

## Product datasheet for **RG214980**

### **TOX2 (NM\_001098797) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TOX2 (NM_001098797) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TOX2
Synonyms:	C20orf100; dj495O3.1; dj1108D11.2; GCX-1; GCX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214980 representing NM\_001098797  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGTCCGCCTGTACCCCTCGGCGCCCGCGTGGGCGCGCGCCCGGGCCGAGCCGGCCGGCCTGG  
 CGCACCTGGACTATTACCACGGCGCAAGTTGATGGTGACAGTGCCACGTGGGATGAGTGACGGAAA  
 CCCAGAGCTCCTGTCAACCAGCCAGACCTACAACGGCCAGAGCGAGAACAACGAAGACTATGAGATCCCC  
 CCGATAACACCTCCCAACCTCCCGGAGCCATCCCTCCTGCACCTGGGGGACCACGAAGCCAGCTACCACT  
 CGCTGTGCCACGGCCTCACCCCAACGGTCTGCTCCCTGCCTACTCCTATCAGGCCATGGACCTCCAGC  
 CATCATGGTGTCCAACATGCTAGCACAGGACAGCCACCTGCTGTCGGGCCAGTGCCACGATCCAGGAG  
 ATGGTCCACTCGGAAGTGGCTGCCTATGACTCGGGCCGGCCGGGCCCTGCTGGTTCGCCCGCAATGC  
 TGGCCAGCCACATGAGTGCCCTCAGCCAGTCCCAGCTCATCTCGCAGATGGGCATCCGGAGCAGCATCGC  
 CCACAGCTCCCCATACCGCCGGGAGCAAGTCAGCGACCCCTCTCCCTCCAGTCCACTCAGGAAGAG  
 GAGTCGGAAGTGCAATTTCAAGATCTCGGAGAAAAGAGACCTTCAGCCGACCCAGGAAAAAGGCCAAGA  
 ACCCGAAGAAGAAGAAAAGAAGGACCCCAATGAGCCGAGAAGCCTGTGTGGCCTACGCACTTCTCTT  
 CAGAGACTCAGGCCGCATCAAGGTGAGAACCCAGTGCCACTTTCGGTGACGTGTCCAAAATCGTG  
 GCCTCCATGTGGGACAGCCTGGGAGAGGAACAGAAGCAGGCCACAAAGAGGAAGACAGAAGCAGCAAGA  
 AGGAATATCTGAAGGCCCTGGCAGCCTACCGGGTAGCCTCGTCTCAAGAGTCCCCAGATCAAGGTGA  
 GACCAAGAGCACTCAGGCAAACCCAGCCAAATGCTCCACCAAGCAGCCATGTATGCCATGCCA  
 GGCTGGCCTCCTTCTGACGCCGTGGACCTGCAGGCCCTCCGCAGTGGGGCTCCCCTGCCAGCCTCG  
 CCCGGACGTGGGCTCCAAGTCTCTGCTGCCAGGCCTAGTGGTCCCCGGCCGCCACCTCTCTCC  
 GCTCAGCCCCACACTGCACCAGCAGTGTCACTGCCCCCTCACGCCAGGGCGCCCTCCTCAGTCCACT  
 GTTAGCATGTCCCAGCCCCCAGCCCCCTGCTGCCCCACCCCATGGCACTCCAGGTGCACTGGCGA  
 TGAGCCCCTCACCTCCAGGGCCACAGGACTTCCCGCACATCTCTGAGTCCCCAGCAGCTCGGGATCCTG  
 CTCACCTGGCCATCCAACCCACAGCAGCGGGGACTGGGACAGCAGCTACCCAGTGGGGAGTGTGGC  
 ATCAGCACCTGCAGCCTGCTCCCAGGGACAAATCGCTTACCTCACC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG214980 representing NM\_001098797  
 Red=Cloning site Green=Tags(s)

MDVRLYPSAPAVGARPGAEPAGLAHLDYHGGKFDGDSAYVGMSDGNPELLSTSQTYNQSENEDYEIP  
 PITPPNLPEPSLLHLGDHEASYHSLCHGLTPNGLLPAYSQAMDLPALMVSNMLAQDSHLLSGQLPTIQE  
 MVHSEVAAYDSGRPGPLLRPAMLASHMSALSQSLISQMGIRSSIAHSSPSPGSKSATPSPSSSTQEE  
 ESEVHFKISGEKRPSADPGKKAKNPKKKKKDPNEPQKPVSAALFFRDTQAAIKGNPSATFGDVSKIV  
 ASMWDSLGEQKQAYKRKTEAAKKEYLKALAAAYRASLVSKSSPDQGETKSTQANPPAKMLPPKQPMYAMP  
 GLASFLTPSDLQAFRSGASPAASLARTLGSKSLPLGLSASPPPPPSFPLSPTLHQQLSLPPHAQGALLSPP  
 VSMSPAPQPPVLPMPALQVQLAMSPSPPGPQDFPHISEFPSSSGSCSPGPSNPTSSGDWSSYPSGECG  
 ISTCSLLPRDKSLYLT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001098797

**ORF Size:** 1518 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\\_001098797.2](#)

**RefSeq Size:** 2505 bp

**RefSeq ORF:** 1521 bp

**Locus ID:** 84969

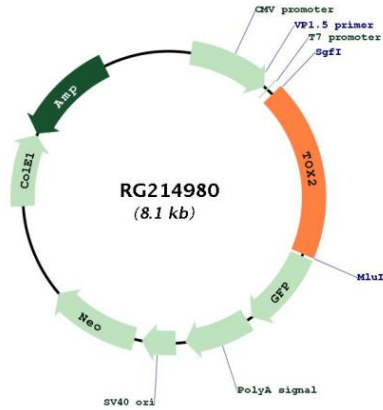
**UniProt ID:** [Q96NM4](#)

**Cytogenetics:** 20q13.12

**Protein Families:** Transcription Factors

**Gene Summary:** Putative transcriptional activator involved in the hypothalamo-pituitary-gonadal system. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG214980