

Product datasheet for **MR231167**

Tfr2 (NM_001289509) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR231167 representing NM_001289509
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCAACGTTGGGTCTACTTCGGAGAGTGAACAGTGGTCCCAAGACCCTCTCAGACCATCTACA
 GACGCGTGGAAGGCCCTCAGCTGGAGCACCTGGAGGAGGAAGACAGGGAGGAAGGGCGGAGCTTCTGC
 CCAATTCTGCCCATGGAACCAAGGCCCTGAGCACTTAGGCTCCTGTCCCGGAGGTCAATCCCAT
 CCCTGGGCTGCAGCAGGTGAAAGGCTGCCCTATCTGGTCTGATCACCTGCTAATCTTCACTGGGG
 CCTTCTCTAGGCTACGTGGCCTTTCGAGGGTCTGCCAGGCGTGTGGGGACTCCGTGTTGGTGGTGA
 TGAAGATGTCAACCTGAGGACTCCGGCCGACCAGTGTACTGGAGCGACCTCCAGGCCATGTTTCTC
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 GACTGACACGCACTACGTGGGACTTCAGTTCAGATCCGGCTCAGCTAACACCCTGCACTGGGTGGAT
 GCAGACGGGAGGCTCCAGGAGCAGTACCGCTGGAGGATCCGGAAGTCTACTGTCCCTACAGCGCCACC
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 GGGCGTGGAGCTGGCCGGCAGCCTCCTGCTAGTGCAGTGGAAATTAAGTTCGCCCAGAAGGTAGCC
 GTTGCCAGGACTTTGGGGCTCAAGGAGTGTGATATACCCTGACCCATCAGACTTCTCCAGGATCCCC
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 CTAAGACCAGCCCCCTTCTCGTCAGCCTCATTGAGAATATCTTGAAGCAGGTGGACTCCCCTAACCATAG
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 TGGATTACAAGGATGACGACGATAAGGTTTAA

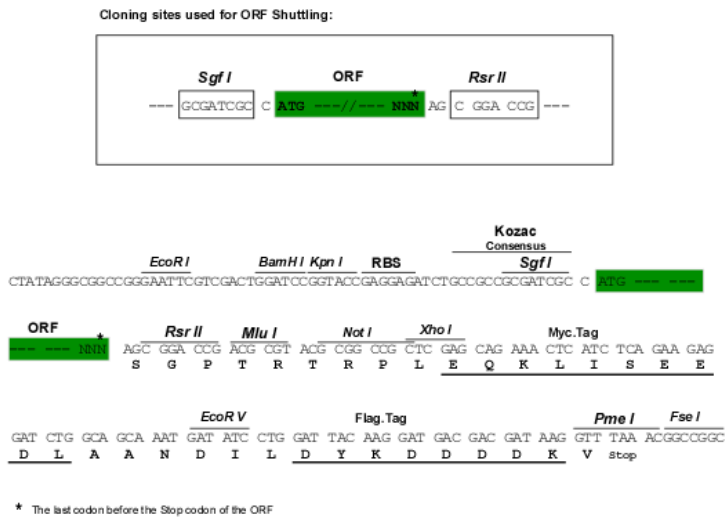
Protein Sequence: >MR231167 representing NM_001289509
Red=Cloning site Green=Tags(s)

MEQRWGLLRVQQWSPRPSQTIYRRVEGPQLEHLEEDREEGAELPAQFCPMELKGPEHLGSCPGRSIPI
PWAAAGRKAAPYLVLITLLIFTGAFLLGYVAFRGSCQACGDSVLVDEEDVNPEDSGRTTLYWSDLQAMFL
RFLGEGRMEDTIRLTSRERVAGSARMATLVQDILDKLSRQKLDHVWTDTHYVGLQFPDPAHANTLHWVD
ADGSVQEQLPLEDPEVYCPYSATGNATGKLVYAHYGRSEDLQDLKAKGVELAGSLLLVRVGITSFAQKVA
VAQDFGAQGVLIYPDPDFSQDPHKPGLSSHQAVYGHVHLGTGDPYTPGFPSFNQTQFPPESSGLPSIP
AQPISADIADQLLRKLTGPVAPQEWKGHLSGSPYRLGPGDLRLVNNHRVSTPISNIFACIEGFAEPDH
YVIGAQRDAWGPAAKSAVGTAILLELVRTFSSMVSNGFRPRRSLFISWDGGDFGSVGATEWLEGYLS
VLHLKAVVYVSLDNSVLGDGKFHAKTSPLLVSLEIENILKQVDSPNHSGQTLYEQVALTHPSWDAEVIQPL
PMDSSAYSFTAFAGVPAVEFSMEDDRVYPFLHTKEDTYENLHKMLRGRLPAVVQAVAQLAGQLLIRLSH
DHLLPLDFGRYGDVLRHIGNLNEFSGDLKERGLTLQWVYSARGDYIRAAEKLKEIYSSERNDERLMM
YNVIRIMRVEFYFLSQYVSPADSPFRHIFLGQGDHTLGALVDHLRMLRADGSGAASRLTAGLGFQESRFR
RQLALLTWTLQGAANALSGDVWNIDNNF

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001289509

ORF Size: 2394 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_001289509.1](#), [NP_001276438.1](#)

RefSeq Size: 3597 bp

RefSeq ORF: 2397 bp

Locus ID: 50765

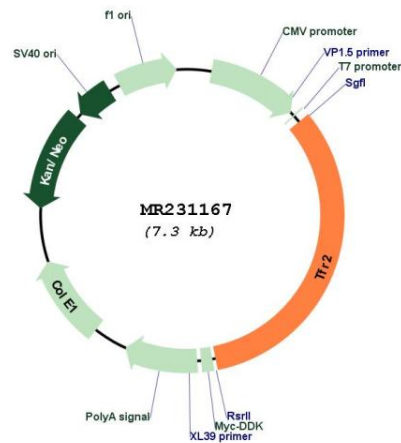
UniProt ID: [Q9JKX3](#)

Cytogenetics: 5 G2

MW: 88.4 kDa

Gene Summary: 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]

Product images:



Circular map for MR231167