

Product datasheet for **SC319387**

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003234 edited
 CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTCTCTGTGTGGCAGTTCAGAATGA
 TGGATCAAGCTAGATCAGCATTCTCTAACTTGTGGTGGAGAACCATTGTCATATACCC
 GGTTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGATGAACTTGCTG
 TAGATGAAGAAGAAAATGCTGACAATAACACAAAAGCCAATGTCACAAAACAAAAAGGT
 GTAGTGGAAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTA
 TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACAAAACTGAGTGTGAGAGACTGG
 CAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCAGCACGTCGCT
 TATATTGGGATGACCTGAAGAGAAAAGTTGTCGGAGAAAAGTGGACAGCACAGACTTCACCG
 GCACCATCAAGCTGCTGAATGAAAATTCATATGTCCTCGTGAGGCTGGATCTCAAAAAG
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 GCACAGCTCTCTATTGAACTTGCCAGATGTTCTCAGATATGGTCTTAAAAGATGGGT
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 GTGCCACTGAATGGCTAGAGGGATACCTTCGTCCCTGCATTTAAAGGCTTTCACCTATA
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TGTATACGCTTATTGAGAAAACAATGCAAAATGTGAAGCATCCGTTACTGGGCAATTC
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 TCCCTTTCCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTTTTTTCGAGGACACAG
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 TACTCACAGTCTCTTAACTCTTCAAGTTTTATCTTAAATCTCTCTTTTATCTTGGACTGA
 CATTTAGCGTAGCTAAGTAAAAGGTCATAGCTGAGATTCCTGGTTCCGGGTGTTACGCAC
 ACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCA
 TGCATTTTGCAGCAGTGAGTCTCTTTCAGAAAACCTTTTCTACAGTTAGGGTTGAGTTAC

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TTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAG
TGACAAGCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGATGGGCCTTTTGGAGGTAA
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TGTTAGCTCTTTGAATGTTCTTGAATTTTAGACTTTCTTTGTAAACAAATAATATGTCC
TTATCATTGTATAAAAGCTGTTATGTGCAACAGTGTGGAGATTCCTTGTCTGATTTAATA
AAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_003234

Insert Size: 5300 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:	<p>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]</p> <p>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.</p>