

## Product datasheet for **RG211525**

### SOX6 (NM\_017508) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_017508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX6
Synonyms:	HSSOX6; SOXD; TOLCAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211525 representing NM\_017508  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAAGAATGTCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTGCAGCTGATGGAGAGGATGCAATGA  
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 ATCAATGGAGAGGATGAAATGGAATGTATGATGACTATGAAGATGACCCCAAATCAGACTATAGCAGTG  
 AAAATGAAGCCCGGAGGCTGTCAGTGCCAAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG211525 representing NM\_017508  
 Red=Cloning site Green=Tags(s)

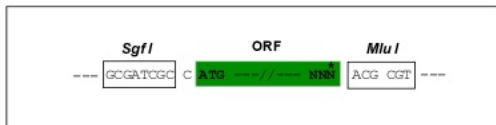
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INGEDEMEMYDDYEDDPKSDYSSENEAPEAVSAN
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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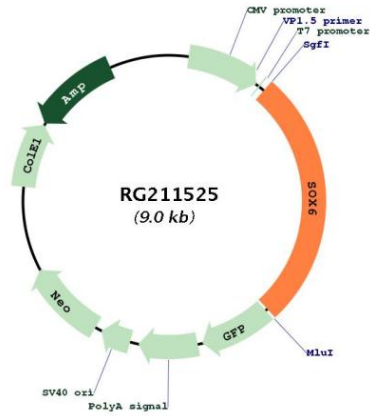
              Kozac
              Consensus
          SgfI  AscI
          -----
EcoRI  BamHI KpnI  RBS
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII  NheI  RsrII  MluI  NotI  XhoI  GFP Tag
CAAGCTTAAGTACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC ---
                                     T  R  T  R  P  L  E  M  E  S  D  -  -  -
PmeI  FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
-  -  E  E  R  V  Stop
    
```

ACCN: NM\_017508  
 ORF Size: 2412 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_017508.2</a>
<b>RefSeq Size:</b>	5158 bp
<b>RefSeq ORF:</b>	2406 bp
<b>Locus ID:</b>	55553
<b>UniProt ID:</b>	<a href="#">P35712</a>
<b>Cytogenetics:</b>	11p15.2
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RG211525