

Product datasheet for **MC228956**

Tfr2 (NM_001289509) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tfr2 (NM_001289509) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tfr2
Synonyms:	Trfr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228956 representing NM_001289509
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAACGTTGGGGTCTACTTCGGAGAGTGAACAGTGGTCCCAAGACCCTCTCAGACCATCTACA
 GACGCGTGGAAGGCCCTCAGCTGGAGCACCTGGAGGAGGAAGACAGGGAGGAAGGGGCGGAGCTTCTGC
 CCAATTCTGCCCATGGAACCAAGGCCCTGAGCACTTAGGCTCCTGTCCCGGAGGTCAATCCCAT
 CCCTGGGCTGCAGCAGGTGAAAAGGCTGCCCTATCTGGTCTGATCACCTGCTAATCTTCACTGGGG
 CCTTCTCTAGGCTACGTGGCCTTTCGAGGGTCTGCCAGGCGTGTGGGGACTCCGTGTTGGTGGTCTGA
 TGAAGATGTCAACCTGAGGACTCCGGCCGACCAGTGTACTGGAGCGACCTCAGGCCATGTTTCTC
 CGTTCCTTGGGAGGGGCGCATGGAAGACACCATCAGGCTGACCAGCCTCCGGGAACCGTGGTGGCT
 CAGCCAGAATGGCCACCCTGGTCAAGATATCCTCGATAAGCTCTCGGCCAGAAGCTGGACCACGTGTG
 GACTGACACGCACTACGTGGGACTTCAGTTCAGATCCGGCTCAGCTAACACCCTGCACTGGGTGGAT
 GCAGACGGGAGGCTCCAGGAGCAGCTACCGCTGGAGGATCCGGAAGTCTACTGTCCCTACAGCGCCACCG
 GCAACGCCACGGCAAGCTGGTGTACGCCCACTACGGGCGGTCCGAGGACCTACAGGACCTAAAAGCCAA
 GGGCGTGGAGCTGGCCGGCAGCCTCCTGCTAGTGCAGTGGAAATTAAGTTCGCCCAGAAGGTAGCC
 GTTGCCAGGACTTTGGGGCTCAAGGAGTGTGATATACCCTGACCCATCAGACTTCTCCAGGATCCCC
 ACAAGCCAGGCCCTGTCTAGCCACCAGGCTGTGTACGGACATGTGCACCTGGGAAGTGGAGACCCTTACAC
 ACCTGGCTTCCCGTCTTCAATCAAACCCAGTTCCTCCAGTAGAATCATCAGGCCTTCCAGCATCCCC
 GCCCAGCCCATCAGTGTGACATTGCTGATCAATTGCTCAGGAACTCACAGGCCCGTGGTCCCCCAGG
 AGTGGAAAGGTCACCTCTCAGGCTCTCCTTATCGGCTGGGACCTGGGCCGACTTACGCTTGTGGTCAA
 CAACCACAGAGTCTCTACCCCATCAGTAACATCTTTGCGTGCAATCGAGGGCTTTGCAGAGCCAGATCAC
 TATGTTGTATTGGGGCCAGAGGGATGCATGGGGCCAGGAGCAGCCAAAGTCTGCAGTGGGGACTGCCA
 TCCTGCTGGAGCTGGTTCGGACCTTCTCTTCCATGGTCAAGCAATGGGTTCAAGCCTCGAAGAAGTCTTTT
 GTTCATCAGCTGGGACGGAGGTGACTTTGGCAGCGTGGGAGCCACAGAGTGGTTGGAGGGCTACCTCAGC
 GTGCTACACCTCAAAGCTGTTGTGTACGTGAGCCTGGACAACCTCCGTGTTGGGAGATGGCAAATTCATG
 CTAAGACCAGCCCCCTTCTCGTCAGCCTCATTGAGAATATCTTGAAGCAGGTGGACTCCCCTAACCATAG
 TGGACAGACCCTATGAACAAGTGGCACTCACCCACCCAGCTGGGATGCTGAAGTATTAGCCCTG
 CCCATGGACAGCAGTGCATATTCCTTACAGCCTTTGCGGGGTCCCAGCTGTGGAGTTCTCCTTATGG
 AGGATGATCGGGTGTACCCATTCTGCACACGAAGGAGGACACATATGAGAATCTGCACAAGATGCTGCG
 AGGTGCGCTGCCCGCCGTGGTCCAGGCAGTGGCTCAGCTCGCGGGCCAGCTCCTCATCCGACTGAGCCAC
 GATCACCTACTGCCGCTAGACTTCGGCCGCTATGGAGACGTGGTTCTCAGGCACATCGGCAACCTCAATG
 AGTTCTCTGGGACCTCAAGGAGCGCGGGCTGACCCTGCAGTGGGTGACTCTGCAAGGGGGGACTACAT
 CCGTGGCGGCGAAAAGCTGCGGAAGGAGATTTACAGCTCGGAGCGGAACGATGAGCGTCTGATGCGCATG
 TACAACGTGCGCATCATGAGGGTGGAGTTCTACTTCTGTCCAGTATGTGTGCGCAGCCGACTCCCCAT
 TCCGCCACATTTCTAGGCCAAGGCGACCACACTTTGGGTGCCCTGGTAGACCACCTGCCGATGCTGCG
 CGCCGATGGCTCAGGAGCCGCTCTTCCCGTTGACAGCAGGTCTGGCTTCCAGGAGAGTCGCTTCCGG
 CGCCAGCTGGCGCTGCTCACCTGGACACTGCAGGGGCGAGCCAAAGCTCTCAGTGGCGACGTTTGAACA
 TTGACAATAACTTT**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001289509
Insert Size: 2397 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001289509.1</u> , <u>NP_001276438.1</u>
RefSeq Size:	3597 bp
RefSeq ORF:	2397 bp
Locus ID:	50765
UniProt ID:	<u>Q9JKX3</u>
Cytogenetics:	5 G2
Gene Summary:	<p>Mediates cellular uptake of transferrin-bound iron in a non-iron dependent manner. May be involved in iron metabolism, hepatocyte function and erythrocyte differentiation. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus than isoform a. Variants 2, 3, 4, and 5 all encode the same isoform (b).</p>