

Product datasheet for **MC221416**

Tfrc (NM_011638) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfrc (NM_011638) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tfrc
Synonyms:	2610028K12Rik; CD71; E430033M20Rik; Mtv; Mtvr; Mtvr1; p9; p90; TFR; TFR1; TR; Trfr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC221416 representing NM_011638
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGATCAAGCCAGATCAGCATTCTCTAATTGTTTGGTGGGAACCATTGTCATACACCCGGTTTA
 GCCTTGCTCGGCAAGTAGATGGAGATAACAGTCATGTGGAGATGAACTGGCTGCAGATGAAGAAGAAAA
 TGCCGACAATAACATGAAGGCTAGTGTCAGAAAACCAAGAGTTTAATGGAAGACTCTGCTTTCAGCT
 ATTGCACTAGTCATTTTCTTCTGATTGGATTCATGAGTGGCTACCTGGGCTATTGTAAGCGTGTAGAAC
 AAAAGAGGAGTGTGAACTGGCTGAAACGGAGGAGACAGACAAGTCAGAAACCATGGAACAGAGGA
 TGTTCTACATCATCTCGCTTATATTGGGCAGACCTCAAAACACTGTTGTCAGAGAAGTTGAACTCCATA
 GAGTTTGTGACACCATCAAGCAGCTGAGCCAGAATACATACACTCCTCGTGAGGCTGGATCTCAAAAAG
 ATGAAAGTCTTGCTATTATATTGAAAAACAGTCCATGAATTTAAATTCAGCAAAGTCTGGCGAGATGA
 AACTATGTGAAGATTCAAGTAAAAGCAGCATTGGTCAAACATGGTGACCATAGTGCAGTCAAATGGT
 AACTTAGACCCAGTGGAGTCTCCGAGGGTTATGTGGCATTTCAGTAAACCTACAGAAGTTTCTGGTAAAC
 TGGTCCATGCTAATTTTGGCACTAAAAGGACTTTGAAGAATAAGTTATTCTGTGAATGGATCTTTAGT
 GATTGTTAGAGCAGGGGAAATTAATTTTGCAGAAAAGGTTGCAAAATGCCCAAAGCTTTAATGCAATTGGT
 GTCCTCATATACATGGACAAGAATAAATCCCCGTTGTTGAGGCAGACCTTGCACTCTTTGGACATGCTC
 ATCTAGGAACTGGTGATCCATACACACCTGGCTTTCCTTCTTCAATCATACTCAGTTTCCGCCATCTCA
 GTCATCAGGGTTGCCTAATATACCTGTGCAAAACATCTCAAGAGCTGTCGAGAAAAGCTATTTGGAAAA
 ATGGAAGGAAGCTGTCTGTAGATGGAACATAGATTCTCATGTAAGCTGGAACCTTTCACAGAATCAAA
 TTATGAGGAACCCAGACCGTTATGTTGTAGTAGGAGCCAGAGAGACGCTTTGGGTGCTGGTGTTCGGCG
 AAGTCCAGTGTGGGAACAGGTTCTCTGTTGAACTTGCCCAAGTATTCTCAGATATGATTTCAAAGATG
 GATTTAGACCCAGCAGAAGTATAATCTTGGCAGCTGGACTGCAGGCGACTTTGGAGCTGTTGGTCCAC
 TGAGTGGTTGGAGGGATACCTTTCATCTTGCATTTAAAAGCTTTCACTTATATTAATTTGGATAAAGTT
 GTCCTTGGTACTAGTAACTTCAAAGTTTCTGCCAGCCCTTATTATATACACTTATGGGAAAAGATAATGC
 AAGATGTAAGCATCCAGTTGATGGAAAATCTCTATATAGAGACAGCAATTGGATTAGCAAAGTTGAGAA
 ACTTTCCTTGGCAATGCTGCATATCCTTTCCTTGCATATCTGGAATCCAGCAGTTTCTTTTGTGTTT
 TGTGAGGATGCAGACTATCCTTATTTGGCACTAGATTGGATACCTATGAGGCATTGACTCAGAAAGTTC
 CTAGCTCAACCAATGGTTTCGTACAGCAGCGGAAGTGGCTGGTCAAGTCAATTTAAACTTACCATGA
 CGTTGAATTGAACCTGGACTATGAGATGTATAACAGCAAACACTACTGTCATTTATGAAGGATCTGAACCG
 TTCAAACAGATATCAGGGATATGGGTCTAAGTCTACAGTGGCTGATTTCCGCTCGTGGAGACTACTTCC
 GTGCTACTTCTAGACTAACTGATTTTATAATGCTGAGAAAACAAACAGATTTGTCATGAGGGAAAT
 CAATGATCGTATTATGAAAGTGGAGTATCACTTCTGTCGCCCTATGTATCTCCAAGAGAGTCTCCTTTC
 CGCATATCTTGGGGCTCTGGCTCTCACACTCTCAGCTTTAGTGGAGAACTGAAGCTTCGTCAA
 AAAATATTACTGCTTTTAAATGAAACCCTTTCAGAAACCAAGTTGGCCCTGGCTACTTGGACTATTCAGGG
 AGTCGCAATGCCCTCTCTGGTGACATTTGGAATATTGACAATGAGTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/jb1116_f10.zip
Restriction Sites: SgfI-MluI
ACCN: NM_011638
Insert Size: 3 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](#)

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: [BC054522](#), [AAH54522](#)

RefSeq Size: 4920 bp

RefSeq ORF: 2292 bp

Locus ID: 22042

UniProt ID: [Q62351](#)

Cytogenetics: 16 23.06 cM

Gene Summary: This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Mice that are deficient in this receptor show impaired erythroid development and abnormal iron homeostasis. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.