

Product datasheet for **RG203545**

SOX10 (NM_006941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOX10 (NM_006941) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX10
Synonyms:	DOM; PCWH; WS2E; WS4; WS4C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203545 representing NM_006941
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGAGCAGGACCTATCGGAGGTGGAGCTGAGCCCCGTGGGCTCGGAGGAGCCCCGCTGCCTGT
 CCCCGGGGAGCGGCCCTCGCTAGGGCCCGACGCGCGCGCGGGATCGGGCTGCGAGCCAGCCCGGG
 GCCAGGCGAGCTGGCAAGGTCAAGAAGGAGCAGCAGGACGCGGAGGCGGACGATGACAAGTTCCCCGTG
 TGCATCCGCGAGGCCGTAGCCAGGTGCTCAGCGGCTACGACTGGACGCTGGTGGCCATGCCCGTGC
 TCAACGGCGCCAGCAAAAGCAAGCCGACGTCAAGCGGCCATGAACGCCTTCATGGTGTGGGCTCAGGC
 AGCGCGCAGGAAGCTCGCGGACCAGTACCCGCACCTGCACAACGCTGAGCTCAGCAAGACGCTGGCAAG
 CTCTGGAGGCTGTGAACGAAAGTGACAAGCGCCCTTCATCGAGGAGGCTGAGCGGCTCCGTATGCAGC
 ACAAGAAAGACCACCCGACTACAAGTACCAGCCAGGCGCGGAAGAACGGGAAGGCCGCCAGGGCGA
 GGCGGAGTGCCCGGTGGGAGGCGGAGCAAGGTGGGACCGCCCATCCAGGCCACTACAAGAGCGCC
 CACTTGGACCACCGGCACCCAGGAGAGGGCTCCCCATGTCAGATGGTAACCCCGAGCACCCCTCAGGCC
 AGAGCCATGGCCACCCACCCCTCCAACACCCCGAAGACAGAGCTGCAGTCGGGCAAGGAGACCCGAA
 GCGGGACGGGCGCTCCATGGGGAGGGCGGAAGCCTCACATCGACTTCGGCAACGTGGACATTGGTGGAG
 ATCAGCCACGAGGTAATGTCCAACATGGAGACCTTTGATGTGGCTGAGTTGGACAGTACCTGCCGCCA
 ATGGGCACCCAGGCCATGTGAGCAGCTACTCAGCAGCCGGCTATGGGCTGGGAGTGCCTGGCCGTGGC
 CAGTGGACTCCGCCTGGATCTCCAAGCCACAGGCGTGGCTCTGCCACGGTCTACCCACTGGTGTG
 GATGCCAAAGCCAGGTGAAGACAGAGACCGCGGGGCCACAGGGGCCACACTACCCAGCAGCCAT
 CCACCTACAGATCGCCTACACCTCCCTCAGCCTGCCCACTATGGCTCAGCCTTCCCCTCCATCTCCCG
 CCCCAGTTTGACTACTCTGACCATCAGCCCTCAGGACCTATTATGGCCACTCGGGCCAGGCCTCTGGC
 CTCTACTCGGCCTTCTCTATATGGGGCCCTCGCAGCGGCCCTCTACACGGCCATCTCTGACCCAGCC
 CCTCAGGGCCCCAGTCCACAGCCACACACTGGGAGCAGCCAGTATATACGACTGTCCCGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203545 representing NM_006941
 Red=Cloning site Green=Tags(s)

MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSLRASPGGELGKVKKEQQDGEADDDKFPV
 CIREAVSQVLSGYDWTLVPMPVRVNGASKSKPHVSRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGK
 LWRLNEDSRPFIEEAERLRMQHKDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGTAAIQAHYKSA
 HLDHRHPGEGSPMSDGNPEHPSGQSHGPPTPPTPKTELSGKADPKRDGRSMGEGGKPHIDFGNVDIGE
 ISHEVMSNMETFDAELDQYLPNGHPGHVSSYAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGV
 DAKAQVKTETAGPQPPHYTDQPSTSQIAYTSLSLPHYGSAPPSISRPQFDYSDHQPSGPPYGHSGQASG
 LYSAFSYMGPSQRPLYTAISDPSPSGPQSHSPTHWEQPVYTTLSRP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006941

ORF Size: 1398 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

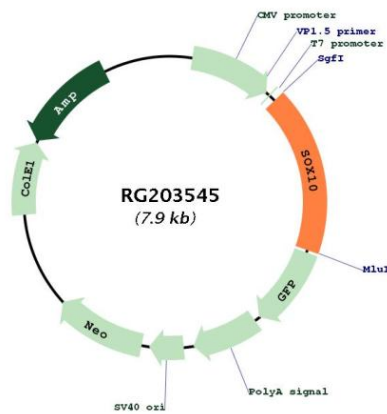
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_006941.2](#)

RefSeq Size: 2882 bp
RefSeq ORF: 1401 bp
Locus ID: 6663
UniProt ID: [P56693](#)
Cytogenetics: 22q13.1
Protein Families: Adult stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, 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 acts as a nucleocytoplasmic shuttle protein and is important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203545