

Product datasheet for **SC316996**

CD71 (TFRC) (NM_003234) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD71 (TFRC) (NM_003234) Human Untagged Clone
Tag: Tag Free
Symbol: CD71
Synonyms: CD71; IMD46; p90; T9; TFR; TFR1; TR; TRFR
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003234 edited
CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTCTCTGTGTGGCAGTTCAGAATGA
TGGATCAAGCTAGATCAGCATTCTCTAACTTGTGGTGGAGAACCATTGTCATATACCC
GGTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGATGAACTTGCTG
TAGATGAAGAAGAAAATGCTGACAATAACACAAAAGCCAATGTCACAAAACAAAAAGGT
GTAGTGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTA
TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACAAAACTGAGTGTGAGAGACTGG
CAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCAGCACGTCGCT
TATATTGGGATGACCTGAAGAGAAAGTTGTCGGAGAACTGGACAGCACAGACTTCACCG
GCACCATCAAGCTGCTGAATGAAAATTCATATGTCCTCGTGAGGCTGGATCTCAAAAAG
ATGAAAATCTTGGCTTGTATGTTGAAAATCAATTCGTGAATTTAACTCAGCAAAGTCT
GGCGTGATCAACATTTTGTAAAGATTCAAGTCAAAGACAGCGCTCAAACTCGGTGATCA
TAGTTGATAAGAACGGTAGACTTGTTCCTGGTGGAGAATCCTGGGGTTATGTGGCGT
ATAGTAAGGCTGCAACAGTTACTGGTAACTGGTCCATGCTAATTTTGGTACTAAAAAG
ATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTATTGTCAGAGCAGGGAAAA
TCACCTTTCAGAAAAAGTTGCAATGCTGAAAGCTTAAATGCAATTTGGTGTGTTGATAT
ACATGGACCAGACTAAATTTCCATTGTTAACGCAGAATTTTCAATCTTTGGACATGCTC
ATCTGGGGACAGGTGACCCTTACACACCTGGATTCCCTTCCTTCAATCACACTCAGTTTC
CACCATTCTGGTCACTCAGGATTGCCTAATATACCTGTCCAGACAATCTCCAGAGCTGCTG
CAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACTGGAAAACAGACTCTA
CATGTAGGATGGTAACTCAGAAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGA
AAGAGATAAAAAATTTTAAACATCTTTGGAGTTATTAAGGCTTTGTAGAACCAGATCACT
ATGTTGTAGTTGGGGCCAGAGAGATGCATGGGGCCCTGGAGCTGCAAAAATCCGGTGTAG
GCACAGCTCTCTATTGAACTTGCCAGATGTTCTCAGATATGGTCTTAAAAGATGGGT
TTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGTGGAGACTTTGGATCGGTTG
GTGCCACTGAATGGCTAGAGGGATACCTTCGTCCCTGCATTTAAAGGCTTTCACCTATA
TTAATCTGGATAAAGCGTTCTTGGTACCAGCAACTTCAAGTTTCTGCCAGCCACTGT



