

## Product datasheet for **RC234608**

### Transferrin Receptor 2 (TFR2) (NM\_001206855) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Transferrin Receptor 2 (TFR2) (NM_001206855) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Transferrin Receptor 2
Synonyms:	HFE3; TFRC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234608 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCCGCTCTGACTCAGGACATTCGCGGGCGCTCTCCGCCAGAAGCTGGACCAGTGTGGACCGACA  
 CGCACTACGTGGGGCTGCAATCCCGGATCCGGCTCACCCCAACACCCTGCACTGGTTCGATGAGGCCGG  
 GAAGGTCGGAGAGCAGCTGCCGCTGGAGGACCCTGACGTCTACTGCCCTACAGCGCCATCGGCAACGTC  
 ACGGGAGAGCTGGTGTACGCCACTACGGGCGGCCGAAGACCTGCAGGACCTGCGGGCCAGGGCGTGG  
 ATCCAGTGGGCCCTGCTGCTGGTGCCTGGGGTGTATCAGCTTCGCCAGAAGGTGACCAATGCTCA  
 GGACTTCGGGGCTCAAGGAGTGTCTATATACCCAGAGCCAGCGGACTTCTCCAGACCCACCAAGCCA  
 AGCCTGTCCAGCCAGCAGGACGTGTATGGACATGTGCACCTGGAACTGGAGACCCCTACACACCTGGCT  
 TCCCTTCCTTCAATCAAACCCAGTTCCTCCAGTTGCATCATCAGGCCTCCAGCATCCAGCCCAGCC  
 CATCAGTGCAGACATTGCCTCCCGCTGCTGAGGAAGCTCAAAGGCCCTGTGGCCCCCAAGAATGGCAG  
 GGGAGCCTCCTAGGCTCCCTTATCACCTGGGCCCCGGGCCACGACTGCGGCTAGTGGTCAACAATCACA  
 GGACCTCCACCCCATCAACAACATCTTCGGCTGCATCGAAGGCCGCTCAGAGCCAGATCACTACGTTGT  
 CATCGGGCCAGAGGGATGCATGGGGCCAGGAGCAGCTAAATCCGCTGTGGGACGGCTATACTCCTG  
 GAGCTGGTGGGACCTTTTCTCCATGGTGAACAACGGCTTCGGGCCCGAGAAGTCTCCTCTTTCATCA  
 GCTGGGACGGTGGTGACTTTGGAAGCGTGGGCTCCACGGAGTGGCTAGAAGGCTACCTCAGCGTGTGCA  
 CCTCAAAGCCGTAGTGTACGTGAGCCTGGACAACGAGTGTGGGGATGACAAGTTTCATGCCAAGACC  
 AGCCCCCTCTGACAAGTCTCATTGAGAGTGTCTGAAGCAGGTGGATTCTCCCAACCAAGTGGGCGAGA  
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 CAGGCCTACCCATTCTGCACACAAAGGAGGACACTTATGAGAACCTGCATAAGGTGCTGCAAGGCCGCC  
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 GGGGACCTCAAGGCCCGGGCTGACCTGCAGTGGGTGACTCGGCGGGGGGACTACATCCGGGCGG  
 CGGAAAAGCTGCGGCAGGAGATCTACAGCTCGGAGGAGAGACGAGCGACTGACACGCATGTACAACGT  
 GCGCATAATGCGGGTGGAGTTCTACTTCTTTCCAGTACGTGTGCCAGCCGACTCCCCGTTCCGCCAC  
 ATCTTCATGGGCCGTGGAGACCACGCTGGGCGCCCTGCTGGACCACCTGCGGCTGCTGCGCTCCAACA  
 GCTCCGGGACCCCGGGGCCACCTCCTCCACTGGCTTCCAGGAGAGCCGTTTCCGGCGTCACTAGCCCT  
 GCTCACCTGGACGCTGAAGGGGACGCAATGCGCTTAGCGGGGATGCTGGAACATTGATAACAACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

