

## Product datasheet for **RG227953**

### SOX6 (NM\_001145811) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOX6 (NM_001145811) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOX6
Synonyms:	HSSOX6; SOXD; TOLCAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227953 representing NM\_001145811  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTTCCAAGCAAGCCACCTCTCCATTTGCCTGTGCAGCTGATGGAGAGGATGCAATGACCCAGGATT  
 TAACCTCAAGGGAAAAGGAAGAGGGCAGTGATCAACATGTGGCCTCCCATCTGCCTCTGCACCCATAAT  
 GCACAACAAACCTCACTCTGAGGAGCTACCAACACTTGTCACTACCATTCAACAAGATGCTGACTGGGAC  
 AGCGTTTCTGCATCTCAGCAAAGAATGGAATCAGAGAATAATAAGTTATGTTCCCTATATTCCTTCCGAA  
 ATACCTTACCTCACCACATAAGCCTGACGAAGGGAGTCGGGACCGTGAGATAATGACCAGTGTTACTTT  
 TGGAAACCCAGAGCGCCGAAAGGGAGTCTTGCCTGATGTGGTGGACACTGAAACAGAAGAAGCTTGAG  
 GAAATGACTCGGACTGAACAAGAGGATTCCTCCTGCATGGAAAACTACTTTCAAAGATTGGAAGGAAA  
 AAATGGAAAGACTAAATACCAGTGAACCTCTTGGAGAAAATAAAGGTACACCTGAGAGCCTGGCAGAAAA  
 AGAACGGCAGCTCTCCACATGATTACCCAGCTGATCAGTTTACGGGAGCAGCTACTGGCAGCGCATGAT  
 GAACAGAAAAAATGGCAGCGTCACAAATTGAGAAACAACGGCAGCAAAATGGACCTTGCTCGCCAACAGC  
 AAGAACAGATTGCGAGACAACAGCAGCAACTTCTGCAACAGCAGCACAAAATTAATCTCCTGCGCAACA  
 GATCCAGGTTTACGGGTCACATGCCTCCGCTCATGATCCCAATTTTTCCACATGACCAGCGGACTCTGGCA  
 GCAGCTGCTGCTGCCAACAGGGATTCTCTTCCCCCTGGAAATAACATACAAACCAGGTGATAACTACC  
 CCGTACAGTTTATTCCATCAACAATGGCAGCTGCTGCTGCTTCTGGACTCAGCCCTTACAGCTCCAGCA  
 GCTCTATGCCGCTCAGCTGGCCAGCATGCAAGGTGTACCTGGAGCAAAGATGCCATCAACTCCACAGCCA  
 CCAAACACAGCAGGGACGGTCTCACCTACTGGGATAAAAAATGAAAAGAGAGGGACCAGCCCTGTAACCT  
 AAGTTAAGGATGAAGCAGCAGCACAGCCTCTGAATCTCTCATCCCGACCCAAGACAGCAGAGCCTGTA  
 GTCCCCAACGCTCTCCACCCAGAACCTCTTCCAGCCAGCAAAACAGCCCTGTCAATCTGCCAAACAAA  
 AGCAGCATCCCTAGCCCCATTGGAGGAAGCCTGGGAAGAGGATCCTCTTTAGGTAATGGAAAAGTCAAC  
 ACCAGGAAGAGACTTACGAATTAGATATCCTATCTAGTCTCAACTCCCCTGCCCTTTTTGGGGATCAGGA  
 TACAGTGATGAAAGCCATTACAGGAGCGCGGAAGATGCGAGAGCAGATCCAGCGGAGCAACAGCAGCAA  
 CAGCCACATGGTGTGACGGGAACTGTCTCCATAAATAATATGGGGCTGAACAGCTGCAGGAATGAAA  
 AGGAAAGAACGCGCTTTGAGAATTTGGGGCCCCAGTTAACGGGAAAGTCAATGAAGATGGAAAAGTGGG  
 CCCAGGTGTCATCGACCTTACTCGCCAGAAGATGCAGAGGGAAGTAAAGCAATGAATGGCTCTGCAGCT  
 AAATACAGCAGTATTATTGTTGGCCAACAGGAGGTGCCACTGTGGCTGAAGCACGAGTCTACAGGGACG  
 CCCGCGGCCGTGCCAGCAGCGAGCCACACATTAAGCGACCAATGAATGCATTATGGTTTGGGCAAAGGA  
 TGAGAGGAGAAAAATCCTTCAGGCCTTCCCCGACATGCATAACTCCAACATTAGCAAAATCTTAGGATCT  
 CGCTGGAATCAATGTCCAACAGGAGAAGCAACCTTATTATGAAGAGCAGGCCCGGCTAAGCAAGATCC  
 ACTTAGAGAAGTACCCAACTATAAATAACAAACCCGACCGAAACGCACCTGCATTGTTGATGGCAAAAA  
 GCTTCGGATTGGGGAGTATAAGCAACTGATGAGGTCTCGGAGACAGGAGATGAGGCGATTCTTTACTGTG  
 GGGCAACAGCCTCAGATTCCAATCACACAGGAACAGGTGTTGTGTATCCTGGTGTATCACTATGGCAA  
 CTACCACACCATCGCCTCAGATGACATCTGACTGCTCTAGCACCTCGCCAGCCCGAGCCAGCCCTCCC  
 GGTCATCCAGAGCACTTATGGTATGAAGACAGATGGCGGAAGCCTAGCTGGAAATGAAATGATCAATGGA  
 GAGGATGAAATGGAAATGTATGATGACTATGAAGATGACCCCAATCAGACTATAGCAGTGAAAAATGAAG  
 CCCCAGGCTGTCAAGTCCAAAC

