

## Product datasheet for **RR206987**

### Sox2 (NM\_001109181) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sox2 (NM_001109181) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sox2
Synonyms:	RGD1565646
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR206987 representing NM_001109181 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATAACATGATGGAGACGGAGCTGAAGCCGGCCCTCAGCAAGCTTCGGGGGGCGGCGGGAG  
GAGGCAACGCCACGGCGGCGGACCGGCGCAACCAGAAGAACAGCCCGG[AT]CCGCGTCAAGAGGCC  
CATGAATGCCTTCATGGTGTGGTCCCGGGGCGAGCGCGTAAGATGGCCAGGAGAACCCCAAGATGCAC  
AACTCGGAGATCAGCAAGCGCTGGGCGCCGAGTGAAACTTTTGTGGAGACCGAGAAGCGCCGTTCA  
TCGACGAGGCCAAGCGGCTGCGGCTCTGCACATGAAGGAGCACCCGATTATAAATACCGCCGCGGCG  
GAAAACCAAGACGCTCATGAAGAAGGATAAGTACACGCTTCCCGGAGGCTTGCTGGCCCCGGCGGGAAC  
AGCATGGCGAGCGGGTTGGGTGGGCGCCGCGCTGGGTGCGGGCGTGAACCAGCGCATGGACAGCTACG  
CGCACATGAACGGCTGGAGCAACGGCAGCTACAGCATGATGCAGGAGCAGCTGGGCTACCCGAGCACCC  
GGGCTCAACGCTCACGGCGCGGACAGATGCAGCCGATGCACCGCTACGACGTACGCGCCCTGCAGTAC  
AACTCCATGACCAGCTCGCAGACCTACATGAACGGCTCGCCACCTACAGCATGTCTACTCGCAGCAGG  
GCACCCCGGTATGGCGTGGGCTCCATGGGCTCTGTGGTCAAGTCCGAGGCCAGTTCAGCCCCCGT  
GGTTACCTTTCCTCCACTCCAGGGCGCCCTGCCAGGCCGGGACCTCCGGGACATGATCAGCATGTAC  
CTCCCCGGCGCCGAGGTGCCGGAGCCGCTGCGCCAGTAGACTGCACATGGCCAGCACTACCAGAGCG  
GCCCGTGCCTCGCACGGCCATTAACGGCACACTGCCCTGTGCACATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR206987 representing NM\_001109181  
 Red=Cloning site Green=Tags(s)

MYNMMETELKPPGPQQASGGGGGGGNATAAATGGNQKNXPXRVKRPMNAFMVWSRGQRKMAQENPKMH  
 NSEISKRLGAEWKLLSETEKRFIDEAKRLRALHMKEHPDYKYRPRRKTLMKKDKYTLPGLLAPGGN  
 SMASGVGVGAGLGAGVNRMDSYAHMNGWSNGSYSMMQEQLGYPQHPGLNAHGAAQMOPMHRVDVSALQY  
 NSMTSSQTYMNGSPTYSMSYSQQGTPGMALGSMGSVVKEASSPPVVTSSSHSRAPCQAGDLRDMISMY  
 LPGAEVPEPAAPSR LHMAQHYQSGPVPGTAINGTLPLSHM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2124\\_h03.zip](https://cdn.origene.com/chromatograms/ja2124_h03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001109181

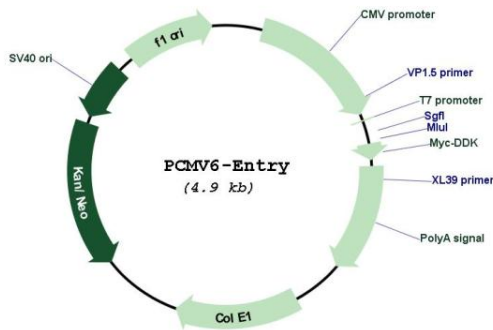
**ORF Size:** 957 bp

**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\\_001109181.1](#), [NP\\_001102651.1](#)
- RefSeq Size:** 2323 bp
- RefSeq ORF:** 960 bp
- Locus ID:** 499593
- Cytogenetics:** 2q24
- MW:** 34.4 kDa

**Product images:**



Circular map for RR206987