

Product datasheet for **RC234638**

SOX5 (NM_001261414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX5 (NM_001261414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SOX5
Synonyms:	L-SOX5; L-SOX5B; L-SOX5F; LAMSHF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234638 representing NM_001261414
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTCCTCAAGCGACCAGCCTCTCCGTATGGGGAAGCAGATGGAGAGGTAGCCATGGTGACAAGCAGAC
AGAAAGTGAAGAAGAGGAGAGTGACGGGCTCCCAGCCTTTCACCTTCCCTTGCAATGTGAGTTTTCCCAA
CAAGCCTCACTCTGAGGAATTTAGCCAGTTTCTGCTGACGCAAGAGACTTGTGGCCATAGGACTCCC
ACTTCTCAGCACAATAAATGGAAGTTGATGGCAATAAAGTTATGTCTTCATTTGCCCCACACAACATCAT
CTACCTCACCTCAGAAGGCAGAAGAAGTGGGCGACAGAGTGGCGAGTCTTGTCTAGTACAGCCCTGGG
AACTCCTGAACGGCGCAAGGGCAGTTTAGCTGATGTTGTTGACACCTTGAAGCAGAGGAAAATGGAAGAG
CTCATCAAAAACGAGCCGGAAGAAACCCCAAGTATTGAAAACTACTCTCAAAGGACTGGAAGACAAGC
TTCTTGCAATGGGATCGGGAACTTTGGCGAAATAAAAGGGACTCCCGAGAGCTTAGCTGAGAAAAGAAAG
GCAACTCATGGGTATGATCAACCAGCTGACCAGCCTCCGAGAGCAGCTGTTGGCTGCCACGATGAGCAG
AAGAACTAGCTGCCTCTCAGATTGAGAAACAGCGTCAGCAAATGGAGCTGGCCAAGCAGCAACAAGAAC
AAATTGCAAGACAGCAGCAGCAGCTTCTACAGCAACAACAACAAAATCAATTTGCTCCAGCAACAGATCCA
GGTTCAAGGTGAGCTGCCGCCATTAATGATTCCTGATTCCTCTGATCAACGGACACTGGCTGCAGCT
GCCCAGCAAGGATTCCTCCTCCCTCCAGGCTTACAGCTATAAGGCTGGATGTAGTGACCCTTACCTGTTT
AGCTGATCCCACTACCATGGCAGCTGTGCGCAGCAACACCAGGCTTAGGCCCACTCCAAGTGCAGCA
GTTATATGCTGCCAGCTAGCTGCAATGCAGGTATCTCCAGGAGGGAAGCTGCCAGGCATACCCCAAGGC
AACCTTGGTGTGCTGTATCTCCTACCAGCATTCACACAGACAAGAGCACAAACAGCCACCACCCAAAA
GCAAGGAAAAACAACACTGGAGAGCTGACTCAGCAACTGGCAGTTAACAGAAATGAAGAAGGAAAATTT
TAGCCATGCAATGATGGATTTCAATCTGAGTGGAGATTCTGATGGAAGTGTGGAGTCTCAGAGTCAAGA
ATTTATAGGGAATCCCGAGGGCGTGGTAGCAATGAACCCACATAAAGCGTCCAATGAATGCCTTCATGG
TGTGGGCTAAAGATGAACGGAGAAAGATCCTTCAAGCCTTTCCTGACATGCACAACCTCAACATCAGCAA
GATATTGGGATCTCGCTGGAAAGCTATGACAAACCTAGAGAAACAGCCATATTATGAGGAGCAAGCCCGT
CTCAGCAAGCAGCACCTGGAGAAGTACCCTGACTATAAGTACAAGCCAGGCCAAAGCGCACCTGCCTGG
TGGATGGCAAAAAGCTGCGCATTGGTGAATACAAGGCAATCATGCGCAACAGGCGGCAGGAAATGCGGCA
GTACTTCAATGTTGGGCAACAAGCACAGATCCCCATTGCCACTGCTGGTGTGTGTACCTGGAGCCATC
GCCATGGCTGGGATGCCCTCCCCTCACCTGCCCTCGGAGCACTCAAGCGTGTCTAGCAGCCAGAGCCTG
GGATGCCTGTTATCCAGAGCACTTACGGTGTGAAAGGAGAGGAGCCACATATCAAAGAAGAGATACAGGC
CGAGGACATCAATGGAGAAATTTATGATGAGTACGACGAGGAAGAGGATGATCCAGATGTAGATTATGGG
AGTGACAGTGA AAACCATATTGCAGGACAAGCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234638 representing NM_001261414
Red=Cloning site Green=Tags(s)

MSSKRPASPYGEADGEVAMVTSRQKVEEEESDGLPAFHLPLHVSFPNKPHSEEFQPVSLLTQETCGHRTPTSQHNTMEVDGNKVMSSFAPHNSSTSPQKAEEGGRQSGESLSSTALGTPERRKGSLADVVDTLKQRKMEE
 LIKNEPEETPSIEKLLSKDWKDKLLAMGSGNFGEIKGTPESLAEKERQLMGMINQLTSLREQLLAHDEQ
 KKLAASQIEKQRQMELAKQQEQEIARQQQLLQQQHINLLQQQIQVQGLPPLMIPVFPDQRTLAAA
 AQQGFLLPPGFSYKAGCSDPYVQLIPTTMAAAAAATPGLGPLQLQQLYAAQLAAMQVSPGKLPGIPQG
 NLGAAVSPTSIHTDKSTNSPPPKSKEKTTLESLTQQLAVKQNEEGKFSHAMMDFNLSGSDGSSAGVSESR
 IYRESRGRGSNEPHIKRPMNAFMVWAKDERRKILQAFPDMHNSNISKILGSRWKAMTNLEKQPYEEQAR
 LSKQHLEKYPDYKYKPRPKRTCLVDGKLRIGEYKAIMRNRQEMRQYFNVGQQAIPIATAGVVYPGAI
 AMAGMPSPHLPSEHSSVSSSPEPGMPVIQSTYGKGEPHIKEEIQAEDINGEIYDEYDEEEDDPDVDYG
 SDSENHIAGQAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001261414

ORF Size: 1926 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_001261414.3](#)

RefSeq Size: 4317 bp

RefSeq ORF: 1929 bp

Locus ID: 6660

UniProt ID: [P35711](#)

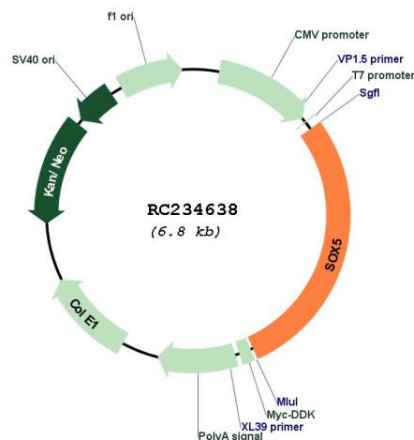
Cytogenetics: 12p12.1

Protein Families: Transcription Factors

MW: 71.5 kDa

Gene Summary: This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. The encoded protein may play a role in chondrogenesis. A pseudogene of this gene is located on chromosome 8. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC234638