

Product datasheet for **MR227148**

Sox6 (NM_001025559) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox6 (NM_001025559) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sox6
Synonyms:	AI987981; SOX-LZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227148 representing NM_001025559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTACAGCGGATGGAGAGGAAGCAATGACCCAGGACT
 TGACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACACCCGGCCTCCCATCTGCCTTGACCCCAATAAT
 GCACAACAAACCTCACTCTGAGGAGCTGCCTACACTTGTCACTACCATTCAACAAGATGCTGACTGGGAC
 AGCGTTTGTCTATCTCAGCAAAGAATGGAGTCAAGAAATAAAGTTATGTTCCCTATATTCCTCCGAA
 ATACGTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGAGCGTAAAATAATGAACAGTGTTACTTT
 TGGAAACCCGGAACGCCGAAAGGGAGCCTTGCCGATGTGGTGGATACGCTGAAGCAGAAGAAGCTGGAG
 GAGATGACTCGGACAGAACAAGAGGATTCCTCCTGCATGGAAAACTACTTTCAAAGATTGGAAGGAAA
 AAATGGAAGACTAAATACGAGTGAACCTCTTGGAGAAAACAAAGGTACACCTGAGAGCCTTGACAGAA
 AGAACGGCAACTCTCCACCATGATTACCCAGCTGATCAGCTTGGGGAGCAGCTCCTGGCAGCCCATGAT
 GAACAGAAAAAGCTGGCAGCATCGCAGATCGAGAAACAGCGGCAGCAAATGGACCTTGCTCGCCAACAGC
 AAGAACAGATCGCAAGACAACAGCAGCAACTTCTACAGCAGCAGCACAAGATTAATCTCCTCGACAAACA
 GATCCAGCAGGTTCAAGGGCACATGCCTCCGCTCATGATCCCAATTTTTCCACATGACCAGCGGACCTTG
 GCAGCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAATAACATAACAAGCCAGGTGATAACT
 ACCCCGTACAGTTCATCCGTCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTACAGCTTCA
 GCAGCTCTATGCCGCTCAGCTGGCCAGCATGCAGGTGTCACCTGGAGCAAAGATGCCATCAACTCCACAG
 CCACCAAACCTGGCAGGGGAGCTCACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAA
 CTCAAGTTAAGGATGAAACAACAGCCAGCCGCTGAATCTCTCATCCCGCCTAAGACAGCAGAGCCTGT
 GAAGTCCCAACATCTCCACCCAGAACCTCTTCCAGCCAGCAAACACAGCCCTGTCAACCTGCCAAAC
 AAAAGCAGCATCCCCAGCCCATTTGGAGGAAGCCTGGGGAGAGGATCCTCTAGATATACTATCCAGTC
 TCAACTCTCCTGCCCTGTTGGGGACCAGGACACAGTGTAAAGCCATTCAAGAGGCTCGGAAGATGCG
 AGAACAGATCCAGCGGGAGCAACAACAGCAGCCACACGGAGTTGATGGGAACTGTCTCCATGAACAAC
 ATGGGGCTGAGCAACTGCAGGACTGAGAAGGAAAGAACACGCTTTGAGAACCTGGGTCCCCAATTAACAG
 GAAAGTCAAGTGAAGATGGAAGTGGGAACTGGGCCGGGTGTCATCGATCTCACTCGGCCAGAGGACGAGAAG
 AAGCAAAGCAATGAATGGCTCTGCAGCTAACTACAGCAGTATTATTGTTGGCCAAACAGGAGGCCCACT
 GTGGCTGAAGCCGTGTCTACAGGGATGCCCGCGCCGTGCCAGCAGCAACCCACATCAAGCGACCAA
 TGAATGCGTTTATGGTTTGGGCAAAGGACGAAAGGAGGAAAAATCTTTCAGGCCTTCCCTGACATGCATAA
 CTCCAACATTAGCAAAATCTTAGGATCTCGCTGGAAATCCATGTCCAACAGGAGAAGCAACCTTACTAT
 GAAGAACAGGCCCGGCTAAGCAAAATCCACCTAGAGAAGTACCAAACTACAAGTACAAACCCCGGCCGA
 AGCGCACATGCATCGTGGATGGCAAGAAGCTCCGGATTGGGGAGTACAAGCAACTGATGCCTCGCGAAG
 GCAGGAGATGCGACAGTTCTTCACTGTGGGGCAACAGCCTCAGATGCCCATCACACAGGAACAGGTGTT
 GTGTATCCTGGTGTATTACTATGGCAACGACCACACCATCACCTCAGATGACATCTGACTGCTCTAGCA
 CCTCTGCCAGCCCGAGCCAGCCTCCCTGTATCCAGAGCACGTATGGTATGAAGATGGACGGCGCAAG
 CCTGGCTGGGAACGACATGATTAATGGAGAGGATGAAATGGAAGCCTATGACGACTACGAAGATGATCCC
 AAATCAGACTATAGCAGCGAGAATGAGGCCCGAGAGCCTGTCAAGTCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227148 representing NM_001025559
Red=Cloning site Green=Tags(s)

