

Product datasheet for **RG205121**

SOX8 (NM_014587) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX8 (NM_014587) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205121 representing NM_014587 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTGGACATGAGCGAGGCCCGCTCCAGCCGCCCTGCAGCCCGTCCGGCACCGCCAGCTCCATGTCGC
ACGTGGAGGACTCGGACTCGGACGCGCCGCGTCTCCGCGCGCTCCGAGGGCTGGGCCGCGGGGGT
CGCGGTGGGGGGCGCCGGGGGACCCGGCGGAGGCGCGGACGAGCGCTTCCGCGCTGCATCCGCGAC
GCCGTGTCGAGGTGCTCAAGGGCTACGACTGGAGTCTGGTGCCCATGCCGTGCGCGCGCGCGCGCG
GCGCGCTCAAAGCCAAGCCGCATGTGAAGCGGCCCATGAACGCATTATGGTGTGGCGCAGGCGCGCG
CCGCAAGCTGGCCGACCACTACCCGCACCTGCACAACGCCGAGCTCAGCAAGACGCTGGGCAAGCTGTGG
CGCTTGCTGAGCGAGAGCGAGAAGCGGCCCTTCGTGGAGGAGGCAGAGCGCCTTCGCGTGACGACAAGA
AGGACCACCCGACTACAAGTACCAGCCACGGCGCAGGAAGAGCGCCAAAGCCGGCCACAGCGACTCCGA
CTCGGGCGCGGAGCTGGGACCCACCCTGGCGCGGTGCCGTGTACAAGGCTGAAGCAGGGCTTGAGAT
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AGCTGCAGCAGGCGGGGCCAAGCCGAGCTGAAGCTGGAGGGACGCGCGCGGTGGACAGCGGGGCCA
GAACATCGACTTCAGCAACGTGGACATCTCGAGCTCAGCAGCGAGGTATGGGCACCATGGACGCTTC
GACGTCCACGAGTTCGACCACTGCTGCCCTGGCGGGCCCCGCCACCCGAGCGGGCCAGGCCTATG
GGGGCGCTACTTCCACGCCGGGCGTCCCCGTGTGGGCCACAAGAGTGCCCCGTGCGCTCCGCGTC
GCCCACCGAGACGGGTCCCCACGGCCGCACATCAAGACGGAGCAGCCGAGCCCCGGCCACTACGGCGAC
CAGCCCCGAGGCTCGCCGACTACGGTTCTGCAGCGGCCAGTCCAGCGCCACCCCGGCCGCCCGCGG
GCCCCCTTCGCGGCTCACAGGGCGACTATGGCGACCTGCAGGCTCCAGTACTATGGTGCTACCTGG
CTACGACCCGGCCTTACCACTACCCCTGCTTCACTCGCCGCGCGGCCCTACGCTACCCCTGCTC
AACGGCTGGCCTGCCGCCGCCACAGCCCCACCACTCACTGGGACCAAGCGGTGTACACCACCTGA
CCAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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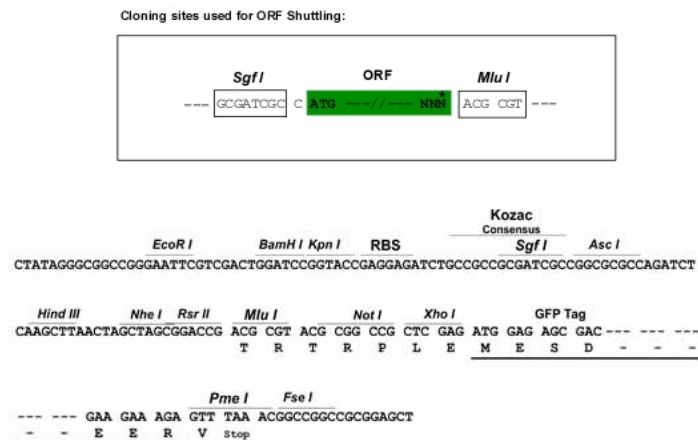
Protein Sequence: >RG205121 representing NM_014587
 Red=Cloning site Green=Tags(s)

MLDMSEARSQPPCSPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGVAVGGARGDPAAEADERFPACIRD
 AVSQVLKGYDWSLVMPVRGGGGALKAKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLW
 RLLSESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSAKAGHSDSDSGAELGPHPGGGAVYKAEAGLGD
 GHHDHTGQTHGPPTPTTPKTELQQAGAKPELKLEGRRPVDSGRQNIIDF SNVDISELSSEVMGTMDAF
 DVHEFDQYLPLGGPAPPEPGQAYGGAYFHAGASPVWAHKAPSASASPTETGPPRPHIKTEQSPGHYGD
 QPRGSPDYGSCSGQSSATPAAPAGPFAQSQGDYDGLQASSYYGAYPGYAPGLYQYPCFHSPPRPYASPLL
 NGLALPPAHSPTSHWDQPVYTTLTRP

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014587

ORF Size: 1338 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_014587.5](#)

RefSeq Size: 3069 bp

RefSeq ORF: 1341 bp

Locus ID: 30812

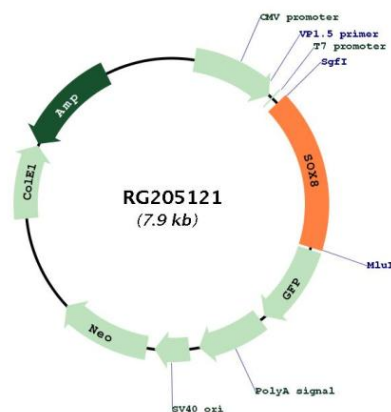
UniProt ID: [P57073](#)

Cytogenetics: 16p13.3

Protein Families: Transcription Factors

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 activator after forming a protein complex with other proteins. This protein may be involved in brain development and function. Haploinsufficiency for this protein may contribute to the cognitive disability found in an alpha-thalassemia-related syndrome (ART-16). This protein is also highly expressed in the majority of human hepatocellular carcinomas and promotes cellular proliferation and enhanced tumor growth. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG205121