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG227953 representing NM\_001145811  
Red=Cloning site Green=Tags(s)

MSSKQATSPFACAADGEDAMTQDLTSREKEEGSDQHVASHLPLHPIMHNKPHSEELPTLVSTIQDADWD  
SVLSSQQRMESENKLCSLYSFRNTSTSPHKPDEGSRDREIMTSVTFGTPERRKGLADVVDTLKQKKLE  
EMTRTEQEDSSCKEKLKSKDWKEKMERLNTSELLGEIKGTPESLAEKERQLSTMITQLISLREQLLAHD  
EQKKLAASQIEKQRQQMDLARQQEQIARQQQQLLQQQHKINLLQQQIQVQGHMPPLMIPIFPHDQRTLA  
AAAAAQGGFLFPPGITYKPGDNYPVQFIPSTMAAAAASGLSPLQLQQLYAAQLASMQVSPGAKMPSTPQP  
PNTAGTVSPTGIKNEKRGTSPVTQVKDEAAAQPLNLSRPKTAEPVKSPTSPQNLFPASKTSPVNLPNK  
SSIPSPIGGSLGRGSSLGKWKSQHQEETVELDILSSLNSPALFGDQDTVMKAIQEARKMREIQREQQQQ  
QPHGVDGKLSINNMGLNSCRNEKERTFENLGPQLTGKSNEDGKLGPGVIDLTRPEDAEGSKAMNGSAA  
KLQQYYCWPTGGATVAEARVYRDARGRASSEPHIKRPMNAFMVWAKDERRKILQAFPMHNSNISKILGS  
RWKSMSNQEKQPYEEQARLSKIHLEKYPNYKYKPRPKRTCIVDGKCLRIGEYQLMRSRRQEMRQFFTV  
GQQPQIPITTTGTGVVYPGAIMATTTTSPQMTSDCSSTSASPEPSLPVIQSTYGMKTDGGSLAGNEMING  
EDEMEMYDDYEDDPKSDYSSENEAPEAVSAN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**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\\_001145811.2](#)

**RefSeq Size:** 8957 bp

**RefSeq ORF:** 2406 bp

**Locus ID:** 55553

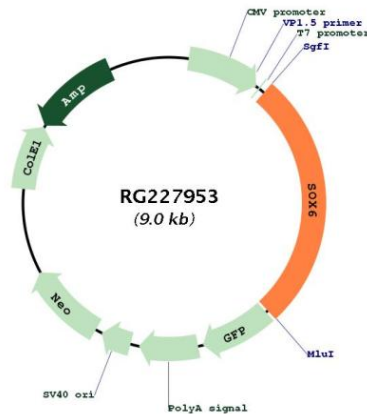
**UniProt ID:** [P35712](#)

**Cytogenetics:** 11p15.2

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a member of the D subfamily of sex determining region y-related transcription factors that are characterized by a conserved DNA-binding domain termed the high mobility group box and by their ability to bind the minor groove of DNA. The encoded protein is a transcriptional activator that is required for normal development of the central nervous system, chondrogenesis and maintenance of cardiac and skeletal muscle cells. The encoded protein interacts with other family members to cooperatively activate gene expression. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RG227953