

Product datasheet for **SC316536**

TOX2 (NM_001098798) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOX2 (NM_001098798) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOX2
Synonyms:	C20orf100; dj495O3.1; dj1108D11.2; GCX-1; GCX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC316536 representing NM_001098798.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGCAGACTCGACAGAGGCTGTCGGGGCGGCTTCTCGTGCCTGGGCTTCTGTGGAATGAGA
CTCGGGTCTCTTCTACTTGCAAGACACTGGTGCATTGCAGGTGTGTTTCCGCAGAAGTTGATGGTGAC
AGTGCCTACGTGGGGATGAGTGACGGAACCCAGAGCTCCTGTCAACCAGCCAGACCTACAACGGCCAG
AGCGAGAACAACGAAGACTATGAGATCCCCCGATAAACACCTCCCAACCTCCCGGAGCCATCCCTCTG
CACCTGGGGGACCACGAAGCCAGCTACCACTCGTGTGCCACGGCCTCACCCCAACGGTGTGCTCCCT
GCCTACTCCTATCAGGCCATGGACCTCCAGCCATCATGGTGTCCAACATGCTAGCACAGGACAGCCAC
CTGCTGTGCGGGCAGCTGCCACGATCCAGGAGATGGTCCACTCGGAAGTGGCTGCCTATGACTCGGGC
CGGCCCGGCCCTGCTGGTTCGCCCGCAATGCTGGCCAGCCACATGAGTGCCCTCAGCCAGTCCCAG
CTCATCTCGCAGATGGGCATCCGGAGCAGCATCGCCACAGCTCCCCATCACCGCCGGGAGCAAGTCA
GCGACCCCTCTCCCTCCAGCTCCACTCAGGAAGAGGAGTCGGAAGTGCATTTCAAGATCTCGGGAGAA
AAGAGACCTTCAGCCAGCCAGGAAAAAGGCCAAGAACCAGGAAGAAGAAAAAGAGACCCCAAT
GAGCCGAGAAGCCTGTGTGGCCTACGCACTTCTTTCAGAGACTCAGGCCGCCATCAAGGGTCAG
AACCCAGTGCCACTTTCGGTGACGTGTCCAAAATCGTGGCCTCCATGTGGGACAGCCTGGGAGAGGAA
CAGAAGCAGAGCTCCCGAGATCAAGGTGAGACCAAGAGCACTCAGGCAAACCCACAGCCAAAATGCTC
CCACCCAAAGCAGCCATGTATGCCATGCCAGGCCCTGGCTCCTTCTGACGCCGTGCGACCTGCAGGCC
TTCCGCAGTGGGGCTCCCTGCCAGCTCGCCGGAGCCTGGGCTCCAAGTCTCTGTGCCAGGCCCTC
AGTGGTCCCCGCCGCCACCCTCCTTCCCGCTCAGCCACACTGCACCAGCAGCTGCTACTGCCCC
CCTCAGCCCAAGGGCGCCCTCCTCAGTCCACCTGTTAGCATGTCCCAGCCCCCAGCCCTGCTCCTG
CCACCCCATGGCACTCCAGGTGCAGCTGGCGATGAGCCCTCACCTCAGGGCCACAGGACTTCCCG
CACATCTCTGAGTTCACAGCAGCTCGGGATCCTGCTCACCTGGCCCATCCAACCCACAGCAGCGGG
GACTGGGACAGCAGCTACCCAGTGGGAGTGTGGCATCAGCACCTGCAGCCTGCTCCCCAGGGACAAA
TCGCTTACCTCACCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001098798

Insert Size: 1467 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001098798.1](#)

RefSeq Size: 2428 bp

RefSeq ORF: 1467 bp

Locus ID: 84969

UniProt ID: [Q96NM4](#)

Cytogenetics: 20q13.12

Protein Families: Transcription Factors

MW: 51.6 kDa

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

Transcript Variant: This variant (2) contains an alternate exon at its 5' end and lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. These differences produce a unique 5' UTR and cause translation initiation at an alternate start codon, compared to variant 1. The encoded protein (isoform b) is shorter and has a distinct N-terminus, compared to isoform a.