

## Product datasheet for **RG224271**

### SOX5 (NM\_152989) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX5 (NM_152989) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX5
Synonyms:	L-SOX5; L-SOX5B; L-SOX5F; LAMSHF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG224271 representing NM\_152989  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCTCAAGCGACCAGCCTCTCCGTATGGGGAAGCAGATGGAGAGGTAGCCATGGTGACAAGCAGAC  
 AGAAAGTGAAGAAGAGGAGAGTGACGGCTCCAGCCTTTCACCTTCCCTTGCATGTGAGTTTTCCCAA  
 CAAGCCTCACTCTGAGGAATTTAGCCAGTTTCTGCTGACGCAAGAGACTTGTGGCCATAGGACTCCC  
 ACTTCTCAGCACAATAAATGGAAGTTGATGGCAATAAAGTTATGTCTTCATTTGCCCCACACAACATCAT  
 CTACCTCACCTCAGAAGGCAGAAGAAGTGGGCGACAGAGTGGCGAGTCCCTGTCTAGTACAGCCCTGGG  
 AACTCCTGAACGGCGCAAGGGCAGTTTAGCTGATGTTGTTGACACCTTGAAGCAGAGGAAAATGGAAGAG  
 CTCATCAAAAACGAGCCGGAAGAAACCCCAAGTATTGAAAACTACTCTCAAAGGACTGGAAGACAAGC  
 TTCTTGAATGGGATCGGGAACTTTGGCGAAATAAAAGGGACTCCCGAGAGCTTAGCTGAGAAAAGAAAG  
 GCAACTCATGGGTATGATCAACCAGCTGACCAGCTCCGAGAGCAGCTGTTGGCTGCCACGATGAGCAG  
 AAGAACTAGCTGCCTCTCAGATTGAGAAACAGCGTCAGCAAATGGAGCTGGCCAAGCAGCAACAAGAAC  
 AAATTGCAAGACAGCAGCAGCAGCTTCTACAGCAACAACAACAAAATCAATTTGCTCCAGCAACAGATCCA  
 GGTTCAAGGTCAGCTGCCGCCATTAATGATTCCTGATTCCTCTCTGATCAACGGACACTGGCTGCAGCT  
 GCCCAGCAAGGATTCCTCCTCCCTCCAGGCTTCAGCTATAAGGCTGGATGATGAGACCTTACCCTGTTC  
 AGCTGATCCCACTACCATGGCAGCTGCTGCCGACGAACACCAGGCTTAGGCCACTCCAAGTGCAGCA  
 GTTATATGCTGCCAGCTAGCTGCAATGCAGGTATCTCCAGGAGGGAAGCTGCCAGGCATACCCCAAGGC  
 AACCTTGGTGTGCTGTATCTCCTACCAGCATTCACACAGACAAGAGCACAACAGCCACCACCCAAAA  
 GCAAGGATGAAGTGGCACAGCCACTGAACCTATCAGCTAAACCCAAGACCTCTGATGGCAAATCACCCAC  
 ATCACCCACCTCTCCCATATGCCAGCTCTGAGAATAAACAGTGGGGCAGGCCCCCTCAAAGCCTCTGTC  
 CCAGCAGCGTTAGCTAGTCCCTCAGCCAGAGTTAGCACAATAGGTTACTTAAATGACCATGATGCTGTCA  
 CCAAGGCAATCCAAGAAGCTCGGCAAAATGAAGGAGCAACTCCGACGGGAACAACAGGTGCTTGTGAGGAA  
 GGTGGCTGTTGTGAATAGTCTGGGTCTCAATAACTGCCGAACAGAAAAGGAAAAACAACACTGGAGAGT  
 CTGACTCAGCAACTGGCAGTTAAACAGAATGAAGAAGGAAAATTTAGCCATGCAATGATGGATTTCAATC  
 TGAGTGGAGATTCTGATGGAAGTCTGGAGTCTCAGAGTCAAGAATTTATAGGGAATCCCGAGGGCGTGG  
 TAGCAATGAACCCACATAAAGCGTCCAATGAATGCCTTCATGGTGTGGGCTAAAGATGAACGGAGAAAG  
 ATCCTTCAAGCCTTTCCTGACATGCACAACCTCAAACATCAGCAAGATATTGGGATCTCGTGGAAAGCTA  
 TGACAAAACCTAGAGAAACAGCCATATTATGAGGAGCAAGCCCGTCTCAGCAAGCAGCACCTGGAGAAGTA  
 CCCTGACTATAAGTACAAGCCCAGGCCAAAGCGCACCTGCCTGGTGGATGGCAAAAAGCTGCGCATTGGT  
 GAATACAAGGCAATCATGCGCAACAGGCGGCAGGAAATGCGGCAGTACTTCAATGTTGGGCAACAAGCAC  
 AGATCCCCATTGGCACTGCTGGTGTGTGTACCCTGGAGCCATCGCCATGGCTGGGATGCCCTCCCTCA  
 CCTGCCCTCGGAGCACTCAAGCGTGTCTAGCAGCCAGAGCCTGGGATGCCTGTTATCCAGAGCACTTAC  
 GGTGTGAAAGGAGAGGAGCCACATATCAAAGAAGAGATACAGGCCGAGGACATCAATGGAGAAATTTATG  
 ATGAGTACGACGAGGAAGAGGATGATCCAGATGTAGATTATGGGAGTGACAGTGAACCATATTGCAGG  
 ACAAGCCAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG224271 representing NM\_152989  
Red=Cloning site Green=Tags(s)

