

Product datasheet for **RC227487**

SOX6 (NM_001145819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_001145819) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC227487 representing NM_001145819.
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAAAGGTCATGGTGAAGCTTCAAGGACATGAAAGAAGAATGTCTTCCAAGCAAGCCACCTCTCCATTT
GCCTGTGCAGCTGATGGAGAGGATGCAATGACCCAGGATTTAACCTCAAGGAAAAGGAAGAGGGCAGT
GATCAACATGTGGCCTCCCATCTGCCTCTGCACCCATAATGCACAACAAACCTCACTCTGAGGAGCTA
CCAACACTTGTCACTACCATCAACAAGATGCTGACTGGGACAGCGTTCTGTCATCTCAGCAAAGATG
GAATCAGAGAATAATAAGTTATGTTCCCTATATTCCTTCCGAAATACCTCTACCTCACCACATAAGCCT
GACGAAGGGAGTCGGGACCGTGAGATAATGACCAGTGTTACTTTTGAACCCAGAGCGCCGAAAGGG
AGTCTTGGCGATGTGGTGGACACACTGAAACAGAAGAAGCTTGAGGAAATGACTCGGACTGAACAAGAG
GATTCCTCTGCATGGAAAACTACTTTCAAAGATTGGAAGGAAAAATGGAAAGACTAAATACCAGT
GAACTTCTTGAGAAATTAAGGTACACCTGAGAGCCTGGCAGAAAAAGAACGGCAGCTCTCCACCATG
ATTACCCAGCTGATCAGTTTACGGGAGCAGCTACTGGCAGCGCATGATGAACAGAAAAAACTGGCAGCG
TCACAAATTGAGAAAAACGGCAGCAAAATGGACCTTGCTCGCAACAGCAAGAACAGATTGCGAGACAA
CAGCAGCAACTTCTGCAACAGCAGCACAAAATTAATCTCCTGCAGCAACAGATCCAGGTTAGGGTCCAC
ATGCCTCCGCTCATGATCCCAATTTTCCACATGACCAGCGGACTCTGGCAGCAGCTGCTGCTGCCCAA
CAGGGATTCTCTTCCCCCTGGAATAACATACAAACCAGGTGATAACTACCCCGTACAGTTCATTTCCA
TCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTACAGCTCCAGAAGGGTCATGTCTCCAC
CCACAAATTAACCAAGGCTAAAGGGCTAAGTGACCGTTTTGGCAGGAATTTGGACACCTTTGAACAT
GGTGGTGGCCACTTTACAACCACAAACAGATTGAGCAGCTCTATGCCGCTCAGCTGGCCAGCATGCAG
GTGTCACTGGAGCAAGATGCCATCAACTCCACAGCCACCAACACAGCAGGGACGGTCTCACCTACT
GGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAACCTCAAGTTAAGGATGAAGCAGCAGCACAGCCT
CTGAATCTCTATCCCGACCCAAGACAGCAGAGCCTGTAAGTCCCAACGCTCTCCACCCAGAACCTC
TTCCAGCCAGCAAAAACAGCCCTGTAATCTGCCAAAACAAAAGCAGCATCCCTAGCCCCATTGGAGGA
AGCCTGGGAAGAGGATCTCTTTAGATATCCTATCTAGTCTCACTCCCCTGCCCTTTTTGGGGATCAG
GATACAGTGATGAAAGCCATTACAGGAGCGCGGAAGATGCGAGAGCAGATCCAGCGGGAGCAACAGCAG
CAACAGCCACATGGTGTGACGGGAAACTGTCTCCATAAATAATATGGGGCTGAACAGCTGCAGGAAT
GAAAAGGAAAAGAACCGCTTTGAGAATTTGGGGCCCCAGTTAACGGGAAAGTCAAATGAAGATGGAAAA
CTGGGCCAGGTGTCATCGACCTTACTCGGCCAGAAGATGCAGAGGGAAGTAAAGCAATGAATGGCTCT
GCAGCTAAACTACAGCAGTATTATTGTTGGCCAACAGGAGGTGCCACTGTGGCTGAAGCAGCAGTCTAC
AGGGACGCCCGCGGCCGTGCCAGCAGCAGCCACACATTAAGCGACCAATGAATGCATTCATGGTTTGG
GCAAAGGATGAGAGGAGAAAAATCCTTCAGGCCTTCCCCGACATGCATAACTCCAACATTAGCAAAATC
TTAGGATCTCGTGGAAATCAATGTCCAACCAGGAGAAGCAACCTTATTGAAGAGCAGGCCCGGCTA
AGCAAGATCCACTTAGAGAAGTACCCAAACTATAAATACAAACCCCGACCGAAACGCACCTGCATTGTT
GATGGCAAAAAGCTTCGGATTGGGGAGTAAAGCAACTGATGAGGTCTCGGAGACAGGAGATGAGGCAG
TTCTTTACTGTGGGCAACAGCCTCAGATTCCAATCACCACAGGAACAGGTGTTGTATCTCTGGTGT
ATCACTATGGCAACTACCACACCATCGCCTCAGATGACATCTGACTGCTTAGCACCTCGGCCAGCCG
GAGCCCAGCCTCCCGGTCATCCAGAGCACTTATGGTATGAAGACAGATGGCGGAAGCCTAGCTGGAAAT
GAAATGATCAATGGAGAGGATGAAATGGAATGTATGATGACTATGAAGATGACCCCAAATCAGACTAT
AGCAGTAAAAATGAAGCCCCGAGGCTGTCACTGCCAAC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Protein Sequence: >Peptide sequence encoded by RC227487
Blue=ORF Red=Cloning site Green=Tag(s)

