

Product datasheet for **RG234638**

SOX5 (NM_001261414) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | SOX5 (NM_001261414) 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:

>RG234638 representing NM_001261414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTCCAAGCGACCAGCCTCTCCGTATGGGGAAGCAGATGGAGAGGTAGCCATGGTGACAAGCAGAC
 AGAAAGTGAAGAAGAGGAGAGTGACGGCTCCCAGCCTTTCACCTTCCCTTGCATGTGAGTTTTCCCAA
 CAAGCCTCACTCTGAGGAATTTAGCCAGTTTCTGCTGACGCAAGAGACTTGTGGCCATAGGACTCCC
 ACTTCTCAGCACAATAAATGGAAGTTGATGGCAATAAAGTTATGTCTTCATTTGCCCCACACAACATCAT
 CTACCTCACCTCAGAAGGCAGAAGAAGTGGGCGACAGAGTGGCGAGTCCTTGTCTAGTACAGCCCTGGG
 AACTCCTGAACGGCGCAAGGGCAGTTTAGCTGATGTTGTTGACACCTGAAGCAGAGGAAAATGGAAGAG
 CTCATCAAAAACGAGCCGGAAGAAACCCCAAGTATTGAAAACTACTCTCAAAGGACTGGAAGACAAGC
 TTCTTGAATGGGATCGGGAACTTTGGCGAAATAAAAGGGACTCCCGAGAGCTTAGCTGAGAAAAGAAAG
 GCAACTCATGGGTATGATCAACCAGCTGACCAGCCTCCGAGAGCAGCTGTTGGCTGCCACGATGAGCAG
 AAGAACTAGCTGCCTCTCAGATTGAGAAACAGCGTCAGCAAATGGAGCTGGCCAAGCAGCAACAAGAAC
 AAATTGCAAGACAGCAGCAGCAGCTTCTACAGCAACAACAACAAAATCAATTTGCTCCAGCAACAGATCCA
 GGTTCAAGGTGAGCTGCCGCCATTAATGATTCCTGATTCCTCTCTGATCAACGGACTGGCTGCAGCT
 GCCCAGCAAGGATTCCTCCTCCCTCCAGGCTTACAGCTATAAGGCTGGATGATGAGTACCCTTACCCTGTT
 AGCTGATCCCACTACCATGGCAGCTGCTGCCGACGAACACCAGGCTTAGGCCACTCCAAGTGCAGCA
 GTTATATGCTGCCAGCTAGCTGCAATGCAGGTATCTCCAGGAGGAAGCTGCCAGGCATACCCCAAGGC
 AACCTTGGTGTGCTGTATCTCCTACCAGCATTCACACAGACAAGAGCACAACAGCCACCACCCAAAA
 CCAAGGAAAAACAACACTGGAGAGCTGACTCAGCAACTGGCAGTTAAACAGAATGAAGAAAGAAAATT
 TAGCCATGCAATGATGGATTTCAATCTGAGTGGAGATTCTGATGGAAGTGTGGAGTCTCAGAGTCAAGA
 ATTTATAGGGAATCCCGAGGGCGTGGTAGCAATGAACCCACATAAAGCGTCCAATGAATGCCTTATGG
 TGTGGGCTAAAGATGAACGGAGAAAGATCCTTCAAGCCTTTCCTGACATGCACAACCTCAACATCAGCAA
 GATATTGGGATCTCGCTGGAAAGCTATGACAAACCTAGAGAAACAGCCATATTATGAGGAGCAAGCCGT
 CTCAGCAAGCAGCACCTGGAGAAGTACCCTGACTATAAGTACAAGCCAGGCCAAAGCGCACCTGCCTGG
 TGGATGGCAAAAAGCTGCGCATTGGTGAATACAAGGCAATCATGCGCAACAGGCGGCAGGAAATGCGGCA
 GTACTTCAATGTTGGGCAACAAGCACAGATCCCCATTGCCACTGCTGGTGTGTGTACCTGGAGCCATC
 GCCATGGCTGGGATGCCCTCCCCTCACCTGCCCTCGGAGCACTCAAGCGTGTCTAGCAGCCAGAGCCTG
 GGATGCCTGTTATCCAGAGCACTTACGGTGTGAAAGGAGAGGAGCCACATATCAAAGAAGAGATACAGGC
 CGAGGACATCAATGGAGAAATTTATGATGAGTACGACGAGGAAGAGGATGATCCAGATGTAGATTATGGG
 AGTGACAGTGA AAAACCATATTGCAGGACAAGCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234638 representing NM_001261414
 Red=Cloning site Green=Tags(s)

MSSKRPA SPYGEADGEVAMVTSRQKVEEESDGLPAFHLPLHVSFPNKPHEEFQPVSLLTQETCGHRTPT
 TSQHNTMEVDGNKVMSSFAPHNSSTSPQKAEEGGRQSGESL SSTALGTPERRKGLADVVDTLKQRKMEE
 L IKNEPEETPSIEKLLSKDWKDLLAMGSGNFGEIKGTPESLAEKERQLMGMINQLTSLREQLLAHDEQ
 KKLAAASQIEKQRQMQMELAKQQEQIARQQQLLQQQHKINLLQQQIQVQQLPPLMIPVFPDQRTLAAA
 AQQGFLLPFGFSYKAGCSDPYPVQLIPTTMAAAAAATPGLGPLQLQLYAAQLAAMQVSPGGKLPGIPQG
 NLGAAVSPSTSIHTDKSTNSPPPKSKEKTTLESLTQQLAVKQNEEGKF SHAMMDFNLSGSDGSAGVSESR
 IYRESRGRGSNEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGSRWKAMTNLEKQPYEEQAR
 LSKQHLEKYPDYKYKPRPKRTCLVDGKKLRIGEYKAIMRNRQEMRQYFNVGQQAQIPIATAGVVYPGAI
 AMAGMPSPHLPSEHSSVSSSPEPGMPVIQSTYGVKGEPEHIKEEIQAEINGEYDEYDEEEDDPDQVYD
 SSENHIAGQAN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

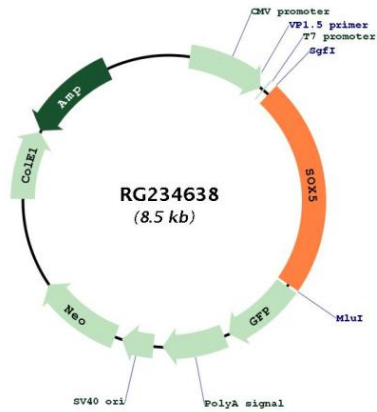
UniProt ID: [P35711](#)

Cytogenetics: 12p12.1

Protein Families: Transcription Factors

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 RG234638