MSSKRPASPYGEADGEVAMVTSRQKVEEEESDGLPAFHLPLHVSFPNKPHSEEFQPVSLLTQETCGHRTPTSQHNTMEVDGNKVMSSFAPHNSSTSPQKAEEGGRQSGESLSSTALGTPERRKGLADVDLTKQRKMEE  
 LIKNEPEETPSIEKLLSKDWKDKLLAMGSGNFGEIKGTPESLAEKERQLMGMINQLTSLREQLLAHDEQ  
 KKLAASQIEKQRQMELAKQQEQIARQQQLLQQQHKINLLQQQIQVQQLPLMIPVFPDQRTLAAA  
 AQQGFLLPPGFSYKAGCSDPYVQLIPTTMAAAAAAATPGLGPLQLQQLYAAQLAAMQVSPGKLPGIPQ  
 NLGAAVSPTSIHTDKSTNSPPPKSKDEVAQPLNLSAKPKTSDGKSPTSPTSPHMPALRNSGAGPLKASV  
 PAALASPARVSTIGYLNDHDAVTKAIQEARQMKEQLRREQVLDGKVAVVNSLGLNNCRTEKEKTTLES  
 LTQQLAVKQNEEGKFSHAMDFNLSGDSDGSAGVSESRIYRESRGRSNEPHIKRPMNAFMVWAKDERRK  
 ILQAFPDMHNSNISKILGSRWKAMTNLEKQPYEEQARLSKQHLEKYPDYKYKPRPKRTCLVDGKKLRIG  
 EYKAIMRRRQEMRQYFNVGQQAQIPIATAGVVYPGAIAMAGMPSPHLPSEHSSVSSSPEPGMPVIQSTY  
 GVKGEEPHIKEEIQAEDINGEIYDEYDEEDDPDVDYGSDSENHIAGQAN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152989

**ORF Size:** 2250 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\\_152989.5](#)

**RefSeq Size:** 4566 bp

**RefSeq ORF:** 2253 bp

**Locus ID:** 6660

**UniProt ID:** [P35711](#)

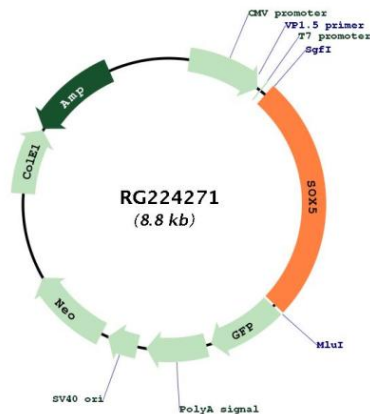
**Cytogenetics:** 12p12.1

**Domains:** HMG

**Protein Families:** Transcription Factors

**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 RG224271