

Product datasheet for MR229814

Sox17 (NM_001289464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox17 (NM_001289464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sox17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229814 representing NM_001289464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGCCCGGATGCGGGATACGCCAGTGACGACCAGAGCCAGCCCCGGAGCGCGCAGCCCGCGGTGA
TGGCAGGGTTGGGCCCTGTCCCTGGGCCGAGTCCCTGAGCCCCCTCGGGGATGTAAGGTGAAAGGCGA
GGTGGTGGCGAGTAGCGGGGCGCCAGCCGGGACGTCGGGCCGAGCCAAAGCGGAGTCTCGCATCCGGCGG
CCGATGAACGCCCTTTATGGTGTGGGCCAAAGACGAACGCAAGCGGTTGGCACAGCAGAACCAGATCTGC
ACAACGCAGAGCTAAGCAAGATGCTAGGCAAGTCTTGAAGGCGTTGACCTTGGCAGAGAAGCGGCCCTT
CGTGGAAGAGGCCGAGCGGCTGCGCGTGACGATATGCAGGACCACCCCACTACAAGTACCGGCCGCGG
CGGCGCAAGCAGGTGAAGCGCATGAAGCGGTTGGAGGGAGGCTTCTGTCAGCTCTCGTCGAGCCCCAGG
CCGGCGCGCTTGGTCCCAGGGCGGCCGCTGGCCATGGATGGCCTGGGTCTGCCTTTCCCGGAGCCGGG
CTATCCGGCCGGTCTCCGCTGATGTCTCCGCACATGGGCCCCACTATCGGGACTGCCAGGGACTGGGC
GCTCCCGCGCTCGACGGTACCTCTGCCACTCCGGACACATCCCGCTGGATGGCGTGGAGCAGGACC
CGGCTTTCTTTGAGCCCGCTGCCAGGGGACTGCCCGGCCGGCCACCTACACTTACGCTCCAGTCTC
GGACTATGCAGTGTCCGTAGAGCCGCCGCTGGCCCCATGCGAGTGGGGCCGACCCCTCGGGCCCTGCC
ATGCCGGGATCCTGGCGCCCCAGCGCTCTGCACCTGTACTACGGCGGATGGGCTCGCCCGCCGCAA
GTGCGGGGCGCGGTTTCCACGCGCAACCCAGCAGCCGCTGCAACCGCAGGCACCCGCCGCCACCGCA
GCAGCAGCACCCAGCGCACGGCCCCGGCAACCTTCGCCCTCCCGAGGCTCTGCCCTGCCGGGATGGC
ACGGAATCCAACCCAGCCACTGAGCTCCTAGGGGAGGTGGACCGCACGGAATTCGAACAGTATCTGCCCT
TTGTGTATAAGCCCGAGATGGGTCTTCCCTACCAGGGACAGACTGCGGAGTGAACCTCTCAGACAGCCA
CGGAGCCATTTCTCCGTGGTGTCCGACGCTAGCTCAGCGGTCTACTATTGCAACTACCCCGACATT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229814 representing NM_001289464
Red=Cloning site Green=Tags(s)

MSSPDAGYASDDQSQPRSAQPAVMAGLGPCPWAESL SPLGDVKVKGEVVASSGAPAGTSGRAKAESRIRR
 PMNAFMVWAKDERKRLAQQNPDLHNAEL SKMLGKSWKAL TLAEKRPFVEEAERLRVQHMQDHPNYKYRPR
 RRKQVKRMKRVEGGFLHALVEPQAGALGPEGGRVAMDGLGLPFPEPGYPAGPPLMSPHMGPHYRDCQGLG
 APALDGYPPLTPDTSPLDGVEQDPAFFAAPLPGDCPAAGTYTYAPVSDYAVSVEPPAGPMRVGPDPSGPA
 MPGILAPPSALHLYYGAMGSPAASAGRGFHAQPQPLQPQAPPPPPQQQHPAHGPGQPSPPPEALPCRDG
 TESNQPTTELLGEVDRTEFEQYLPFVYKPEMGLPYQGHDCGVNLSDSHGAISSVSDASSAVYYCNYPDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001289464

ORF Size: 1257 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001289464.1](#), [NP_001276393.1](#)

RefSeq Size: 3288 bp

RefSeq ORF: 1260 bp

Locus ID: 20671

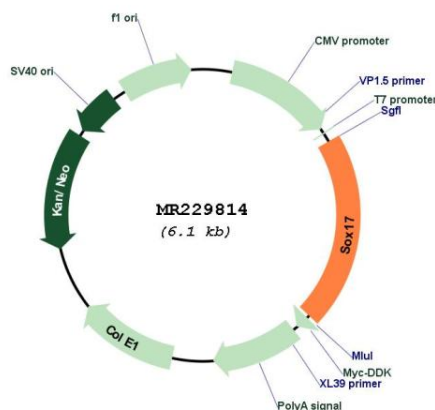
UniProt ID: [Q61473](#)

Cytogenetics: 1 1.65 cM

MW: 45.1 kDa

Gene Summary: This gene encodes a member of the Sox (Sry-related high mobility group box) family of transcription factors involved in the regulation of embryonic development. The encoded protein plays a role in the determination of cell fate and in maintaining cell identity. This gene regulates tumor angiogenesis and tumor progression. Mutations in the human gene are associated with vesicoureteral reflux, characterized by the backward flow of urine from the bladder into the ureters or the kidney. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:



Circular map for MR229814