MKGGHGLQGHERRMSSKQATSPFACAADGEDAMTQDLTSREKEEGSDQHVASHLPLHPIMHNKPHSEEL
PTLVSTIQDADWDSVLSSQQRMESENKLCSLYSFRNTSTSPHKPDEGSRDREIMTSVTFGTPERRKG
SLADVDTLKQKLEEMTRTEQEDSSCKEKLKSKDWKEKMERLNTSELLGEIKGTPESLAEKERQLSTM
ITQLISLREQLLAHDEQKLAASQIEKQRQMDLARQQEQEIARQQQQLLQQQHKINLLQQQIQVQGH
MPPLMIPIFPHDQRTLAAAAAQGFLLFPPGITYKPGDNYPVQFIPSTMAAAAASGLSPLQLQKGVSH
PQINQRLKGLSDRFGRNLDTFEHGGGHSYNHKQIEQLYAAQLASMQVSPGAKMPSTPQPNTAGTVSPT
GIKNEKRGTSPTVQKDEAAAQPLNLSSRPKTAEPVKSPSTPTQNLFPASKTSPVNLPNKSSIPSPIGG
SLGRGSSLDILSSLNSPALFGDQDTVMKAIQEARKMREIQREQQQQPHGVDGKLSINMGLNSCRN
EKERTRFENLGPQLTGKSNEDGKLGPGVIDLTRPEDAEGSKAMNGSAAKLQYYCWPTGGATVAEARVY
RDARGRASSEPHIKRPMNAFMVWAKDERRKILQAFDMHNSNISKILGSRWKSMSNQEKPYYEEQARL
SKIHLEKYPNYKYKPRPKRTCIDVGKLRIGEYKQLMRSRRQEMRQFFTVGQQPQIPITTTGTGVVYPGA
ITMATTPSPQMTSDCSSTASPEPSLPVIQSTYGMKTDGGSLAGNEMINGEDEMEMYDDYEDDPKSDY
SSENEAPEAVSAN
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001145819

ORF Size: 2523 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_001145819.1](#), [NP_001139291.1](#)

RefSeq Size: 8919 bp

RefSeq ORF: 2487 bp

Locus ID: 55553

UniProt ID: [P35712](#)

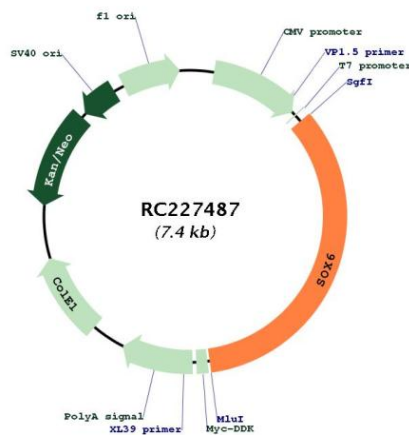
Cytogenetics: 11p15.2

Protein Families: Transcription Factors

MW: 93.4 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 RC227487