

Product datasheet for **RG220888**

SOX17 (NM_022454) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SOX17 (NM_022454) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SOX17
Synonyms: VUR3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220888 representing NM_022454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAGCCCGGATGCGGGATACGCCAGTGACGACCAGAGCCAGACCCAGAGCGCGCTGCCCGGGTGA
 TGGCCGGGCTGGGCCCTGCCCTGGGCCGAGTCGCTGAGCCCCATCGGGGACATGAAGGTGAAGGGCGA
 GGCAGCGGCAACAGCGGAGCACCGGCCGGGGCCGCGGGCCGAGCAAGGGCGAGTCCCCTATCCGCGG
 CCGATGAACGCTTTCATGGTGTGGGCTAAGGACGAGCGCAAGCGGCTGGCGCAGCAGAATCCAGACTGC
 ACAACCGCGAGTTGAGCAAGATGCTGGCAAGTCGTGGAAGGCGCTGACGCTGGCGGAGAAGCGGCCCTT
 CGTGGAGGAGGCAGAGCGGCTGCGCGTGCAGCACATGCAGGACCACCCAACTACAAGTACCGGCCGCGG
 CGGCGCAAGCAGGTGAAGCGGCTGAAGCGGGTGGAGGGCGGCTTCTGACGCGCTGGCTGAGCCGAGG
 CGGCCGCGCTGGGCCCGAGGGCGGCCGCTGGCCATGGACGGCCTGGGCTCCAGTTCCCCGAGCAGGG
 CTTCCCCGCCGGCCCGCTGCTGCCTCCGCACATGGGCGGCCACTACCGGACTGCCAGAGTCTGGGC
 GCGCCTCCGCTCGACGGTACCCGTTGCCACGCCGACACGTCCCCGCTGGACGGCGTGGACCCCGACC
 CGGCTTCTTCGCGCCCGATGCCCGGGACTGCCCGCGGCCGCACCTACAGCTACGCGCAGGTCTC
 GGACTACGCTGGCCCCCGGAGCCTCCCGCGGTCCATGCACCCCGACTCGGCCAGAGCCCGCGGGT
 CCCTCGATTCCGGGCTCCTGGCGCCACCCAGCGCCCTCACGTGTAACGGCGGATGGGCTCGCCCG
 GGGCGGGCGGGCGCGGCTTCCAGATGCAGCCGCAACACCAGCACCAGCACCAGCACCAGCACCACCC
 CCCGGGCCCGGACAGCGTCCGCCCCCTCCGGAGGCACTGCCCTGCCGGGACGGCACGGACCCCACTCAG
 CCCCGGAGCTCCTCGGGAGGTGGACCGACGGAATTTGAACAGTATCTGCACTTCGTGTGCAAGCCTG
 AGATGGGCTCCCTACCAGGGCATGACTCCGGTGTGAATCTCCCCGACAGCCACGGGGCCATTTCTC
 GGTGGTGTCCGACGCCAGCTCCGCGGTATTAATGCAACTATCCTGACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG220888 representing NM_022454
Red=Cloning site Green=Tags(s)

MSSPDAGYASDDQSQTQSALPAVMAGLGPCPWAESLSPIGDMKVKGAPANS GAPAGAAGRAKGESRIRR
 PMNAFMVWAKDERKRLAQNPDLHNAELSKMLGKSWKALTLAEKRPFVEEAERLRVQHMQDHPNYKYRPR
 RRKQVKRLKRVEGGFLHGLAEPQAAALGPEGGRVAMDGLGLQFPEQGFPAGPPLLPHPMGGHYRDCQSLG
 APPLDGYPLTPDTSPLDGVDPDAFFAAMPMPGD CPAAGTYSYAQVSDYAGPPEPPAGMPMPRLGPEPAG
 PSIPGLLAPPSALHVYYGAMGSPGAGGGRGFQMOPQHQQHQQHHPGPGQPSPPPEALPCRDGTDPSQ
 PAELLGEVDRTEFEQYLHFVCKPEMGLPYQGHDSGVNLPDSHGAISSVSDASSAVYYCNYPDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022454

ORF Size: 1242 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_022454.4](#)

RefSeq Size: 1853 bp

RefSeq ORF: 1245 bp

Locus ID: 64321

UniProt ID: [Q9H6I2](#)

Cytogenetics: 8q11.23

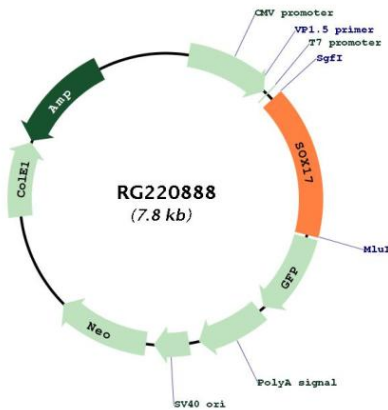
Domains: HMG

Protein Families: Transcription Factors

Protein Pathways: Wnt signaling pathway

Gene Summary: This gene encodes a member of the SOX (SRY-related HMG-box) family of transcription factors involved in the regulation of embryonic development and in the determination of the cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220888