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TGTATACGCTTATTGAGAAAACAATGCAAAATGTGAAGCATCCGTTACTGGGCAATTC
 TATATCAGGACAGCAACTGGGCCAGCAAAGTTGAGAACTCACTTTAGACAATGCTGCTT
 TCCCTTTCCTTGCATATTCTGGAATCCCAGCAGTTTCTTCTGTTTTGCGAGGACACAG
 ATTATCCTTATTTGGGTACCACCATGGACACCTATAAGGAACTGATTGAGAGGATTCCTG
 AGTTGAACAAAGTGGCACGAGCAGCTGCAGAGGTCGCTGGTCAGTTCGTGATTAACATA
 CCCATGATGTTGAATTGAACCTGGACTATGAGAGGTACAACAGCCAACCTGCTTTCATTTG
 TGAGGGATCTGAACCAATACAGAGCAGACATAAAGGAAATGGGCCTGAGTTTACAGTGGC
 TGTATTCTGCTCGTGGAGACTTCTCCGTGCTACTTCCAGACTAACAACAGATTTCCGGGA
 ATGCTGAGAAAACAGACAGATTTGTCATGAAGAACTCAATGATCGTGTGATGAGAGTGG
 AGTATCACTTCTCTCTCCCTACGTATCTCCTAAAGAGTCTCCTTCCGACATGTCTTCT
 GGGGCTCCGGCTCTCACACGCTGCCAGCTTTACTGGAGAACTGAACTGCGTAAACAAA
 ATAACGGTGCTTTAATGAAACGCTGTTTCAAGAACAGTGGCTCTAGCTACTTGGACTA
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 AGTTAAAGTGAATAACCACTTAAAAATGTCCATGATGGAATATTTCCCTATCTCTAGAA
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 AACCAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTA
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 TTGAAAGACCTTCTCAAATGAGATCTAAGCCTTCCATAAGGAATGTAGCTGGTTTCTCT
 CATTCTGAAAGAACAGTTAACTTTTCAAGAGATGGGCTTGTCTTCTGCCAATGAGG
 TCTGAAATGGAGTCTTCTGCTGGATAAAATGAGGTTCAACTGTTGATTGACGGAATAA
 GGCTTAATATGTTAACCTCAGTGTCTTTATGAAAAGAGGGGACCAGAAGCCAAGACT
 TAGTATATTTTCTTTTCTCTGTCCCTTCCCCATAAGCCTCCATTTAGTTCTTTGTTAT
 TTTTGTCTTCCAAAGCACATTGAAAGAGAACCAGTTTCAGGTGTTTAGTTGCAGACTC
 AGTTTGTGAGACTTTAAAGAATAATGCTGCCAAATTTGGCCAAAGTGTAACTCTTAG
 GGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTATTTATCAGTGACAGAG
 TTCATAAAATGGTGTTTTTTAAATAGAATAAATTATCGGAAGCAGTGCCTCCATAA
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 ACAGATACTGGAAGTTTTGCATTTATGGTCAACACTTAAGGGTTTTAGAAAACAGCCGTC
 AGCCAAATGTAATTGAATAAAGTTGAAGCTAAGATTTAGAGATGAATTAATTTAATTAG
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 TTGTGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCTGCAAAATTT
 TATAGCTCAGTTTATCCAAGGTGAACCTAATTTCCATTTTGGCAAAATTTCCAGTACCT
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 AGTTTTAGTTGCAGAAACATTTTGTGGTATTAAAGCATTGGGTGGGTAATTTCAACCACT
 GTAAAATGAAATTAACATAAAATTTGAAATTTAGCTGGGTTTTTGTACCTTTATGGTT
 TCTCCAGTCTCTACTTAATGAGATAGTAGCATAACATTTATAATGTTTGCTATTGACAA
 GTCATTTTAACTTTATCACATTATTTGCATGTTACCTCTATAAACTTAGTGGGACAAG
 TTTTAAATCCAGAATTGACCTTTTACTTAAAGCAGGGGACTTTGTATAGAAGGTTTGGG
 GGCTGTGGGAAGGAGAGTCCCCTGAAGGTCTGACACGCTCGCTACCCATTCGTGGTGA
 TCAATTAATGTAGGTATGAATAAGTTCGAAGCTCCGTGAGTGAACCATCATTATAAACG
 TGATGATCAGCTGTTTGTATAGGGCAGTTGAAACGGCCTCCTAGGGAAAAGTTTCATAG
 GGTCTCTCAGGTTCTTAGTGCACTTACCTAGATTTACAGCCTCACTTGAATGTGTAC
 TACTCACAGTCTCTTAACTTTCAGTTTTATCTTAAATCTCTCTTTTATCTTGGACTGA
 CATTTAGCGTAGCTAAGTAAAAGGTCATAGCTGAGATTCCTGGTTCCGGTGTTACGCAC
 ACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCA
 TGCATTTTGCAGCAGTGAGTCTCTTTCAGAAAACCTTTTCTACAGTTAGGGTTGAGTTAC

TTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAG
 TGACAAGCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGATGGGCCTTTTGGAGGTAA
 GGATAAAATGAATGAGTTCTGTCATGATTCATTTCTAGAACTTGCAATGACCTTTACTG
 TGTTAGCTCTTTGAATGTTCTTGAATTTTACTTTCTTTGTAAACAAATAATATGTCC
 TTATCATTGTATAAAAGCTGTTATGTGCAACAGTGTGGAGATTCCCTTGTCTGATTTAATA
 AAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_003234 unedited
 GACATATGTATACGACTCCTATAGGGCGGCCGCTCTCTATCGGCACGAGGCGAGAGAGA
 GAGAGAACTAGTGTGAGTGCAGGCTTCTAGAACTACACCGACCCTCGTGTCTCCCTTCA
 TCCTGCGGGGCTGGTGGAGCGGCCGCTCCGGTGTGTCCAGCAGCCATAGGGAGCCGCA
 CGGGGAGCGGAAAGCGGTGCGGCCCCAGGCGGGGCGCCGGATGGAGCGGGGCGCG
 AGCCTGTGGGGAAGGGGCTGTGGCGGCCCTCGAGCGGCTGCAGTTCTTCTGTGTGGCA
 GTTCAGAAATGATGGATCAAGCTAGATCAGCATTCTCTAACTTGTGGTGGAGAACCATT
 GTCATATACCCGTTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGAT
 GAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTCACAAA
 ACCAAAAAGTGTAGTGGAAATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTTCTT
 GATTGGATTTATGATTGGCTACTTGGGCTATTGTAAGGGGTAGAACAAAAACTGAGTG
 TGAGAGACTGGCAGAACCGAGTCTCCAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGC
 AGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAAGTTGTCGGAGAACTGGACAGCAC
 AGACTTACCAGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCTCGTGAGGCTGG
 ATCTCAAAGATGAAAATCTTGCCTTGTATGTTGAAAATCAATTCGTGAATTTAAACTC
 AGCAAGTCTGGCGTGATCAACATTTTGTAAAGATTCAGTTCAAAAGACAGCGCTCAAAC
 CCGTGATCATAGTGATAGACGTAGACTTGTTCCTGGTGGGAGAATTCTTGGGGTTAA
 TTGTG

**3' Read Nucleotide
 Sequence:**

>OriGene 3' genomic read for NM_003234 unedited
 TGTTGATGCACCTCAGGGCCGAGAGCACTGGGGAGGGTACAGGGATGCCACCCGGGA
 TCTGTTACAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCGGGTTAAATTTTTTTTATTAATCAAACAAGG
 AATCTCCACCCGTTGCACATAACACCTTTTATACAATGAAAAGGACATATCTTTTGT
 ACAAAAAAGTCTAAAATTTCAAAAACATTCAAAAACCTAACACAGTAAAGGTCAGGCAA
 TTTCTAAAATAGTGAATCATGACAAAACCTATTCTTTTATCCTTTACCTCCAAAAGGCC
 CATCTCCTTAACAAAAAACATCTCAAAACCAGGACCTTGTCACTATTCTGATATTTTCA
 TCAGGAATATTGACCCTGTTACCACGTACGGGCTTGATAGGAATTAACACCCCTAACT
 GTAAAAAAGGGTTTTCTGAAAAAATCACTGCTGCAAAATGCATGCCCTGTATTCATATT
 GTGTTATACAAAAGAACATGCCACATGCTTTTCAATTAAGTACGTGTGCGTAACACCCGAAC
 CAGGAATCTCAGCTATGACCTTTTCACTTACCTACGCTAAATGTCAGTCCAAGATAAAG
 AGGAGATTAAGATAAACCTGAAGAATAAAGAGACTGTGAGTAGTGACACATTCAAGTGA
 GGCTGTAATCTAGGTAAGTGACCACTAAGAACCTGAAGAGACCTATGACCTTTCCCTA
 AGAGGCCGTTCCACCTGCCCTATGAACAAACAGCTGATCATCACGTTTATAATGGATGG
 TCACTCACGGAGCTCGACTATTCATACCCTACATTATGATCACCACAAATGGGGTAGCAG
 AACGTGCAACCTTCAGGGACTTCTCTCCCCACAGGCC

Restriction Sites:

Please inquire

ACCN:

NM_003234

Insert Size:

5000 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_003234.1](#), [NP_003225.1](#)

RefSeq Size: 5010 bp

RefSeq ORF: 2283 bp

Locus ID: 7037

UniProt ID: [P02786](#)

Cytogenetics: 3q29

Domains: PA, TFR_dimer, Peptidase_M28

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Protease, Secreted Protein, Transmembrane

Protein Pathways: Endocytosis, Hematopoietic cell lineage

Gene Summary:

This gene encodes a cell surface receptor necessary for cellular iron uptake by the process of receptor-mediated endocytosis. This receptor is required for erythropoiesis and neurologic development. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.