

## Product datasheet for **RG210859**

### SOX3 (NM\_005634) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX3 (NM_005634) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX3
Synonyms:	GHDX; MRGH; PHP; PHPX; SOXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210859 representing NM\_005634  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGACCTGTTTCGAGAGAACTCATCAGGTGCGAGAAGCCCGCGGTTCTCTGCTGATTTGGCGCGGAGCA  
 TTTTGATAAGCCTACCCTTCCCGCCGACTCGCTGGCCACAGGCCCAAGCTCCGCTCCGACGGAGTC  
 CCAGGGCCTTTTACCGTGGCCGCTCCAGCCCCGGGAGCGCCTTCTCTCCCGCCACGCTGGCGCACCTT  
 CTTCCCGCCCCGCAATGTACAGCCTTCTGGAGACTGAACTCAAGAACCCTAGGGACACCCACACAAG  
 CGGCGGGACCGCGGCCCGCAGCCCCGGGAGGCGCAGGCAAGAGTAGTGCGAACGCAGCCGGCGCGC  
 GAACTCGGGCGGCGCAGCAGCGGTGGTGCAGCGGAGGTGGCGGGGTACAGACCAGGACCGTGTGAAA  
 CGGCCATGAACGCTTATGGTATGGTCCCGCGGCAGCGCGCAAAATGGCCCTGGAGAACCCCAAGA  
 TGCACAATTCTGAGATCAGCAAGCGCTTGGCGCCGACTGGAAACTGCTGACCGACGCCGAGAAGCGACC  
 ATTCATCGACGAGCCAAGCGACTTCGCGCCGTGCACATGAAGGAGTATCCGGACTACAAGTACCGACCG  
 CGCCGCAAGACCAAGACGCTGCTCAAGAAAGATAAGTACTCCCTGCCAGCGGCCTCTGCCTCCCGGTG  
 CCGCGGCCCGCCGCGCCGCTGCCGCGGCCGAGCCGCTGCCGCCAGCAGTCCGGTGGGCGTGGGCCAGCG  
 CCTGGACACGTACACGCACGTGAACGGCTGGGCCAACGGCGCGTACTCGCTGGTGCAGGAGCAGCTGGGC  
 TACGCGCAGCCCCGAGCATGAGCAGCCCGCCGCGCCGCGCCGCTGCCGCCATGCACCGCTACGACA  
 TGGCCGGCCTGCAGTACAGCCCAATGATGCCGCCCGCGCTCAGAGCTACATGAACGTGCTGCCGCGGC  
 CGCCCGCCCTCGGGCTACGGGGCATGGCGCCCTCAGCCACAGCAGCCGCGCCGCCCTACGGGCAG  
 CAGCCCGCCACCAGCCGCGCCGCGCTGCGGCCGAGCCGCCATGAGCCTGGGCCCATGGGCTCGGTAG  
 TGAAGTCTGAGCCAGCTCGCCGCGCCGCCATCGCATCGCACTCTCAGCGCGCTGCTCGGCGACCT  
 GCGCGACATGATCAGCATGTACCTGCCACCCGGGGGACGCGCGCCGCGCCCTCTCCGCTGCCCGGC  
 GGTCCGCTGCACGGCGTGCACCAGCACTACCAGGGCGCCGGGACTGCAGTCAACGGAACGGTCCCGCTGA  
 CCCACATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG210859 representing NM\_005634  
 Red=Cloning site Green=Tags(s)

MRPVRENSGARSPRVPADLARSILISLFPFPDLSLAHRPPSSAPTESQGLFTVAAPAPGAPSPATLAHL  
 LPAPAMYSLLETELKNPVGTPPTQAAGTGGPAAPGGAGKSSANAAGGANSGGGSSGGASGGGGTDQDRVK  
 RPMNAFMVWSRGQRKMALENPKMHNSEISKRLGADWLLTDAEKRPFIDEAKRLRAVHMKEYPDYKYP  
 RRKTKTLKKDKYSLPSGLLPPGAAAAAAAAAAAAAAAASSPVGVGQRLDITYTHVNGWANGAYSLVQEQLG  
 YAQPPSMSSPPPPALPPMHRYDMAGLQYSPMPPGAQSYMNVAAAAAAAAASGYGGMAPSATAAAAAAYGQ  
 QPATAAAAAAAAAAMSLGPMGSVVKSEPSPPPAIASHSQRACLGDLRDMISMYLPPGGDAADAASPLPG  
 GRLHGVHQHYQGAGTAVNGTVPLTHI

**TR**TRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005634

**ORF Size:** 1338 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

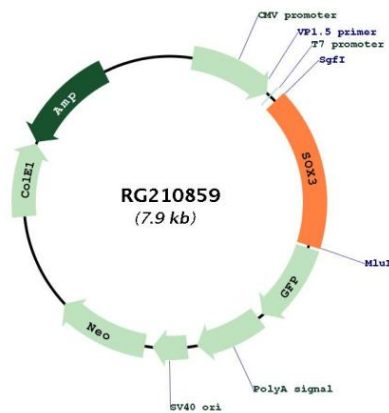
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_005634.3](#)

RefSeq Size: 2074 bp  
 RefSeq ORF: 1341 bp  
 Locus ID: 6658  
 UniProt ID: [P41225](#)  
 Cytogenetics: Xq27.1

**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. Mutations in this gene have been associated with X-linked cognitive disability with growth hormone deficiency. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG210859