MSSKQATSPFACTADGEEAMTQDLTSREKEEGSDQHPASHLPLHPIMHNKPHSEELPTLVSTIQDADWD
SVLSSQQRMESENKLCSLYSFRNTSTSPHKPDEGSREREIMNSVTFGTPERRKGLADVVDLTKQKLE
EMTRTEQEDSSCKEKLKSKDWKEKMERLNTSELLGEIKGTPESLAEKERQLSTMITQLISLREQLLAHD
EQKKLAASQIEKQRQMDLARQQEQIARQQQLLQQQHKINLLQQIQQVQGHMPPLMIPIFPHDQRTL
AAAAAAQQGFLFPPGITYKPGDNYPVQFIPSTMAAAAASGLSPLQLQLYAAQLASMQVSPGAKMPSTPQ
PPNSAGAVSPTGIKNEKRGTSPTVQVKDETTAQPPLNLSSRPKTAEPVKSPTSPTQNLFPASKTSPVNLPN
KSSIPSPIGGSLGRGSSLDILSSLNSPALFGDQDTVMKAIQEARKMREIQREQQQPHGVDGKLSMNN
MGLSNCRTEKERTRFENLGPQLTGKSSDGLGPGVIDLTRPEDAEGSKAMNGSAAKLQYYCWPTGGAT
VAEARVYRDARGRASSEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGSRWKSMSNQEKQPY
EEQARLSKIHLEKYPNYKYKPRPKRTCIVDGKKLRIGEYKQLMRSRRQEMRQFFTVGQQPQMPITGTGV
VYPGAITMATTPSPQMTSDCSSTSASPEPSLPVIQSTYGMKMDGASLAGNDMINGEDEMEAYDDYEDDP
KSDYSSENEAEPEPVSAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



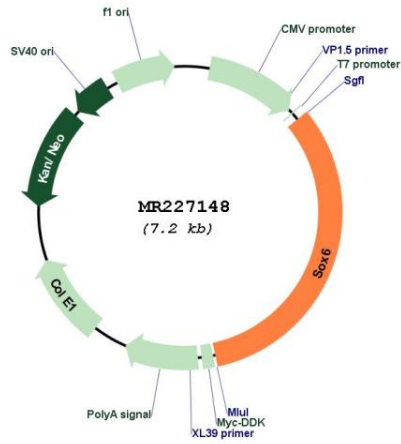
* The last codon before the Stop codon of the ORF

ACCN: NM_001025559

ORF Size: 2361 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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_001025559.3, NP_001020730.1</u>
RefSeq Size:	8079 bp
RefSeq ORF:	2364 bp
Locus ID:	20679
Cytogenetics:	7 61.29 cM
MW:	87.8 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]

Product images:



Circular map for MR227148