

Product datasheet for **RR204940**

Tf (NM_001013110) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tf (NM_001013110) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tf
Synonyms:	Tfn; Trf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR204940 representing NM_001013110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGTTGCTGTGGGTGCCCTGCTGGCTTGTGCCGCCCTGGGACTGTGTCTGGCTGTCCCTGACAAAA
 CGGTCAAATGGTGCAGTGTCTGAGCATGAGAACACCAAGTGTATCAGTTTCCGTGACCACATGAAAAAC
 CGTCTTCCAGCTGATGGCCCCGGCTTGCCTGTGTGAAGAAAACCTCCTATCAAGATTGCATCAAGGCC
 ATTTCTGGAGGTGAAGCTGATGCCATTACCTTGGATGGGGTTGGGTGTACGATGCAGGCCCTGACTCCCA
 ACAACCTGAAGCCTGTGGCAGCAGAGTTTTATGGATCACTTGAACATCCACAGACCCACTACTTGGCTGT
 GGCCGTGGTGAAGAAGGGAACAGACTTCCAGCTGAACCAGCTCCAGGGCAAGAAGTCTGCCACACTGGC
 CTGGGCAGGTCTGCAGGCTGGATTATCCCCATTGGCTTACTTTTCTGTAAGTCCAGAGCCCCGCAAGC
 CTCTTGAGAAAGCTGTGGCCAGTTTCTTCTCGGCAGTTGTGCCCTGTGCAGATCCAGTGGCCTTCCC
 CCAGCTGTGTCAACTGTGTCCAGGCTGTGGCTGTCCCGACTCAACCGTTCTTTGGCTAGTAGGGGCC
 TTCAAGTGTCTGAGAGATGGAGGTGGAGATGTGGCCTTTGTCAAGCATACAACCATATTTGAGGTCTTGC
 CACAGAAGGCTGACAGGGATCAATATGAGCTGCTCTGCCTTGACAATACCCGCAAGCCAGTGGATCAGTA
 TGAGGACTGCTACCTAGCCCCGATCCCTTCTCATGCTGTTGTGGCTCGAAATGGAGATGGCAAAGAGGAC
 TTGATCTGGGAGATCCTCAAAGTGGCTCAGGAACACTTTGGCAAAGGCAAATCAAAGACTTCCAAGTGT
 TCGGCTCTCTTGGGAAAGACCTGCTGTTTAAGGATTCTGCCTTTGGGCTGTTACGGGTGCCCCCAAG
 GATGGACTACAGGCTGTACCTCGCCACAGCTATGTCAGTCCATTGAAATCAGCGGGAAGGCGTGTGC
 CCGGAGGGCTCCATCGACAGCGCCAGTGAAATGGTGTGCACTGAGTCACCAAGAGAGACCAAGTGTG
 ATGAGTGGAGCGTCAGCAGCAATGGGCAGATAGAGTGTGAGTCAGCAGAGAGCACTGAGGACTGCATTGA
 CAAGATTGTAATGGAGAAGCAGATGCCATGAGCTTGGATGGAGGTCATGCCTACATAGCAGGCCAGTGT
 GGACTAGTGCCCGTCATGGCAGAGAATGATATCTCTTCGTGTACAAACCCACAATCAGATGTCTTTC
 CTAAGGGTATTATGCCGTGGCTGTGGTGAAGGCATCAGACTCCAGCATCAACTGGAACAACCTGAAAGG
 CAAGAAGTCTGCCATACTGGAGTAGACAGAACC GCCGGCTGGAACATCCCTATGGGCCTGCTGTTACAG
 AGGATCAACCACTGCAAGTTCGATGAATTTTTCAGTCAAGGCTGTGCTCCTGGCTATAAGAAGAATTCCA
 CCCTCTGTGACCTGTGATTGGCCAGCAAAATGTGCTCCGAACAACAGAGAGGGATATAATGGTTATAC
 AGGGGCTTTCCAGTGCCTCGTTGAGAAGGGAGACGTAGCCTTTGTGAAGCACCAGACTGCTCTGGAAAAC
 ACGAACGGAAGAAGCACTGCTGCATGGGCTAAGGATCTGAAGCAGGAAGACTTCCAGCTGTGTGCCCTG
 ATGGTACCAAGAAGCCTGTAAACCGAGTTCGCCACCTGCCACCTGGCCCAAGCTCCAACCATGTTGTGGT
 CTCACGAAAAGAGAAGGCAGCCCGGTTAGCACTGTGCTGACTGCCAGAAAGGATTTATTTTGGAAAGGT
 GACAAGGACTGCACTGGCAATTTCTGTTTGTCCGGTCTTCCACCAAGGACCTTCTGTTCCAGAGATGACA
 CCAAGTGTGACTAACTTCCAGAAGGTACCACATATGAAGAGTACTTAGGAGCAGAGTACTTGCAAGC
 TGTTGGAAACATAAGGAAGTGTCAACCTCAGCACTCCTAGAAGCCTGCCTTTCCACAAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204940 representing NM_001013110
Red=Cloning site Green=Tags(s)

