

Product datasheet for **RR201093**

Tox2 (NM_199392) Rat Tagged ORF Clone

Product data:

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|--------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Tox2 (NM_199392) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Tox2 |
| Synonyms: | GCX-1; Gcx1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR201093 representing NM_199392
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGTCGCCCTGTATCCCTCGGCGCCCGGGTAGGTGCGCGCCCGGGCCGAGCCGGCCGGCCTGG
 CGCACCTGGACTACTACCACTGCGGCAAGTTGATGGTGACAGTGCCCTAGTGGGATGAGTGACGGAAA
 TCCAGAGCTCCTGTCAACCAGCCAGACCTATAACAGCCAGGGCGAGAGCAACGAAGACTATGAGATCCCT
 CCTATAACACCTCCCAATCTCCCTGAGCCATCCCTCTGCACCTGGGGGACCACGAAGCCGGTTACCACT
 CACTGTGTACGGCCTTGCGCCAACGGTCTGCTCCCGCCTACTCGTACCAGGCAATGGATCTCCCGGC
 CATCATGGTGTCCAACATGCTGGCCAGGATGGCCACCTGCTGTCAGGACAGTGCCACGATCCAGGAA
 ATGGTCCACTCGGAGGTAGCTGCCTATGACTCAGGCCGGCCAGGGCCCTGCTGGGCCGCCCTGCGATGC
 TGGCCAGCCACATGAGTGCCCTCAGTCAATCCCAGCTCATCTCCAGATGGGCTCCGGAGTGGCATTGC
 CCACAGCTCCCCATACCCCGAGGAGCAAGTCAGCAACCCCGTCTCCATCCAGTCCACCCAGGAGGAG
 GAGTCAGATGCCCATTTCAAGATTTCAAGAGAGAAGAGACCCCTCAACAGACCCAGGCAAAAAGGCCAAAA
 ATCCAAAGAAGAAGAAGAAGGATCCCAATGAGCCACAGAAGCCAGTGTGCGCCTACGCTCTCTTCTT
 CAGAGACTCAGGCTGCCATCAAGGGCAGAACCCAGTGCCACCTTTGGGGATGTTTCCAAAATTGTG
 GCCTCCATGTGGGACAGCCTGGGAGAAGAGCAGAAACAGGCGTATAAGAGGAAGACCGAAGCTGCCAAGA
 AGGAGTACCTGAAAGCCTTGGCGCCTACAGAGCTAGCCTCGTGTCCAAGAGCCCCCGGACCAAGGCGA
 GGCCAAGAAGCCTCAGGCAAACCCAGCCAAAATGCTTCCACCAAGCAGCCCATGTACGCCATGCC
 GGCTGGCTTCTTCTGACGCCCTCCGACCTGCAGGCTTCCGACGCGCAGCCTCTCCTGCCAGCCTCG
 CAGAACGCTGGGCTCCAAGGCCCTGCTGCCAGGCTCAGCACCTCCCCACCACCCTCTCTCTCTCTCT
 CAGCCCCCTCTTGACCCAGCAGCTGCCACTGCCACCCACGCGCAGGGTACCCTCCTCAGCCCGCCTCTC
 AGCATGTCCCCAGCCCCGACGCTCCTGTCTGCTGCCCCATGGCACTCCAGGTGCAGCTGGCGATGA
 GCCCTCGCTCCAGGGCCACAGGACTTCCACACATCTCTGACTTCCCCAGTGGCTCTGGCTCCCGCTC
 ACCTGGCCCATCCAACCTTCCAGCAGCGGGGACTGGGATGGGAGTTACCCAGTGGGGAGCGCGGCCCTC
 GGCACCTGCAGACTCTGCAGAAGCAGCCACCGCCACCACCAGCCAAAGAACCTGCAGGAACCTCTG
 CCGC

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201093 representing NM_199392
 Red=Cloning site Green=Tags(s)

MDVRLYPSAPAVGARPGAEPAGLAHLDYHCGKFDGDSAYVGMSDGNPELLSTSQTYNISQGESNEDYEIP
 PITPPNLPEPSLLHLGDHEAGYHSLCHGLAPNGLLPAYSQAMDLPALIMVSNMLAQDGHLLSGQLPTIQE
 MVHSEVAAAYDSGRPGPLLGRPAMLASHMSALSQQLISQMLRSGIAHSSPSPGSKSATPSPSSSTQEE
 ESDAHFKISGEKRPSTDPGKKAKNPKKKKKDPNEPQKPVSAALFFRDTQAAIKGQNPSTFQDVSKIV
 ASMWDSLGEQKQAYKRKTEAAKKEYLKALAAAYRASLVSKSPDQGEAKNAQANPPAKMLPPKQPMYAMP
 GLASFLTPSDLQAFRSAASPAALARTLGSKALLPGLSTSPPPSFPLSPSLHQQLPLPPHAQGTLLSPPL
 SMSAPQPPVLPAPMALQVQLAMSPSPGPQDFPHISDFPSGSGSRSPGSPNPSSSGDWDGYSYPSGERGL
 GTCRLCRSPPPTTSPKNLQEPSAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

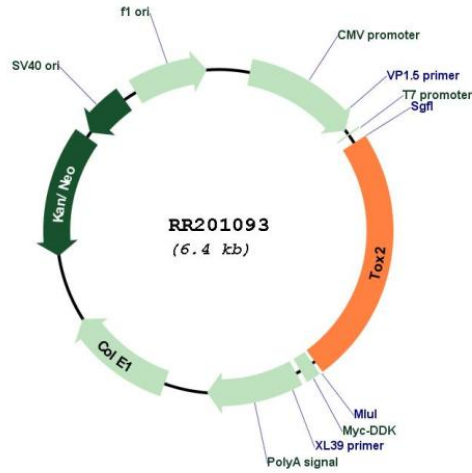
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_199392 |
| ORF Size: | 1545 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: | <ol style="list-style-type: none">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_199392.2 , NP_955424.2 |
| RefSeq Size: | 2022 bp |
| RefSeq ORF: | 1548 bp |
| Locus ID: | 311615 |
| UniProt ID: | Q76IQ7 |
| Cytogenetics: | 3q42 |
| MW: | 54.3 kDa |
| Gene Summary: | acts as a transcriptional activator; may regulate follicular development and other processes related to female reproduction [RGD, Feb 2006] |