

Product datasheet for **RG210697**

SOX13 (NM_005686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX13 (NM_005686) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX13
Synonyms:	ICA12; Sox-13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210697 representing NM_005686
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCATGAGGAGCCCCATCTCTGCCAGCTGGCCCTGGATGGCGTTGGCACCATGGTGAAGTGCACCA
 TCAAGTCAGAGGAGAAGAAAGAGCCTTGCCACGAGGCCCCAGGGCTCAGCCACTGCCGCTGAACCTCA
 GCCTGGAGACCCAGCCGGGCTCCAGGATAGTCTGACCCCAAGCTCCAGCCAGGGGAATTCAGG
 GGCTCCTGGGACTGTAGCTCTCCAGAGGTAATGGGTCCCAGAACCAAGAGACCAGGAGTGTCCGAGG
 CTGCCCTGGAAGCCAGGAGAAGCTGGACTTCAACCGAAATTTGAAAGAAGTGGTCCAGCCATAGAGAA
 GCTGTTGTCCAGTACTGGAAGGAGAGGTTTCTAGGAAGGAAGTCTATGGAAGCCAAAGATGTCAAAGG
 ACCCAAGAGAGCCTAGCAGAGAAGGAGCTCCAGCTTCTGGTCATGATTCACCAGCTGTCCACCCTGCGGG
 ACCAGCTCCTGACAGCCACTCGGAGCAGAAGAACATGGCTGCCATGCTGTTTGAAGCAGCAGCAGCA
 GATGGAGCTTGCCCGGCAGCAGCAGGAGCAGATTGCAAAGCAGCAGCAGCAGCTGATTCAGCAGCAGCAT
 AAGATCAACCTCCTTCCAGCAGCAGATCCAGCAGGTTAACATGCCTTATGTCATGATCCAGCCTTCCCC
 CAAGCCACCAACCTCTGCCTGTACCCCTGACTCCCAGCTGGCCTTACCCATTACGCCCATTCCCTGCAA
 ACCAGTGGAGTATCCGCTGCAGCTGCTGCACAGCCCCCTGCCAGTGGTGAAGAGGCCTGGGGCCATG
 GCCACCCACCACCCCTGCAGGAGCCCTCCAGCCCTGAACCTCACAGCCAAGCCCAAGGCCCCCGAGC
 TGCCCAACACCTCCAGCTCCCAAGCCTGAAGATGAGCAGCTGTGTGCCCGCCCCCAGCCATGGAGG
 CCCACGCGGGACCTGCAGTCCAGCCCCGAGCCTGCCTCTGGGCTTCTTGGTGAAGGGGACGCTGTC
 ACCAAAGCCATCCAGGATGCTCGGCAGCTGCTGCACAGCCACAGTGGGCCTTGGATGCCATCCCAACA
 CCCCCTCCGTAAGGACCTCATCAGCTGGACTCATCCCAGCCAAGGAGCGGCTGGAGGACGGCTGTGT
 GCACCCACTGGAGGAAGCCATGCTGAGCTGCGACATGGATGGCTCCCGCCACTTCCCGAGTCCCGAAAC
 AGCAGCCACATCAAGAGGCCATGAACGCTTTCATGGTGTGGCCAAGGATGAGCGGAGGAAGATCTCTGC
 AAGCCTTCCAGACATGCACAACCTCCAGCATCAGCAAGATCCTTGGATCTCGCTGGAAGTCCATGACCAA
 CCAGGAGAAGCAGCCCTACTATGAGGAACAGGCGGGCTGAGCCGGCAGCACCTGGAGAAGTATCCTGAC
 TACAAGTACAAGCCGGGCCAAGCGCACCTGCATCGTGGAGGGCAAGCGGCTGCGCGTGGGAGAGTACA
 AGGCCCTGATGAGGACCCGGCGTCAGGATGCCCGCAGAGCTACGTGATCCCCCGCAGGCTGGCCAGGT
 GCAGATGAGCTCCTCAGATGTCTGTACCCTCGGGCAGCAGGCATGCCGCTGGCACGCCACTGGTGGAG
 CACTATGTCCCTCGTAGCCTGGACCCCAACATGCCTGTGATCGTCAACACCTGCAGCCTCAGAGAGGAGG
 GTGAGGGCACAGATGACAGGCACTCGGTGGCTGATGGCGAGATGTACCGGTACAGCGAGGACGAGGACTC
 GGAGGGCAAGAGAAGAGCGATGGGGAGTTGGTGGTGCTCACAGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210697 representing NM_005686
 Red=Cloning site Green=Tags(s)

MSMRSPISAQLALDGVGTMVNCTIKSEEKKEPCHEAPQGSATAAEPQPGDPARASQDSADPQAPAQGNFR
 GSWDCSSPEGNGSPEPKRPGVSEAAASGSQEKLDNFNRNLKEVVPATIEKLLSSDWKERFLGRNSMEAKDVKG
 TQESLAEKELQLLVMIHQSTLRDQLLTAHSEQNMAAMLFEKQQQMEELARQQEQIAKQQQLIQQQH
 KINLLQQIQVNMPIVMIPAFPPSHQPLPVTDPDQLALPIQPIPCPKVEYPLQLLHSPAPVVKRPGAM
 ATHHPLQEPSQPLNLTAKPKAPELNTSSPSLKMSSCVPRPPSHGGPTRDLQSSPPSLPLGFLGEGDAV
 TKAIQDARQLLHSHSGALDGSPNTPFRKDLISLDSSPAKERLEDGCVHPLLEEAMLSCDMDGSRHFPESRN
 SSHIKRPMNAFMVWAKDERRKILQAFPMHNSSI SKILGSRWKSMTNQEKPYYEEQARLSRQHLEKYPD
 YKYKPRPKRTCIVEGKRLRVGEYKALMRTRRQDARQSYVIPPQAGQVQMSSDVLYPRAAGMPLAQPLVE
 HYVPRSLDPNMPVIVNTCSLREEEGTDDRHSVADGEMRYSEDEDESEGEKSDGELVVLTD

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005686

ORF Size: 1866 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_005686.3](#)

RefSeq Size: 4088 bp

RefSeq ORF: 1869 bp

Locus ID: 9580

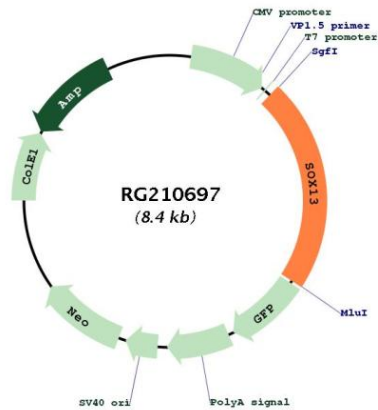
UniProt ID: [Q9UN79](#)

Cytogenetics: 1q32.1

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 cell fate. The encoded protein may act as a transcriptional regulator after forming a protein complex with other proteins. It has also been determined to be a type-1 diabetes autoantigen, also known as islet cell antibody 12. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210697