

Product datasheet for **RC227953**

SOX6 (NM_001145811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_001145811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SOX6
Synonyms:	HSSOX6; SOXD; TOLCAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227953 representing NM_001145811
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTGCAGCTGATGGAGAGGATGCAATGACCCAGGATT
 TAACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACATGTGGCCTCCCATCTGCCTCTGCACCCATAAT
 GCACAACAAACCTCACTCTGAGGAGCTACCAACACTTGTCACTACCATTCAACAAGATGCTGACTGGGAC
 AGCGTTTCTGCATCTCAGCAAAGAATGGAATCAGAGAATAATAAGTTATGTTCCCTATATTCCTTCCGAA
 ATACCTCTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGACCGTGAGATAATGACCAGTGTTACTTT
 TGGAAACCCAGAGCGCCGAAAGGGAGTCTTGCCTGATGTGGTGGACACTGAAACAGAAGAAGCTTGAG
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 AGAACGGCAGCTCTCCACATGATTACCCAGCTGATCAGTTTACGGGAGCAGCTACTGGCAGCGCATGAT
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 GATCCAGGTTTCAAGGTCACATGCCTCCGCTCATGATCCCAATTTTTCCACATGACCAGCGGACTCTGGCA
 GCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAAATAACATACAAACCAGGTGATAACTACC
 CCGTACAGTTTATTCCATCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTACAGCTCCAGCA
 GCTCTATGCCGCTCAGCTGGCCAGCATGCAAGGTGTACCTGGAGCAAAGATGCCATCACTCCACAGCCA
 CCAAACACAGCAGGGACGGTCTCACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAACCT
 AAGTTAAGGATGAAGCAGCAGCACAGCCTCTGAATCTCTATCCCGACCCAAAGACAGCAGCAGCTGTA
 GTCCCAACGCTCTCCACCCAGAACCTCTTCCAGCCAGCAAAACAGCCCTGTCAATCTGCCAAACAAA
 AGCAGCATCCCTAGCCCCATTGGAGGAAGCCTGGGAAGAGGATCCTCTTTAGGTAATGGAAAAGTCAAC
 ACCAGGAAGAGACTTACGAATTAGATATCCTATCTAGTCTCAACTCCCCTGCCCTTTTTGGGGATCAGGA
 TACAGTGATGAAAGCCATTACAGGAGCGCGGAAGATGCGAGAGCAGATCCAGCGGGAGCAACAGCAGCAA
 CAGCCACATGGTGTGACGGGAACTGTCTCCATAAATAATATGGGGCTGAACAGCTGCAGGAATGAAA
 AGGAAAGAACGCGCTTTGAGAATTTGGGGCCCCAGTTAACGGGAAAGTCAATGAAGATGGAAAAGTGGG
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 TGAGAGGAGAAAAATCCTTCAGGCCTTCCCCGACATGCATAACTCCAACATTAGCAAAATCTTAGGATCT
 CGCTGGAATCAATGTCCAACAGGAGAAGCAACCTTATTATGAAGAGCAGGCCCGGCTAAGCAAGATCC
 ACTTAGAGAAGTACCCAACTATAAATAACAAACCCGACCGAAACGCACCTGCATTGTTGATGGCAAAAA
 GCTTCGGATTGGGGAGTATAAGCAACTGATGAGGTCTCGGAGACAGGAGATGAGGCAGTTCTTTACTGTG
 GGGCAACAGCCTCAGATCCAATCACACAGGAACAGGTGTTGTGTATCCTGGTGTATCACTATGGCAA
 CTACCACACCATCGCCTCAGATGACATCTGACTGCTCTAGCACCTCGCCAGCCCGAGCCAGCCCTCCC
 GGTCATCCAGAGCACTTATGGTATGAAGACAGATGGCGGAAGCCTAGCTGGAAATGAAATGATCAATGGA
 GAGGATGAAATGGAAATGTATGATGACTATGAAGATGACCCCAATCAGACTATAGCAGTGAAAAATGAAG
 CCCCAGGAGCTGTCAAGTCCAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227953 representing NM_001145811
 Red=Cloning site Green=Tags(s)

MSSKQATSPFACAADGEDAMTQDLTSREKEEGSDQHVASHLPLHPIMHNKPHSEELPTLVSTIQDADWD
 SVLSSQQRMESENKLCSLYSFRNTSTSPHKPDEGSRDREIMTSVTFGTPERRKGLADVVDTLKQKKLE
 EMTRTEQEDSSCKEKLKSKDWKEKMERLNTSELLGEIKGTPESLAEKERQLSTMITQLISLREQLLAHD
 EQKKLAASQIEKQRQQMDLARQQEQIARQQQLLQQQHKINLLQQQIQVQGHMPPLMIPIFPHDQRTLA
 AAAAAQQGFLFPPGITYKPGDNYPVQFIPSTMAAAAASGLSPLQLQQLYAAQLASMQVSPGAKMPSTPQP
 PNTAGTVSPTGIKNEKRGTSPVTQVKDEAAAQPLNLSRPKTAEPVKSPTSPQNLFPAKTSNVNLPNK
 SSIPSPIGGSLGRGSSLGKWKSQHQEETVELDILSSLNSPALFGDQDTVMKAIQEARKMREIQREQQQQ
 QPHGVDGKLSINNMGLNSCRNEKERTFENLGPQLTGKSNEDGKLGPGVIDLTRPEDAEGSKAMNGSAA
 KLQQYYCWPTGGATVAEARVYRDARGRASSEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGS
 RWKSMSNQEKQPYEEQARLSKIHLEKYPNYKYKPRPKRTCIVDGKCLRIGEYQLMRSRRQEMRQFFTV
 GQQPQIPITTTGTGVVYPGAIMATTTTSPQMTSDCSSTSASPEPSLPVIQSTYGMKTDGGSLAGNEMING
 EDEMEMYDDYEDDPKSDYSSENEAPEAVSAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001145811

ORF Size: 2403 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_001145811.2](#)

RefSeq ORF: 2406 bp

Locus ID: 55553

UniProt ID: [P35712](#)

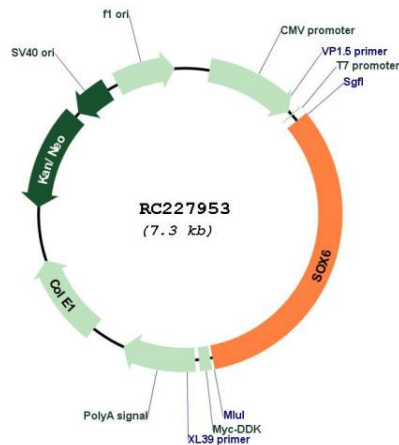
Cytogenetics: 11p15.2

Protein Families: Transcription Factors

MW: 88.8 kDa

Gene Summary: This gene encodes a member of the D subfamily of sex determining region y-related transcription factors that are characterized by a conserved DNA-binding domain termed the high mobility group box and by their ability to bind the minor groove of DNA. The encoded protein is a transcriptional activator that is required for normal development of the central nervous system, chondrogenesis and maintenance of cardiac and skeletal muscle cells. The encoded protein interacts with other family members to cooperatively activate gene expression. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

Product images:



Circular map for RC227953