

Product datasheet for MR204615

Sox2 (NM_011443) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox2 (NM_011443) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sox2
Synonyms:	Ic; lcc; Sox; Sox-2; ys; ysb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204615 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATAACATGATGGAGACGGAGCTGAAGCCGGCCCGCAGCAAGCTTCGGGGGGCGGCGGGAG
GAGGCAACGCCACGGCGGCGGACCGGCGCAACCAGAAGAACAGCCCGGACCGCGTCAAGAGGCCAT
GAACGCCATCATGGTATGGTCCCGGGGCGAGCGCGTAAGATGGCCAGGAGAACCCTAAGATGCACAAC
TCGGAGATCAGCAAGCGCTGGGCGGGAGTGAAACTTTGTCCGAGACCGAGAAGCGGCCGTTTCATCG
ACGAGGCCAAGCGCTGCGCGCTCTGCACATGAAGGAGCACCCGATTATAAATACCGGCCGCGGGGAA
AACCAAGACGCTCATGAAGAAGGATAAGTACACGCTTCCCGGAGGCTTGCTGGCCCCGGCGGGAACAGC
ATGGCGAGCGGGTTGGGTGGGCGCCGCGCTGGGTGCGGGCGTGAACCAGCGCATGGACAGCTACGCGC
ACATGAACGGCTGGAGCAACGGCAGCTACAGCATGATGCAGGAGCAGCTGGGCTACCCGCAGCACCCGGG
CCTCAACGCTCACGGCGCGGCACAGATGAACCGATGCACCGCTACGACGTACGCGCCCTGCAGTACAAC
TCCATGACCAGCTCGCAGACCTACATGAACGGCTCGCCACCTACAGCATGTCTACTCGCAGCAGGGCA
CCCCGGTATGGCGTGGGCTCCATGGGCTCTGTGGTCAAGTCCGAGGCCAGCTCCAGCCCCCGTGGT
TACCTCTTCTCCACTCCAGGGCGCCCTGCCAGGCCGGGACCTCCGGGACATGATCAGCATGTACCTC
CCCGGCCGAGGTGCCGAGCCCGCTGCGCCAGTAGACTGCACATGGCCAGCACTACCAGAGCGGCC
CGGTGCCCGGCACGGCCATTAACGGCACACTGCCCTGTGCGACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204615 protein sequence
Red=Cloning site Green=Tags(s)

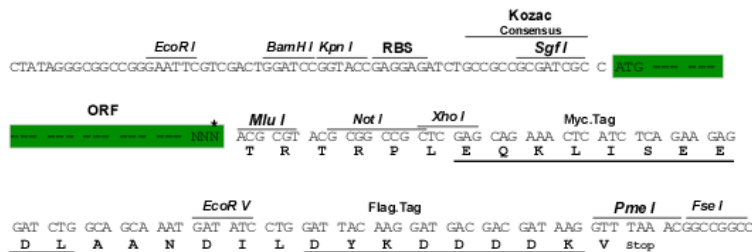
MYNMMETELKPPGPQQASGGGGGGGNATAAATGGNQKNSPDRVKRPMNAFMVWSRQRRKMAQENPKMHN
 SEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHPDYKYRPRRKTTLMKKDKYTLPGLLAPGGNS
 MASGVGVGAGLGAGVNRMDSYAHMNGWSNGSYSMMQEQLGYPQHPGLNAHGAQMOPMHRVDVSALQYN
 SMTSSQTYMNGSPTYSMSYSQQGTPGMALGSMGSVVKSEASSPPVVTSSSHSRAPCQAGDLRDMISMYL
 PGAEVPEPAAPSRLHMAQHYQSGPVPGTAINGTLPLSHM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011443

ORF Size: 960 bp

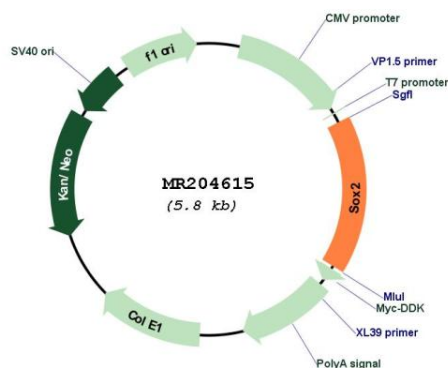
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<ol style="list-style-type: none"> 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:	<u>NM_011443.4</u>
RefSeq Size:	2457 bp
RefSeq ORF:	960 bp
Locus ID:	20674
UniProt ID:	<u>P48432</u>
Cytogenetics:	3 16.93 cM
MW:	34.4 kDa
Gene Summary:	This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in a similar gene in human have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (Sox2ot). [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR204615