

Product datasheet for **MR231142**

Sox6 (NM_001277328) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox6 (NM_001277328) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sox6
Synonyms:	AI987981; SOX-LZ
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>MR231142 representing NM_001277328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTACAGCGGATGGAGAGGAAGCAATGACCCAGGACT
 TGACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACACCCGGCCTCCCATCTGCCTCTGCACCCATAAT
 GCACAACAAACCTCACTCTGAGGAGCTGCCTACACTTGTCACTACCATTCAACAAGATGCTGACTGGGAC
 AGCGTTTGTCTATCTCAGCAAAGAATGGAGTCAAGAAATAAAGTTATGTTCCCTATATTCCTTCCGAA
 ATACGTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGAGCGTAAATAATGAACAGTGTTACTTT
 TGGAACCCCGGAACGCCGCAAAGGGAGCCTTGCCGATGTGGTGGATACGCTGAAGCAGAAGAAGCTGGAG
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 AAATGGAAGACTAAATACGAGTGAACCTCTTGGAGAAAACAAAGGTACACCTGAGAGCCTTGACAGAAA
 AGAACGGCAACTCTCCACCATGATTACCCAGCTGATCAGCTTGGGGAGCAGCTCCTGGCAGCCCATGAT
 GAACAGAAAAAGCTGGCAGCATCGCAGATCGAGAAACAGCGGCAGCAAATGGACCTTGCTCGCCAACAGC
 AAGAACAGATCGCAAGACAACAGCAGCAACTTCTACAGCAGCAGCACAAGATTAATCTCCTCGCAGCAACA
 GATCCAGGTTTCAGGGGCACATGCCTCCGCTCATGATCCCAATTTTCCACATGACCCAGCGGACCTTGGCA
 GCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAAATAACATAACAAGCCAGGTGATAACTACC
 CCGTACAGTTTATTCCGTCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTACAGCTTACAGCA
 GCTCTATGCCGCTCAGCTGGCCAGCATGACAGGTGTACCTGGAGCAAAGATGCCATCAACTCCACAGCCA
 CCAAACCTGGCAGGGCAGTCTACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAACCTC
 AAGTTAAGGATGAAACAACAGCCAGCCGCTGAATCTCTCATCCCGCCTAAGACAGCAGAGCCTGTGAA
 GTCCCCAACATCTCCACCCAGAACCTTCTCCAGCCAGCAAACAGCCCTGTCAACCTGCCAAACAAA
 AGCAGCATCCCCAGCCCCATTGGAGGAAGCCTGGGGAGAGGATCCTCTCTAGATATACTATCCAGTCTCA
 ACTCTCCTGCCCTGTTTGGGGACCAGGACACAGTGTAAAGCCATTGAGGAGGCTCGGAAGATGCGAGA
 ACAGATCCAGCGGGAGCAACAACAGCAGCCACACGGAGTTGATGGGAAACTGTCTCCATGAACAACATG
 GGGCTGAGCAACTGCAGGACTGAGAAGGAAAGAACACGCTTTGAGAACCTGGGTCCCAATTAACAGGAA
 AGTCAAGTGAAGATGGAAAACCTGGGCCCGGTGTATCGATCTCACTCGGCCAGAGGACGCAGAAGGAAG
 CAAAGCAATGAATGGCTCTGCAGCTAACTACAGCAGTATTATTGTTGGCCAACAGGAGGCGCCACTGTG
 GCTGAAGCCCGTGTCTACAGGGATGCCCGCGCCGTGCCAGCAGGAACCCACATCAAGCGACCAATGA
 ATGCGTTTCATGGTTTGGGCAAAGGACGAAAGGAGGAAAATTTCTCAGGCCTTCCCTGACATGCATAACTC
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 GGAGATGCGACAGTTCTCACTGTGGGCAACAGCCTCAGATGCCATCACACAGGAACAGGTGTTGTG
 TATCCTGGTGTATTACTATGGCAACGACCACACCATCACCTCAGATGACATCTGACTGCTCTAGCACCT
 CTGCCAGCCCCGAGCCAGCCTCCCTGTATCCAGAGCACGTATGGTATGAAGATGGACGGCGCAAGCCT
 GGCTGGGAACGACATGATTAATGGAGAGGATGAAATGGAAGCCTATGACGACTACGAAGATGATCCCAAA
 TCAGACTATAGCAGCGAGAATGAGGCCCCAGAGCCTGTCAAGTCCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231142 representing NM_001277328
 Red=Cloning site Green=Tags(s)

MSSKQATSPFACTADGEEAMTQDLTSREKEEGSDQHPASHLPLHPIMHNKPHSEELPTLVSTIQDADWD
 SVLSSQQRMESENKCLSLYSFRNTSTSPHKPDEGSREREIMNSVTFGTERRKGLADVVDTLKQKLE
 EMTRTEQEDSSCKEKLKSKDWKEKMERLNTSELLGEIKGTPESLAEKERQLSTMITQLISLREQLLAHD
 EQKLAASQIEKQRQMDLARQQQEQIARQQQLLQQQHKINLLQQIQVQGHMPPLMIPIFPHDQRTLA
 AAAAAQQGFLFPPGITYKPGDNYPVQFIPSTMAAAAASGLSPLQLQQLYAAQLASMQVSPGAKMPSTPQP
 PNSAGAVSPTGIKNEKRGTSPVTQVKDETTAQPPLNLSSRPKTAEPVKSPTSPQNLFPAKTSVNLPNK
 SSIPSPIGGSLGRGSSLDILSSLNSPALFGDQDTVMKAIQEARKMREIQREQQQPHGVDGKLSMNM
 GLSNCRTEKERTFENLGPQLTGKSSDGKLGPGVIDLTRPEDAEGSKAMNGSAAKLQQYYCWPTGGATV
 AEARVYRDARGRASSEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGSRWKSMSNQEKPYYE
 EQARLSKIHLEKYPNYKYKPRKRTCIVDGKLRIGEYKQLMRSRRQEMRQFFTVGQQPQMPITTTGTGVV
 YPGAITMATTTSPQMTSDCSSTSASPEPSLPVIQSTYGMKMDGASLAGNDMINGEDEMEAYDDYEDDPK
 SDYSSENEPEPVSAN

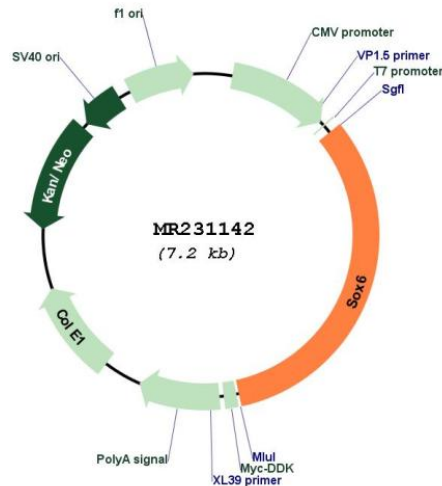
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001277328

ORF Size: 2358 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_001277328.1](#), [NP_001264257.1](#)

RefSeq Size: 8427 bp

RefSeq ORF: 2361 bp

Locus ID: 20679

UniProt ID: [P40645](#)

Cytogenetics: 7 61.29 cM

MW: 87.6 kDa

Gene Summary: This gene encodes a member of a family of transcriptional regulators containing high mobility group (HMG) DNA-binding domains. Function of the encoded protein is important for proper cardiac and skeletal development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]