

## Product datasheet for **RC209184**

### Transferrin (TF) (NM\_001063) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Transferrin (TF) (NM_001063) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Transferrin
Synonyms:	HEL-S-71p; PRO1557; PRO2086; TFQTL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC209184 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGGCTCGCCGTGGGAGCCCTGCTGGTCTCGCCGCTCTGGGCTGTGTCTGGCTGTCCCTGATAAAA  
CTGTGAGATGGTGTGCAGTGTCCGAGCATGAGGCCACTAAGTGCCAGAGTTTCCGCGACCATATGAAAAG  
CGTCATCCATCCGATGGTCCCAGTGTTGCTTGTGTGAAGAAAGCCTCCTACCTTGATTGCATCAGGGCC  
ATTGCGGCAAACGAAGCGGATGCTGTGACACTGGATGCAGGTTTGGTGTATGATGCTTACCTGGCTCCCA  
ATAACCTGAAGCCTGTGGTGGCAGAGTTCTATGGGTCAAAGAGGATCCACAGACTTTCTATTATGCTGT  
TGCTGTGGTGAAGAAGGATAGTGGCTTCCAGATGAACCAGCTTCGAGGCAAGAAGTCTGCCACACGGGT  
CTAGGCAGGTCGCTGGGTGGAACATCCCATAGGCTTACTTTACTGTGACTTACCTGAGCCACGTAAC  
CTCTTGAGAAAGCAGTGGCCAATTTCTTCTCGGCAGCTGTGCCCTTGTGCGGATGGGACGGACTTCCC  
CCAGCTGTGTCAACTGTGTCCAGGTGTGGCTGTCCACCCTTAACCAATACTTCGGCTACTCAGGAGCC  
TTCAAGTGTCTGAAGAATGGTGTGGGGATGTGGCCTTTGTCAAGCACTGACTATATTTGAGAACTTGG  
CAAACAAGGCTGACAGGGACCAGTATGAGCTGCTTTCCTGGACAACACCCGGAAGCCGGTAGATGAATA  
CAAGGACTGCCACTTGGCCCAGGTCCTTCTCATACCGTCTGGCCCGAAGTATGGGCGGCAAGGAGGAC  
TTGATCTGGGAGCTTCTCAACCAGGCCAGGAACATTTTGGCAAAGACAAATCAAAGAATTCCTCACTAT  
TCAGCTCTCCTCATGGGAAGGACTGCTGTTTAAAGACTCTGCCACGGGTTTTTAAAAGTCCCCCCAG  
GATGGATGCCAAGATGTACCTGGGCTATGAGTATGTCACTGCCATCCGGAATCTACGGGAAGGCACATGC  
CAAGAAGCCCCAACAGATGAATGCAAGCCTGTGAAGTGGTGTGCGCTGAGCCACCAGAGAGGCTCAAGT  
GTGATGAGTGGAGTGTTAACAGTGTAGGGAAAATAGAGTGTGTATCAGCAGAGACCACCGAAGACTGCAT  
CGCCAAGATCATGAATGGAGAAGCTGATGCCATGAGCTTGGATGGAGGGTTTTGTCTACATAGCGGGCAAG  
TGTGGTCTGGTGCCTGTCTTGGCAGAAAACACAATAAGAGCGATAATTGTGAGGATACACCAGAGGCAG  
GGTATTTTGTGTAGCAGTGGTGAAGAAATCAGCTTCTGACCTCACCTGGGACAATCTGAAAGGCAAGAA  
GTCCTGCCATACGGCAGTTGGCAGAACCCTGGCTGGAACATCCCATGGGCTGCTCTACAATAAGATC  
AACCACTGCAGATTTGATGAATTTTTCAGTGAAGGTTGTGCCCTGGGTCTAAGAAAGACTCCAGTCTCT  
GTAAGCTGTGTATGGGCTCAGGCCTAACCTGTGTGAACCAACAACAAGAGGGATACTACGGCTACAC  
AGGCGCTTTCAGGTGTCTGGTTGAGAAGGGAGATGTGGCCTTTGTGAAACACCAGACTGTCCACAGAAC  
ACTGGGGGAAAAACCTGATCCATGGGCTAAGAATCTGAATGAAAAAGACTATGAGTTGCTGTGCCTTG  
ATGGTACCAGGAAACCTGTGGAGGAGTATGCGAACTGCCACTGGCCAGAGCCCCGAATCAGCTGTGGT  
CACACGGAAAGATAAGGAAGCTTGCCTCCACAAGATATTACGTCAACAGCAGCACCTATTTGGAAGCAAC  
GTAAGTACTGCTCGGGCAACTTTTGTGTTCCGGTTCGGAAACCAAGGACCTTCTGTTCCAGAGATGACA  
CAGTATGTTTGGCCAACTTTCATGACAGAAACACATATGAAAAACTTAGGAGAAGAATATGTCAAGGC  
TGTTGGTAACCTGAGAAAATGCTCCACCTCATCACTCCTGGAAGCCTGCACTTTCCTGAGACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGTTTAA

