAAGAGACCCGGCCGCCGAGGCCAAGGAAAGGAGAAC
 CGAAAACAATAACTCCTCTCAACAAGCAGAATCAACTCTCTCTCTGGAAGGGGGCAAGCCGCTCATG
 TCCAGCTCAGAAGAGGAGTTCTACCCCCCAAAGTCCAGACCAGAAGTCCGCTCTCTGCTCCAGAGCA
 ATATGGGCCACGCCAGGAGCTCAAATATTCTTCCAGGCCACAGCCTCCACGCCAGCCACCGTCT
 GCAAGCCATCAGCACCAGCTCCAGGACTCTCTGCTGGGCCCACTCACCTCCAGTTTGGTGGACTTGGGT
 TCCTAAGTGGGGAGATATTGGGGCCTTGAAGGGATGGCCGGAGCAGCAACCAACCGCAGCAATCTAGGG
 ACATTGTACATAGAAGCCAGGGACAATTCTGCAGCTTGTCTTGGGGTCTTTGCGCAGAAAGGAACCA
 CAGGCTTTCACAATTGTCTTTTTAAAAATTACAACCAACAGCGGTCTCAGTTGAGCATCCTCTCCCTCT
 CTCCAACTCTTAATACCTTGCATTTCCCTCCCACTAAAAGTCAAGAAATAACAAAAACAGCCAGGCT
 TGGTTCTGGCAACCCAGGCATCCTTTACAGTAGTCCCTTATTCACCTCTTCTCTCTCTCTCTCTCT
 CTCTTTTAAATGAACAGAAATTACAATCAGCTGGATTGTAATTTATTTTTTAAATTTATTTATTTATTT
 CGTTTTAGGGAAGAGGAAAAGGAAATGAAGAGAGATCAAATAATGAAAACAAGAAACCTTCAGTGTGAG
 GGAACCTGGCTGCCTTCTTAAGCAAAATAGGAAAATAATCACAGCTGTTTTTTGATGGGAGATTAA
 GTTTACATTTTTCATATTTAGTGTAAATAATTTTATGTAGATTAATAAAAAGAGCAGTATTAGCAAGG
 GAAACAAGTGCCTAAATGTCTTAATGCTCTCTATGGGAGCGGTTAGGGTAGCAGCGATGTTAGTAATAC
 AACTATTTTTGTCAAATTAATAGGGTTTTGGTATTGTTTTCTGTTTTGTTTTGTTTTTAAATTTTT
 ATGACAACTCTAACGTGTACCAACGAGGGAGGGGAAAACCCGCTTCTCTAAATGTCATCAGTTCTTC
 CTCAGAACTCTCTATCTGTAGGCTGCCTCTGTGCAGAGGCTCTGCTACTACTCTAGTCTCTACTTA
 CAAGAGGGTGCCAACCAATCTGGCAGCCGGTGTGTTACTAAAACAGCATGTGTTTTTAGGCCTCCTT
 TCTATTGTACCTAAACAGTCTAAATTAATAACTCAGTAGCCAGCAGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_009189

Insert Size: 855 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.

RefSeq: [BC023304](#), [AAH23304](#)

RefSeq Size: 2170 bp

RefSeq ORF: 855 bp

Locus ID: 20471

UniProt ID: [Q62231](#)

Cytogenetics: 12 30.34 cM

Gene Summary: Transcription factor that is involved in the regulation of cell proliferation, apoptosis and embryonic development. Plays an important role in the development of several organs, including kidney, muscle and inner ear. Depending on context, functions as transcriptional repressor or activator. Lacks an activation domain, and requires interaction with EYA family members for transcription activation. Mediates nuclear translocation of EYA1 and EYA2. Binds the 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the MYOG promoter. Regulates the expression of numerous genes, including MYC, CCNA1, CCND1 and EZR. Acts as activator of the IGFBP5 promoter, probably coactivated by EYA2. Repression of precursor cell proliferation in myoblasts is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex. During myogenesis, seems to act together with EYA2 and DACH2. [UniProtKB/Swiss-Prot Function]