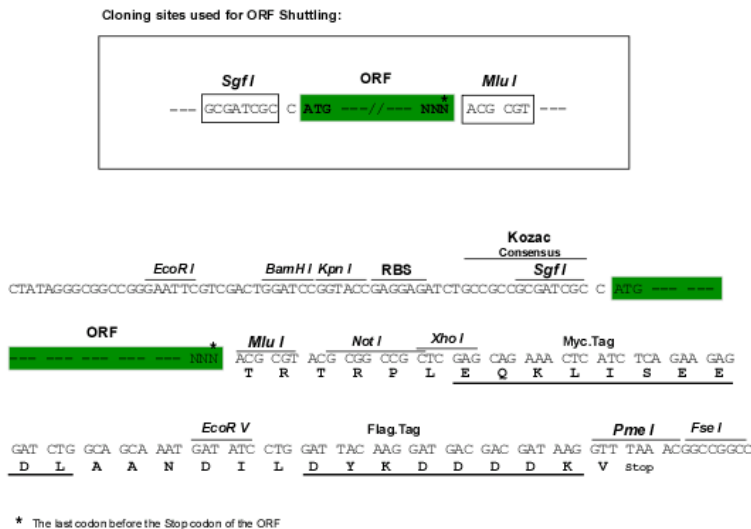
>RC234608 protein sequence  
 Red=Cloning site Green=Tags(s)

MAALTQDIRAALSRQKLDHWTDTHYVGLQFPDPAHPNTLHWVDEAGKVGELPLEDPDVYCPYSAIGNV  
 TGELVYAHYGRPEDLQDLRARGVDPVGRLLLVRVGVISFAQKVTNAQDFGAQGVLIYEPADFSQDPPKP  
 SLSSQQAVYGHVHLGTGDPYTPGFPSFNQTQFPVASSGLPSIPAQPIASADIASRLRLKGPVAPQEWQ  
 GSLLGSPYHLGPPRLRLVNNHRTSTPINNIFGCI EGRSEPDHYVVIGAQRDAWGPAAKSAVGTAILL  
 ELVRTFSSMVSNGFRPRRSLLFISWDGGDFGSVSTEWLEGYLSVLHLKAVVYVSLDNAVLGDDKFHAKT  
 SPLLTSLIESVLKQVDSPNHSGQTLYEQVFTNPSWDAEVIRPLPMDSSAYSFTAFVGVPAVEFSFMEDD  
 QAYPFLHTKEDTYENLHKVLQGRLPVAQAQAVLQAGLLIRLSDRLLPLDFGRYGDVVLRHIGNLNEFS  
 GDLKARGLTLQWVYSARGDYIRAAEKLRQEIYSSEERDERLTRYNVRIMRVEFYFLSQYVSPADSPFRH  
 IFMGRGDHTLGALLDHLRLRSNSSGTPGATSSTGFQESRFRRLALLTWTLQGAANALSGDVWVWIDNNF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001206855

ORF Size: 1890 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\\_001206855.1](#), [NP\\_001193784.1](#)

RefSeq Size: 2471 bp

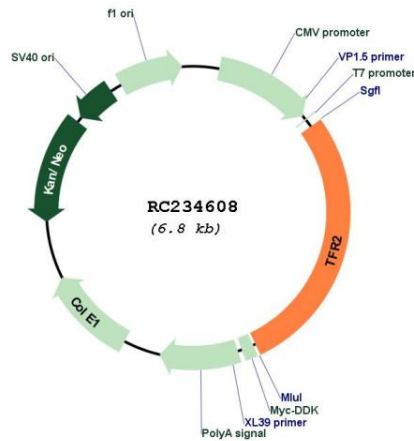
RefSeq ORF: 1893 bp

Locus ID: 7036

UniProt ID: [Q9UP52](#)

**Cytogenetics:** 7q22.1  
**Protein Families:** Druggable Genome, Protease, Transmembrane  
**MW:** 69.6 kDa  
**Gene Summary:** This gene encodes a single-pass type II membrane protein, which is a member of the transferrin receptor-like family. This protein mediates cellular uptake of transferrin-bound iron, and may be involved in iron metabolism, hepatocyte function and erythrocyte differentiation. Mutations in this gene have been associated with hereditary hemochromatosis type III. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011]

**Product images:**



Circular map for RC234608