

Product datasheet for **MG205890**

Sox18 (NM_009236) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sox18 (NM_009236) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sox18
Synonyms: AI385749; Ra; Ragl
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MG205890 representing NM_009236
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCAGAGATCGCCGCCCGCTACGGCGCACAGGACGACCCGCCCTCCCGCCGCGACTGTGCATGGGCC
 CTGGAATCGGGGCGCTGCTGAGGCGCGCGCCCTCCCTGTACCAACGTCTCGCCACCTCGCCCGCCT
 CCGTCCAGCCTCCGCGGAGCCACCGCGCAGCCCCGAATCAGGGCGCTATGGCTTTGGCCGCGGAGAG
 CGCCAAACTGCCGACGAGTTGCGCATTGCGCGGCCATGAACGCCTTCATGGTGTGGGCGAAGGACGAGC
 GCAAGCGACTGGCGCAACAAAATCCGGATCTGCACAACGCACTACTGAGCAAGATGCTGGCAAAGCGTG
 GAAGGAGCTGAACACGGCGGAGAAGCGGCCCTTCGTGGAAGAGGCCGAACGGCTGCGTGTGCAGCACTTG
 CGCGACCATCCCAACTACAAGTACCGGCCTCGCCGCAAAAAACAGGCGCGCAAGGTCCGGAGGCTGGAGC
 CGGGCCTTGTCTCCCGGCCCTCGTGCAGCCGTCTGCGCCGCCGAGGCCTTCGCTGCAGCGTCAGGGTC
 AGCTCGCTCCTCCGCGAGCTACCCACTCTGGGTGCGGAGTTCGATGGCTTGGGGCTACCCACGCCCGAG
 CGCTCGCTCTGGACGGCCTGGAGCCTGGCGAGGCCTCCTTCTCCACCGCCTTTGGCCGCCGAGGACT
 CGCTCTGCGGGCTTTCCGGCACCCATGCCCTGAGCTGGCACGGGACCCGAGCTTCTGCTACGGGGC
 GCCCTGGCTGAAGCGCTCAGGACAGCGCCGCTGCGCGCCACTCGCAGGTCTCTACTATGGCACCCCTG
 GCACTCCGGGCCGTTTCCCAATCCTCTGTACCACCACCTGAGTCCCGTCTCTTGGGGCACAGAGC
 AACTGGAGCCTACCGCCGACCTTTGGGCCGATGTGGACCTCACCGAATTTGACCAGTATCTCAATTGCAG
 CCGGACTCGACCGGATGCCACTACCTCCCTACCACGTGGCACTGGCCAACTAGGTCGCGCGCCATG
 TCCTGTCCAGAAGAGAGCAGCCTCATTCTGCGCTGTCTGATGCTAGCAGCGGGTCTATTACAGTGCTT
 GCATCTCAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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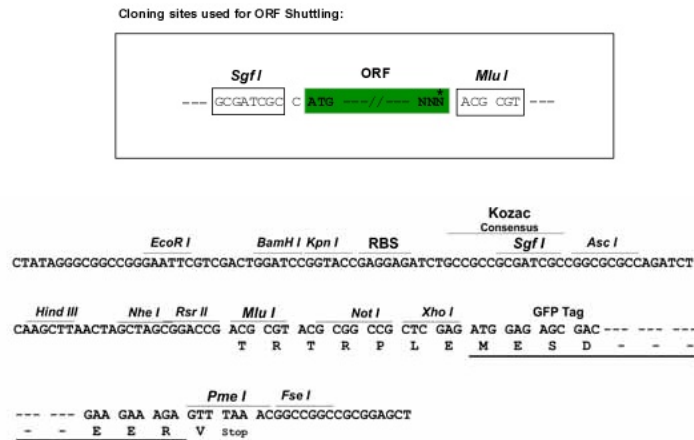
Protein Sequence: >MG205890 representing NM_009236
 Red=Cloning site Green=Tags(s)

MQRSPPGYGAQDDPPSRRDCAWAPGIGAAAEEARGLPVTNVSPTSPASPSSLPRSPRRSPESGRYGFGRGE
 RQTADELRIRRPMAFMVWAKDERKRLAQONPDLHNAVL SKMLGKAWKELNTAEKRPFVEEAERLRVQHL
 RDHPNYKYRPRRKKQARKVRRLEPGLLLPGLVQPSAPPEAF AAASGSARSFRELPTLGAEFDGLGLPTPE
 RSPLDGLPEGEASFPPPLAPEDCALRAFRAPIYAPELARDPSFCYGAPLAEALRTAPPAAPLAGLYYGTL
 GTPGPFNPPLSPPPEPSLEGTQLEPTADLWADVDLTEFDQYLNCSRTRPDATTLPHYVALAKLGPRAM
 SCPEESSLISALSDASSAVVYYSACISG

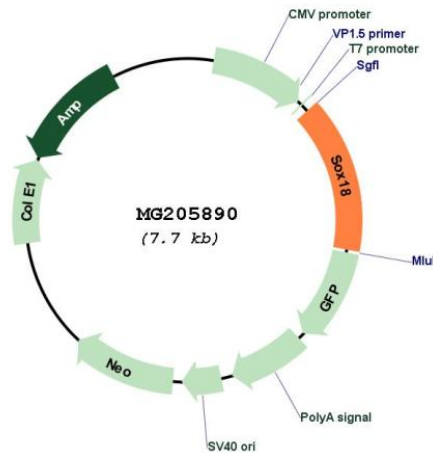
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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.
RefSeq:	NM_009236.2 , NP_033262.2
RefSeq Size:	1619 bp
RefSeq ORF:	1134 bp
Locus ID:	20672
UniProt ID:	P43680
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]