

## Product datasheet for MR205890

### Sox18 (NM\_009236) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sox18 (NM_009236) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sox18
Synonyms:	A1385749; Ra; Ragl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205890 representing NM_009236 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAGATCGCCGCCGGCTACGGCGCACAGGACGACCCGCCCTCCCGCCGACTGTGCATGGGCC  
CTGGAATCGGGCCGCTGCTGAGGCGCGGCCCTCCCTGTACCAACGTCTCGCCACCTCGCCCGCTC  
CCCGTCCAGCCTCCGCGGAGCCACCGCGCAGCCCCGAATCAGGGCGCTATGGCTTTGGCCGGGAGAG  
CGCCAACTGCCGACGAGTTGCGCATTGCGCGGCCATGAACGCCTTCATGGTGTGGCGAAGGACGAGC  
GCAAGCGACTGGCGCAACAAAATCCGGATCTGCACAACGCAGTACTGAGCAAGATGCTGGGCAAAGCGTG  
GAAGGAGCTGAACACGGCGGAGAAGCGGCCCTTCGTGGAAGAGGCCGAACGGCTGCGTGTGACGACTTG  
CGCGACCATCCCAACTACAAGTACCGGCCCTCGCCGCAAAAAACAGGCGCGCAAGTCCGGAGGCTGGAGC  
CGGGCCTCTTGCTCCCGGCCCTCGTGCAGCCGTCTGCGCCGCCGAGGCCTTCGCTGCAGCGTCAGGGTC  
AGCTCGCTCCTTCGCGGACTACCCACTCTGGGTGCGGAGTTCGATGGCTTGGGGTACCCACGCCCGAG  
CGCTCGCCTCTGGACGGCCTGGAGCCTGGCGAGGCCTCCTTCTCCACCGCCTTTGGCGCCGAGGACT  
GCGCTCTGCGGGCTTTCCGGCACCCATGCCCCCTGAGCTGGCACGGGACCCGAGCTTCTGCTACGGGGC  
GCCCTGGCTGAAGCGCTCAGGACAGCGCCGCTGCCGCGCCACTCGCAGTCTCTACTATGGCACCCCTG  
GGCACTCCGGGCCGTTTCCCAATCCTCTGTACCACCACCTGAGTCCCGTCTCTTGGGGCACAGAGC  
AACTGGAGCCTACCGCCGACCTTTGGGCCGATGTGGACCTCACCGAATTTGACCAGTATCTCAATTGCAG  
CCGGACTCGACCGGATGCCACTACACTCCCTACCACGTGGCACTGGCCAACTAGGTCCGCGCGCCATG  
TCCTGTCCAGAAGAGAGCAGCCTCATTTCTGCGTGTCTGATGCTAGCAGCGCGTCTATTACAGTGCTT  
GCATCTCAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205890 representing NM\_009236  
Red=Cloning site Green=Tags(s)

MQRSPPGYGAQDDPPSRRDCAWAPGIGAAAEEARGLPVTNVSPSPASPSLPRSPRSPESGRYGFGRGE  
 RQTADELRIRRPMNAMFMWAKDERKRLAQONPDLHNAVL SKMLGKAWKELNTAEKRPFVEEAERLRVQHL  
 RDHPNPKYRPRRKKQARKVRRLEPGLLLPGLVQPSAPPEAF AAASGSARSFRELPTLGA EFDGLGLPTPE  
 RSPLDGLPEGEASFPPPLAPEDCALRAFRAPYAPELARDP SFCYGAPLAEALRTAPPAAPLAGL YYGTL  
 GTPGPFNPPLSPPPEPSLEGTQLEPTADLWADVDL TEFDQYLNC SRRTRPDATTLPHYVALAKLGPRAM  
 SCPEESSLISALSDASSAVVYYSACISG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9044\\_g04.zip](https://cdn.origene.com/chromatograms/mm9044_g04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009236

**ORF Size:** 1131 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\\_009236.2](#), [NP\\_033262.2](#)

**RefSeq Size:** 1619 bp

**RefSeq ORF:** 1134 bp

**Locus ID:** 20672

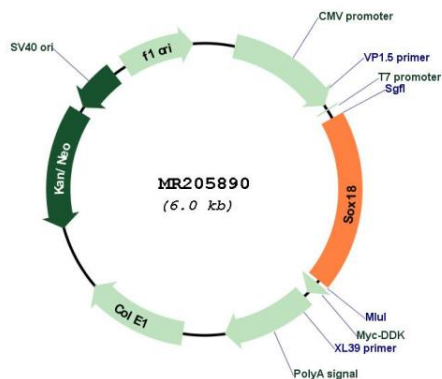
**UniProt ID:** [P43680](#)

**Cytogenetics:** 2 103.71 cM

**MW:** 41.3 kDa

**Gene Summary:** Transcriptional activator that binds to the consensus sequence 5'-AACAAAG-3' in the promoter of target genes and plays an essential role in embryonic cardiovascular development and lymphangiogenesis (PubMed:7651823, PubMed:10742113, PubMed:12748961, PubMed:18931657, PubMed:19429912, PubMed:26939885). Activates transcription of PROX1 and other genes coding for lymphatic endothelial markers (PubMed:18931657, PubMed:26939885). Plays an essential role in triggering the differentiation of lymph vessels, but is not required for the maintenance of differentiated lymphatic endothelial cells (PubMed:18931657). Plays an important role in postnatal angiogenesis, where it is functionally redundant with SOX17 (PubMed:16895970). Interaction with MEF2C enhances transcriptional activation (PubMed:11554755). Besides, required for normal hair development (PubMed:11094083, PubMed:12748961).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205890