

Product datasheet for **RR202255**

Tc2n (NM_001025152) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tc2n (NM_001025152) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tc2n
Synonyms:	Mtac2d1; Tac2-N
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202255 representing NM_001025152
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGCAGAATTTATAAAGAGTTGTTGTAGAGGATGTTTCTATGGTGAACCGAAAAGCACAAAGTTTT
 CTGTGGAAAAAGAGTTTAAAGCATCAGCCTCAAATAGCCAAAACACCATCGGTATAACTCAATTGACTTC
 TGTTTTAGCAAAGCCCCAAGTTGGCTGTAATGAGGATTACTTGCTTTCCAAATTACCATGTGATGGTAAA
 GAAGTACAATTTGTGGTGCCAGGTTTAAATTATCTTATATTCAGCCTAGGACACAAGGAACCTCTTAC
 ATCTGGATGAACTGGAAGGATCTGCCAGAGCATCTTTGGAGATCAAAGACAGAAGCTTTGTAGTTCATT
 CTACCATGGATCCATCTATGATGTGTAATCCATGCTATATGTATCAACACTTTTCACCTGATTTAAGT
 AGGCGCTTCTCCTCATTGTGAAACGAAAACGTTATATGGATCTGTTTGTGATTAAGGACCAGTAAAC
 TTCTGGTTCCTGGGTAAGCAAATCTATGCTAGATCTTACAACCTCATCTCAGCGATTATCCAGAG
 ACATGACTCATTTCCAGTGTGCCTAGTAGTTCTTCTCAAGAAAAAATCTCAGGCGAGTAACAGAAGC
 CTGGATACAATTACCCTGTCAGGAGATGAACGAGACTTGGGGAGATTGAATGTGAAATTGTTTTATAATT
 CTTGAGCAGAGCAGATTTGGATCACAATTTGTCAGTGCAGAGATAAAGTTGGCCCTCTAGTTATGGAGA
 TACTCTACAATTTCTATAAAAGGAATTTAATCATTATCCAAACCAATACATTTCAAATCTTCAGCCAAA
 GAAGGTTCCAATGCTATTGACTTTATGGAACGTTTGTATTTGCTATCAAACACAAAATCTACAAGCTG
 TGAGACTTGCATTTAAGATTCAAACCAAACTCCCAAGAAGAAAACCATTTGGAGAATGTTCTCTTTCACT
 CAGAAGCTTAGTACCCAGGAAATGGATTACTCATTGGAATAATACCACCTTCAAATTTTCTGTTTGC
 CAAGCAGAAGCTGAACTGGGACTTGTTCAGCAGTAATAGCAGGATTCAGCTGCAATCCTCGAGG
 CACAATACCTTCAAGTTCATCAACACCTCTGGCTTTGAGTTTTTTGTGAAGGTAGGATGTTTGTAGCTC
 AGGAGAGCTGATTTATAAGAAGAAGACACGCTTACTGAAGGCCTCCAGTGAAGAGTAAAAATGGGAGAA
 ACTATGATTTTTCCACTCATAACAGACTGAAAAAGAAATTGTTTCTTATTAAACTTTACAGTCGGAGCT
 CTGTAAGAAGAAAACATTTGTAGGCCAGCTCTGGATAAGTGAAGACAGTAATAACGTTGAAGCAGTGAA
 CCAATGGAAGAGACAGTTACAAATCCAGAAAAGGTTGTTATCAAGTGGCACAAGTTAAATCCATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202255 representing NM_001025152
 Red=Cloning site Green=Tags(s)

MAAEFIKSCRCGFYGETEKHKFSVEKEFKASASNSQNTIGITQLTSVLAKPQVGCNEDYLLSKLPCDGK
 EVQFVVPFRKLSYIQPRTQGTSPHLELEGSARASFGDQKTELCSSFYHGSYIDVYNPCYMYQHFSPDLS
 RRFLPHCETKTLYGSVCDLRTSKLPGSPGLSKSMLDLTTSSQRFIQRHDSFSSVPSSSSSRKNSQGSNRS
 LDTITLSGDERDLGRLNVKLFYNSSAEQIWIITILQCRDISWPSSYGDPTTISIKGILTLKPIHFKSSAK
 EGSNAIDFMETFVFAIKLQNLQAVRLAFKIQTPKKTIGECSLRRTLSTQEMDYSLEIIPPSKFSVC
 QAELELGTQFQAVNSRIQLQILEAQYLPSSSTPLALSFVVKVGMFSSGELIYKKKTRLLKASSGRVKWGE
 TMIFPLIQTEKEIVFLIKLYSRSSVRRKHFVGLWISEDSSNVEAVNQWKETVTNPEKVVIKWHKLNPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

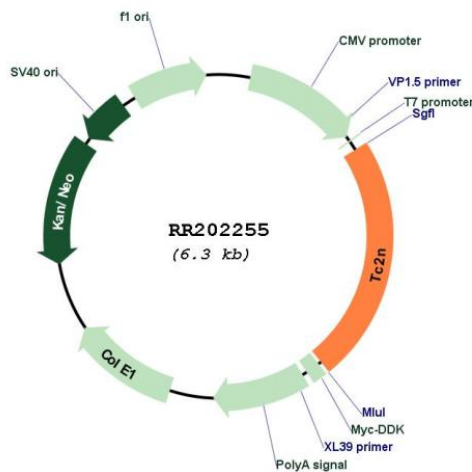
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025152

ORF Size: 1467 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_001025152.1](#), [NP_001020323.1](#)

RefSeq Size: 2545 bp

RefSeq ORF: 1470 bp

Locus ID: 500707

Cytogenetics: 6q32

MW: 55.1 kDa