

## Product datasheet for **RG219387**

### SOX5 (NM\_178010) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX5 (NM_178010) 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)
ORF Nucleotide Sequence:	>RG219387 representing NM_178010 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCATGATGAAGTGGCAGCCACTGAACCTATCAGCTAAACCCAAGACCTCTGATGGCAAATCACCCA  
CATCACCCACCTCTCCCATATGCCAGCTCTGAGAATAAACAGTGGGGCAGGCCCCCTCAAAGCCTCTGT  
CCCAGCAGCGTTAGCTAGTCCTCAGCCAGAGTTAGCACAATAGGTTACTTAAATGACCATGATGCTGTC  
ACCAAGGCAATCCAAGAAGCTCGGCAAATGAAGGAGCAACTCCGACGGGAACAACAGGTGCTTGATGGGA  
AGGTGGCTGTTGTGAATAGTCTGGGTCTCAATAACTGCCGAACAGAAAAGGAAAAACAACACTGGAGAG  
TCTGACTCAGCAACTGGCAGTTAAACAGAATGAAGAAGGAAAATTTAGCCATGCAATGATGGATTCAAT  
CTGAGTGGAGATTCTGATGGAAGTGCTGGAGTCTCAGAGTCAAGAATTTATAGGGAATCCCGAGGGCGTG  
GTAGCAATGAACCCACATAAAGCGTCCAATGAATGCCTTCATGGTGTGGGCTAAAGATGAACGGAGAAA  
GATCCTTCAAGCCTTTCCTGACATGCACAACTCCAACATCAGCAAGATATTGGGATCTCGCTGGAAGCT  
ATGACAAACCTAGAGAAACAGCCATATTATGAGGAGCAAGCCGCTCTCAGCAAGCAGCACCTGGAGAAGT  
ACCCTGACTATAAGTACAAGCCAGGCCAAAGCGCACCTGCCTGGTGGATGGCAAAAAGCTGCGCATTGG  
TGAATACAAGGCAATCATGCGCAACAGGCGGCAGGAAATGCGGCAGTACTTCAATGTTGGCAACAAGCA  
CAGATCCCATTGCCACTGCTGGTGTGTACCCTGGAGCCATGCCATGGCTGGGATGCCCTCCCCTC  
ACCTGCCCTCGGAGCACTCAAGCGTGTCTAGCAGCCAGAGCCTGGGATGCCTGTTATCCAGAGCACTTA  
CGGTGTGAAAGGAGAGGACCCACATATCAAGAAGAGATACAGGCCGAGGACATCAATGGAGAAATTTAT  
GATGAGTACGACGAGGAAGAGGATGATCCAGATGTAGATTATGGGAGTGACAGTAAAACCATATTGCAG  
GACAAGCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219387 representing NM\_178010  
 Red=Cloning site Green=Tags(s)

MHDEVAQPLNLSAKPKTSDGKSPTSPTSPHMPALRINSGAGPLKASVPAALASPSARVSTIGYLNHDHDAV  
 TKAIQEARMKEQLRREQQVLDGKVAVVNSLGLNNCRTEKEKTTLESLTQQLAVKQNEEGKFHAMMDFN  
 LSGSDGSAGVSESRIRYRESRGRGSNEPHIKRPMNAFMVWAKDERRKILQAFPDMHNSNISILGSRWKA  
 MTNLEKQPYEEQARLSKQHLEKYPDYKYKPRPKRTCLVDGKKLRIGEYKAIMRNRQEMRQYFNVGQQA  
 QIPIATAGVVYPGAIAMAGMPSPHLPSEHSSVSSSPEPGMPVIQSTYGVKGEEPHIKEEIQAEINGEIIY  
 DEYDEEEDDPDVYDGSSENHIAGQAN

TRTRPLE - GFP Tag - V

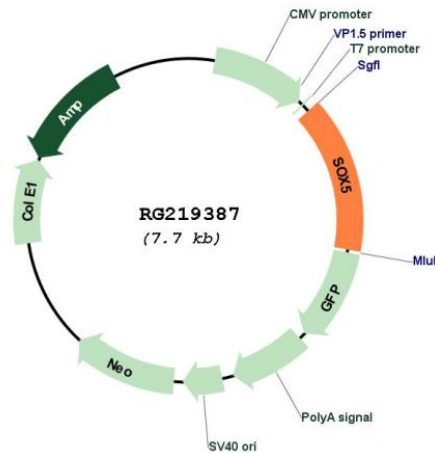
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_178010

<b>ORF Size:</b>	1131 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_178010.4</a>
<b>RefSeq Size:</b>	3095 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	6660
<b>UniProt ID:</b>	<a href="#">P35711</a>
<b>Cytogenetics:</b>	12p12.1
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]