

Product datasheet for MR201355

Txn2 (NM_019913) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Txn2 (NM_019913) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Txn2
Synonyms: 2510006J11Rik; A1788873; Trx2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201355 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCAGCGGCTCCTCCTGGGGAGGTTCTGACCTCAGTCATCTCCAGGAAGCCTCCTCAGGGTGTGT
GGGCTTCCCTCACCTCTAAGACCCTGCAGACCCCTCAGTACAATGCTGGTGGTCTAACAGTAATGCCAG
CCCAGCCCGGACAGTACACACCACCAGAGTCTGTTTGACGACCTTAAACGTCCAGGATGGACCTGACTTT
CAAGACAGAGTTGTCAACAGTGAGACACCAGTTGTTGTGGACTTTCATGCACAGTGGTGTGGCCCTGCA
AGATCCTAGGACCGCGCTAGAGAAGATGGTCGCAAGCAGCACGGAAGGTGGTCATGGCCAAAGTGGA
CATTGACGATCACACAGACCTTGCCATTGAATATGAGGTGTGAGCTGTGCCTACCGTGTAGCCATCAAG
AACGGGGACGTGGTGGACAAGTTTGTGGGGATCAAGGACGAGGACCAGCTAGAAGCCTTCTGAAGAAGC
TGATTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201355 protein sequence
 Red=Cloning site Green=Tags(s)

MAQRLLLGRFLTSVISRKPQGVWASLTSKTLQTPQYNAGGLTVMPSPARTVHTTRVCLTTFNVQDGPDP
QDRVNVSETPVVVDFHAQWCGPCKILGPRLEKMKVAKQHKGVMMAKVDIDDHTDLAIEYEVSAPPTVLAIK
NGDVVDKDFVGIKDEDQLEAFLKLLIG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM_019913

ORF Size: 501 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.

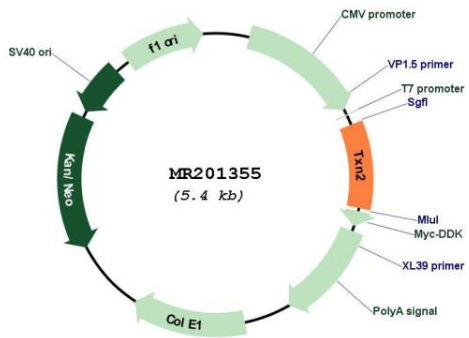
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_019913.5](#)

RefSeq Size:	1282 bp
RefSeq ORF:	501 bp
Locus ID:	56551
UniProt ID:	P97493
Cytogenetics:	15 E1
MW:	18.3 kDa
Gene Summary:	Important for the control of mitochondrial reactive oxygen species homeostasis, apoptosis regulation and cell viability. Possesses a dithiol-reducing activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR201355