

# Recombinant Human TFRC Protein, 89-760aa, N-6×His tagged

**Cat. No.** TFRC-33H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human TFRC protein (89-760aa), fused to His-tag at N-terminus, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 89-760aa                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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.                                                                                                                                                                                              |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 77.7 kDa (696aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | <p>MGSSHHHHHHSSGLVPRGSHMGSMCKGVEPKTECERLAGTESPVREEPGEDFPA</p> <p>ARRLYWDDLKRKLSEKLDSTDFTGTIKLLNENSYPREAGSQKDENLALYVENQFRE</p> <p>FKLSKVWRDQHFVKIQVKDSAQNSVIIVDKNGRLVYLVENPGGYVAYSKAATVTGKL</p> <p>VHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIV</p> <p>NAELSSFFGHAHLGTGDPYTPGFPNHTQFPSPRSSGLPNIPVQTISRAAAELFGN</p> <p>MEGDCPSDWKTDSTCRMVTSESKNVKLTVSNVLKEIKILNIFGVIKGFVEPDHYVVV</p> <p>GAQRDAWGPGAAKSGVGTALLLKLAKMFSDMVLKDGFPQPSRSIIFASWSAGDFGS</p> |

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VGATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVT  
GQFLYQDSNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKE  
LIERIPELNKVARAAAEVAGQFVIKLTHDVELNLDYERYNSQLLSFVRDLNQYRADIKE  
MGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLNDRVMRVEYHFLSPY  
VSPKESPFRHVFWGSGSHTLPALLENLKLKQNNGAFNETLFRNQLALATWTIQGA  
ANALSGDVWDIDNEF

**Purity** > 80% by SDS-PAGE

**Applications** SDS-PAGE, Denatured

**Storage** Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/mL (determined by Bradford assay)

**Storage Buffer** 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

**References**  
1. Rothenberger S., et al. (1987) Cell 49:423-431  
2. Tosoni D., et al. (2005) Cell 123:875-888

## GENE INFORMATION

**Gene Name** **TFRC** transferrin receptor (p90, CD71) [ Homo sapiens (human) ]

**Official Symbol** **TFRC**

**Synonyms** TFRC; transferrin receptor (p90, CD71); transferrin receptor protein 1; CD71; TFR1; T9; TR; TFR; p90; TRFR;

**Gene ID** **7037**

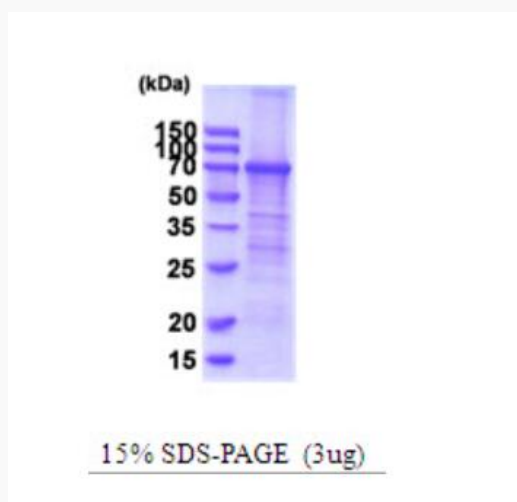
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|                |              |
|----------------|--------------|
| mRNA Refseq    | NM_001128148 |
| Protein Refseq | NP_001121620 |
| MIM            | 190010       |
| UniProt ID     | P02786       |

#### SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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