

Product datasheet for RC200757

SOX2 (NM_003106) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX2 (NM_003106) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SOX2
Synonyms:	ANOP3; MCOPS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200757 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACAACATGATGGAGACGGAGCTGAAGCCGCGGGCCCGCAGCAAACCTCGGGGGCGGCGGGCA
ACTCCACCGGGCGGGCGGGCGGCAACCAGAAAAACAGCCCGGACCGCGTCAAGCGGCCCATGAATGC
CTTCATGGTGTGGTCCCAGGGCAGCGGCAGCAAGATGGCCAGGAGAACCCCAAGATGCACAACCTCGGAG
ATCAGCAAGCGCCTGGGCGCGAGTGAAACTTTTGTCCGAGACGGAGAAGCGGCCGTTTCATCGACGAGG
CTAAGCGGCTGCGAGCGCTGCACATGAAGGAGCACCCGATTATAAATACCGGCCCGGGCGAAAACCAA
GAGCGCTCATGAAGAAGGATAAGTACACGCTGCCCGGGCGGCTGCTGGCCCCGGCGCAATAGCATGGCG
AGCGGGGTTCGGGTGGGCGCGGCTGGGCGGGCGTGAACCAGCGCATGGACAGTTACCGGCACATGA
ACGGCTGGAGCAACGGCAGCTACAGCATGATGCAGGACCAGCTGGGCTACCCGAGCACCAGGGCTCAA
TGCGCACGGCGCAGCGCAGATGCAGCCATGCACCGCTACGACGTGAGCGCCCTGCAGTACAACCTCCATG
ACCAGCTCGCAGACCTACATGAACGGCTCGCCACCTACAGCATGTCTACTCGCAGCAGGGCACCCTG
GCATGGCTCTTGGCTCCATGGGTTCCGTTGGTCAAGTCCGAGGCCAGCTCCAGCCCCCTGTGGTTACCTC
TTCTCCCACTCCAGGGCGCCCTGCCAGGCCGGGACCTCCGGGACATGATCAGCATGTATCTCCCCGGC
GCCGAGGTGCCGAACCCGCCGCCCCAGCAGACTTCACATGTCCAGCACTACCAGAGCGGCCCGGTGC
CCGGCACGGCCATTAACGGCACACTGCCCTCTCACACATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_003106.4](#)

RefSeq Size: 2520 bp

RefSeq ORF: 954 bp

Locus ID: 6657

UniProt ID: [P48431](#)

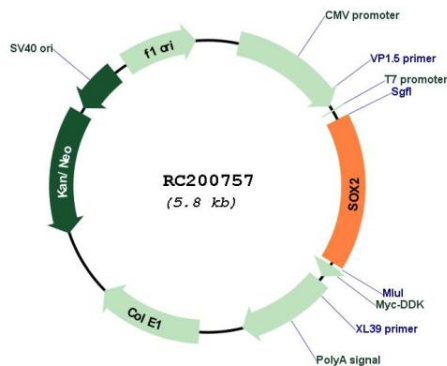
Cytogenetics: 3q26.33

Protein Families: Adult stem cells, Cancer stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

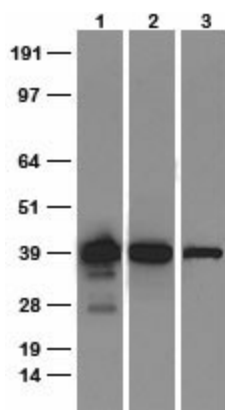
MW: 34.3 kDa

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 this gene 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, Jul 2008]

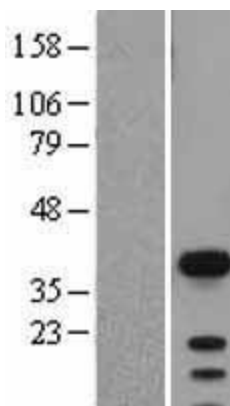
Product images:



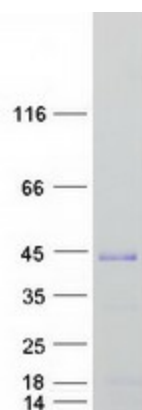
Circular map for RC200757



Western blot analysis of extracts from NCCIT cell line (35ug, lane 1), F9 cell line (35ug, lane 2) and HEK293T cells transfected with pCMV6-ENTRY_SOX2 cDNA-RC200757 (5ug, lane 3), using anti-SOX2 rabbit monoclonal antibody ([TA591006]) at 1:500 dilution.



Western blot validation of overexpression lysate (Cat# [LY401083]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200757 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SOX2 protein (Cat# [TP300757]). The protein was produced from HEK293T cells transfected with SOX2 cDNA clone (Cat# RC200757) using MegaTran 2.0 (Cat# [TT210002]).