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Product datasheet for SC310106

Transferrin Receptor 2 (TFR2) (NM_003227) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transferrin Receptor 2 (TFR2) (NM_003227) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transferrin Receptor 2
Synonyms:	HFE3; TFRC2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_003227 edited
CACGTCTGGAAGGCTGGACTGAGGCCAGGACTGTGCCCCCACCCTTGGGGGTGGTGAGGA
GCAGCCTTGGTTCAGGCTGCCTGCCAGGACTGATAAGGGGCCCTCCTAGGGCTCCCACAA
ACGGTTTATCGGTTTATCGCTGGGGGACAGCCTGCAGGCTTCAGGAGGGGACACAAGCAT
GGAGCGGCTTTGGGGTCTATTCCAGAGAGCGCAACAACTGTCCCCAAGATCCTCTCAGAC
CGTCTACCAGCGTGTGGAAGGCCCCCGGAAAGGGCACCTGGAGGAGGAAGAGGAAGACGG
GGAGGAGGGGGCGGAGACATTGGCCCACTTCTGCCCCATGGAGCTGAGGGGCCCTGAGCC
CCTGGGCTCTAGACCCAGGCAGCCAAACCTCATTCCCTGGGCGGCAGCAGGACGGAGGGC
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CGTCGCCTTCCGAGGGTCCTGCCAGGCGTGCGGAGACTCTGTGTTGGTGGTCAGTGAGGA
TGTCAACTATGAGCCTGACCTGGATTTCCACCAGGGCAGACTCTACTGGAGCGACCTCCA
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CACGGGAGAGCTGGTGTACGCCCACTACGGGCGGCCCGAAGACCTGCAGGACCTGCGGGC
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CCAGTTCCCTCCAGTTGCATCATCAGGCCTTCCCAGCATCCCAGCCCAGCCCATCAGTGC
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TAAATCCGCTGTGGGGACGGCTATACTCCTGGAGCTGGTGCGGACCTTTTCCTCCATGGT
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GAGCAACGGCTTCCGGCCCCGCAGAAGTCTCCTCTTCATCAGCTGGGACGGTGGTGACTT
TGGAAGCGTGGGCTCCACGGAGTGGCTAGAGGGCTACCTCAGCGTGCTGCACCTCAAAGC
CGTAGTGTACGTGAGCCTGGACAACGCAGTGCTGGGGGATGACAAGTTTCATGCCAAGAC
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TGGGGACCTCAAGGCCCGCGGGCTGACCCTGCAGTGGGTGTACTCGGCGCGGGGGGACTA
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GGGCGCCCTGCTGGACCACCTGCGGCTGCTGCGCTCCAACAGCTCCGGGACCCCCGGGGC
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TTGAATGATTCAGGGTCAGGGAGGTGGCTCAGAGTCCACCTCTCATTGCTGATCAATTTC
TCATTACCCCTACACATCTCTCCACGGAGCCCAGACCCCAGCACAGATATCCACACACCC
CAGCCCTGCAGTGTAGCTGACCCTAATGTGACGGTCATACTGTCGGTTAATCAGAGAGTA
GCATCCCTTCAATCACAGCCCCTTCCCCTTTCTGGGGTCCTCCATACCTAGAGACCACTC
TGGGAGGTTTGCTAGGCCCTGGGACCTGGCCAGCTCTGTTAGTGGGAGAGATCGCTGGCA
CCATAGCCTTATGGCCAACAGGTGGTCTGTGGTGAAAGGGGCGTGGAGTTTCAATATCAA
TAAACCACCTGATATCAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003227 unedited
CATTTCTCGCTACCCTAGACTCATTATAGGGTCGGCCTGCGATCCGGCACCAGCACGTCT
TGGAAGCTGGACTGAGGCCAGGACTGTGCCCCCACCCTTGGGGGTGGTGAGGAGCAGCCT
TGGTTCAGGCTGCCTGCCAGGACTGATAAGGGGCCCTCCTAGGGCTCCCACAAACGGTTT
ATCGGTTTATCGCTGGGGGACAGCCTGCAGGCTTCAGGAGGGGACACAAGCATGGAGCGG
CTTTGGGGTCTATTCCAGAGAGCGCAACAACTGTCCCCAAGATCCTCTCAGACCGTCTAC
CAGCGTGTGGAAGGCCCCCGGAAAGGGCACCTGGAGGAGGAAGAGGAAGACGGGGAGGAG
GGGGCGGAGACATTGGCCCACTTCTGCCCCATGGAGCTGAGGGGCCCTGAGCCCCTGGGC
TCTAGACCCAGGCAGCCAAACCTCATTCCCTGGGCGGCAGCAGGACGGAGGGCTGCCCCC
TACCTGGTCCTGACGGCCCTGCTGATCTTCACTGGGGCCTTCCTACTGGGCTACGTCGCC
TTCCGAGGGTCCTGCCAGGCGTGCGGAGACTCTGTGTTGGTGGTCAGTGAGGATGTCAAC
TATGAGCCTGACCTGGATTTCCACCAGGGCAGACTCTACTGGAGCGACCTCCAGGCCATG
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GAACGGGTGGCANGCCTCGCCGGNATGGCCGCTCTGACTCANGACATTCGCGCGGGGCTC
TTCCGCCAGAAGCTGGACCACGTGTGGGACCGACACGCACTACGTGGGGCTGCAATTTCC
GGATTCCGGCTCACCCCA

Restriction Sites: Please inquire

ACCN: NM_003227

Insert Size: 3000 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
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_003227.3, NP_003218.2
RefSeq Size:	2891 bp
RefSeq ORF:	2406 bp
Locus ID:	7036
UniProt ID:	Q9UP52
Cytogenetics:	7q22.1
Protein Families:	Druggable Genome, Protease, Transmembrane
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] Transcript Variant: This variant (1) encodes the longer isoform (1, also known as alpha).