**Protein Sequence:** >RC209184 protein sequence  
 Red=Cloning site Green=Tags(s)

MRLAVGALLVCAVLGLCLAVPDKTVRWCAVSEHEATKCQSFDRHMKSVIPSDGSPVACVKKASYLDCIRA  
 IAANEADAVTL DAGL VYDAYLAPNNLKPVVAEFYGSKEDPQTFFYAVAVVKKDSGFQMNQLRGKKSCHTG  
 LGRSAGWNIPIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTDFFPQLCQLCPGCGCSTLNQYFGYSGA  
 FKCLKNGAGDVAFVKHSTIFENLANKADRQYELLCLDNTRKPVDEYKDCHLAQVPSHTVVARSMGGKED  
 LIWELLNQAQEHFGKDKSKEFQLFSSPHGKDLLFKDSAHGFLKVPPRMDAKMYLGYEYVTAIRNLREGTC  
 QEAPTDECKPVKWCALSHHERLKCDEWSVNSVGKIECVSAETTEDCIAKIMNGEADAMSLDGGFVYIAGK  
 CGLVPVLAENYKSDNCEDTPEAGYFAVAVVKKASDLTWDNLKGGKSCHTAVGRTAGWNIPMGLLYNKI  
 NHRCFDEFFSEGCAPGSKKSSSLCKLCMGSGNLCEPNNKEGYYGYTGAFRCLVEKGDVAFVKHQTVPQN  
 TGGKNPDPWAKNLNEKDYELLCLDGTRKPVVEYANCHLARAPNHAVVTRKDKEACVHKILRQQQLFGSN  
 VTDCSGNFCLFRSEKDLLFRDDTVCLAKLHDRNTYEKYLGEYVKA VGNLKRCSTSSLLEACTFRRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6155\\_e12.zip](https://cdn.origene.com/chromatograms/mk6155_e12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001063

**ORF Size:** 2094 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](mailto: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](#)

**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\\_001063.4](#)

**RefSeq Size:** 2808 bp

**RefSeq ORF:** 2097 bp

**Locus ID:** 7018

**UniProt ID:** [P02787](#)

**Cytogenetics:** 3q22.1

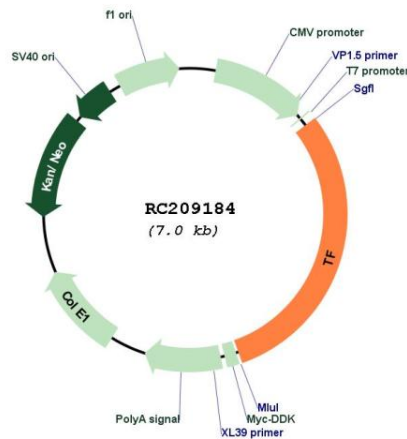
**Domains:** TR\_FER

**Protein Families:** Druggable Genome, Secreted Protein

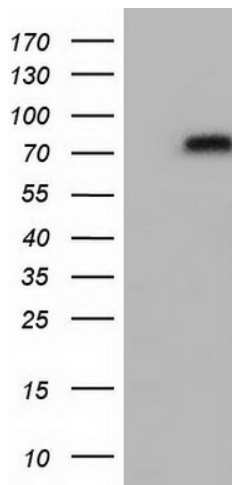
**MW:** 77.1 kDa

**Gene Summary:**

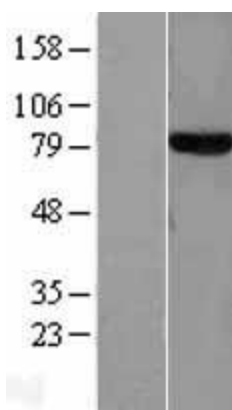
This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum. [provided by RefSeq, Sep 2009]

**Product images:**


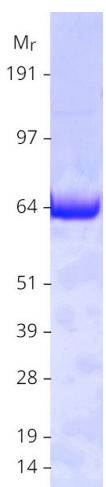
Circular map for RC209184



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TF (Cat# RC209184, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TF (Cat# [TA500848])(1:2000). Positive lysates [LY400433] (100ug) and [LC400433] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400433]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209184 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TF protein (Cat# [TP309184]). The protein was produced from HEK293T cells transfected with TF cDNA clone (Cat# RC209184) using MegaTran 2.0 (Cat# [TT210002]).