MRFVAVGALLACAALGLCLAVPDKTVKWCVSEHENTKCSIFRDHMKTVLPADGPRACVKKTSYQDCIKA
 ISGGEADAITLDGGWVYDAGLTPNNLKPVAEEFYGSLEHPQTHYLAVAVVKKGTDFQLNQLQGKKSCHTG
 LGRSAGWIPIIGLLFCNLPEPRKPLEKAVASFFSGSCVPCADPVAFPQLCQLCPGCGCSPTQPFYGYVGA
 FKCLRDGGDVAFVKHTTIFEVLPOKADRQYELLCLDNTRKPVQYEDCYLARIPSHAVVARNGDGKED
 LIWEILKVAQEHFGKSKDFQLFGSPLGKDLLFKDSAFGLLRVPPRMDYRLYLGHYSYVTAIRNQRGVC
 PEGSIDSAPVKWCALSHQERAKCDEWSVSSNGQIECESAESTEDCIDKI VNGEADAMSLDGGHAYIAGQC
 GLVPVMAENYDISSCTNPQSDVFPKGYAVAVVKASDSSINWNNLKGKKSCHTGVDRTAGWNIIPMGLLFS
 RINHCKFDEFFSQGCAPGYKKNSTLCDLCIGPAKCAPNNREGYNGYTGAFCQLVEKGDVAFVKHQTVLEN
 TNGKNTAAWAKDLKQEDFQLLCPDGTKKPVTEFATCHLAQAPNHVVSRKEAARVSTVLTAQKDLFWKG
 DKDCTGNFCLFRSSTKDLLFRDDTKCLTKLPEGTTYEYELGAEYLQAVGNIRKCSSTRLLEACTFHKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001013110

ORF Size: 2094 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_001013110.1](#), [NP_001013128.1](#)

RefSeq Size: 2323 bp

RefSeq ORF: 2097 bp

Locus ID: 24825

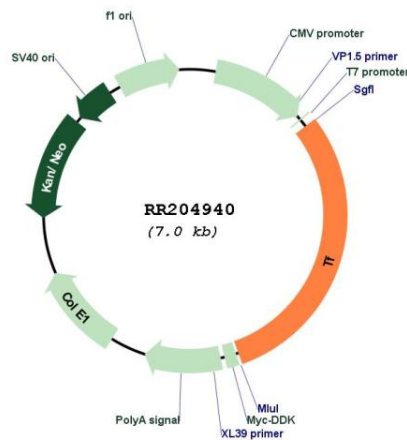
UniProt ID: [P12346](#)

Cytogenetics: 8q32

MW: 76.4 kDa

Gene Summary: plays a role in iron transport and homeostasis [RGD, Feb 2006]

Product images:



Circular map for RR204940