

Product datasheet for **RC200980**

CD71 (TFRC) (NM_003234) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
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)



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**ORF Nucleotide
Sequence:**

>RC200980 representing NM_003234
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGATCAAGCTAGATCAGCATTCTCTAATTGTTTGGTGGAGAACCATTGTCATATACCCGGTTCA
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 TGCTGACAATAACACAAAGGCCAATGTCACAAAACCAAAAGGTGTAGTGGAAAGTATCTGCTATGGGACT
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 CAAAACTGAGTGTGAGAGACTGGCAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAGGAGAGGACTTCCC
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 ACCGGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCTCGTGAGGCTGGATCTCAAAAGATGAAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC200980 representing NM_003234
 Red=Cloning site Green=Tags(s)

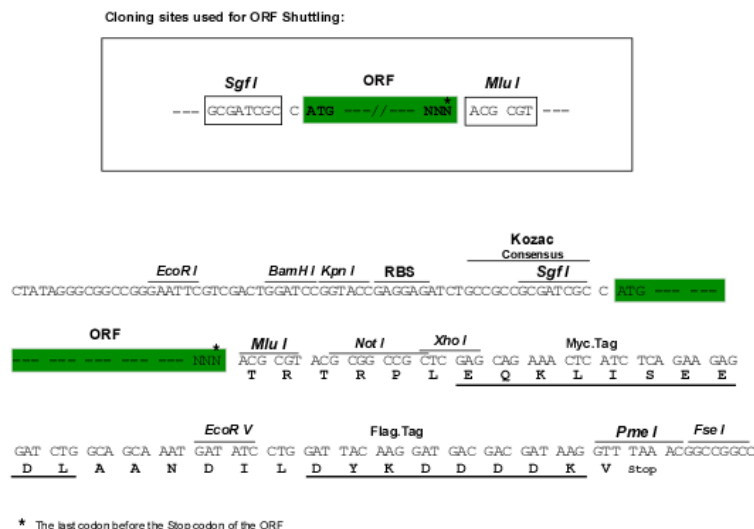
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 TGTIKLLNENSYPREAGSQDENLAL YVENQFREFKLSKVWRDQHFVKIQVKDSAQNSVIIVDKNGRLV
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 TDYPYLGTMTDYKELIERIPELNKVARAAAEVAGQFVIKLTHDVELNLDYERYNSQLLSFVRDLNQYRA
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 FWGSGSHTLPALLENLKLRLKQNGAFNETLFRNQLALATWTIQGAANALSGDVWDIDNEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3235_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003234

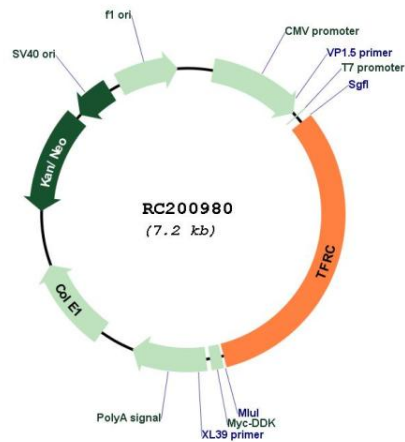
ORF Size: 2280 bp

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](#)

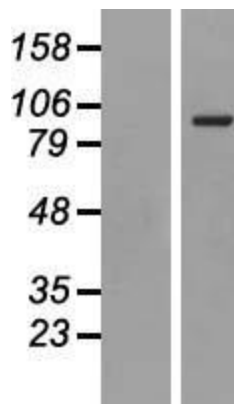
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_003234.4</u>
RefSeq Size:	5010 bp
RefSeq ORF:	2283 bp
Locus ID:	7037
UniProt ID:	<u>P02786</u>
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
MW:	84.7 kDa
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]

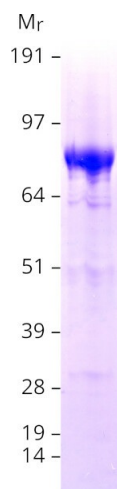
Product images:



Circular map for RC200980



Western blot validation of overexpression lysate (Cat# [LY426898]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226147] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TFRC protein (Cat# [TP300980]). The protein was produced from HEK293T cells transfected with TFRC cDNA clone (Cat# RC200980) using MegaTran 2.0 (Cat# [TT210002]).