

## Recombinant Marmoset TFRC Protein, His-tagged

Cat. No. TfrC-01M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Marmoset TFRC Protein With His tag was expressed in HEK293.

**Species** Marmoset

**Source** HEK293

**Description** Cellular uptake of iron occurs via receptor-mediated endocytosis of ligand-occupied transferrin receptor into specialized endosomes. Endosomal acidification leads to iron release. The apotransferrin-receptor complex is then recycled to the cell surface with a return to neutral pH and the concomitant loss of affinity of apotransferrin for its receptor. Transferrin receptor is necessary for development of erythrocytes and the nervous system. Acts as a lipid sensor that regulates mitochondrial fusion by regulating activation of the JNK pathway.

**Molecular Mass** 76.5 kDa

**AA Sequence**

```

GYCKHVEPKIECQRLAGTESPAVENPEENLPVVPQLYWDDLKMLSEKLDTTDFTS
TIKLLNENSYVPREAGSQKDENLAWYIENQFRECKLSKVWRDEHFVKIQVKDSAQN
SVTITGTNSEFVYLVENPGGYVAYSQNAVVTGKLVHANFGTEKDFEDLDSPVNGSIVI
VRAGKITFAEKVANAESANAIGVLIYMDKTKFPIVDADVSFFGHAHLGTGDPYTPGFP
SFNHTQFPPSRSSGLPNIPVQTISRAAAERLFENMEGDCPSDWKTDSSCRMVTSQN
KSVKLSVSNVMKEIKILNIFGVIKGFVEPDYVVVGAQRDSWGPGAAKSSVGTALLLE
LAQTFSDMVLKDGFPQRSIVFASWSAGDFGSGATEWLEGYLSSLHLKAFTFINLD
KAVLGTSNFRVSASPLLYALIEKTMQEVKHPVTGLSLYQDSNWASKVEKLTFDAAF
    
```

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PFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIEKIPQLNKVARAAAEVAGQFMIK  
 LTHDVELNLDYERYNSQLLSFLRNLNQYRADIREMGLSLQWLYSARGDFFRATSRLT  
 TDFKNSEKTRDFVMKELNDRVMKVEYYFLSPYVSPRESPFRHIFWGSHTLSALL  
 EHLKLRKTNNRAFNETLFRNQLALATWTIQGAANALSGDIWDIDNEFHFFFFFF

**Purity** > 90% by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Concentration** 1.54 mg/mL

**Storage Buffer** PBS, pH 7.4

## GENE INFORMATION

**Gene Name** [TFRC transferrin receptor \[ Callithrix jacchus \(white-tufted-ear marmoset\) \]](#)

**Official Symbol** [TFRC](#)

**Synonyms** TFRC; transferrin receptor; transferrin receptor protein 1; transferrin receptor (p90, CD71); transferrin receptor 1

**Gene ID** [100407510](#)

**mRNA Refseq** [NM\\_001301847](#)

**Protein Refseq** [NP\\_001288776](#)

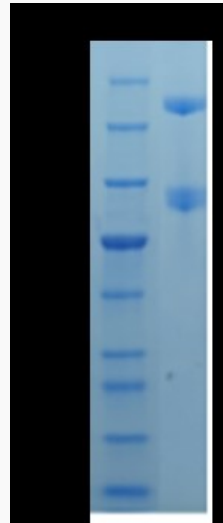
**UniProt ID** [H9BFK5](#)

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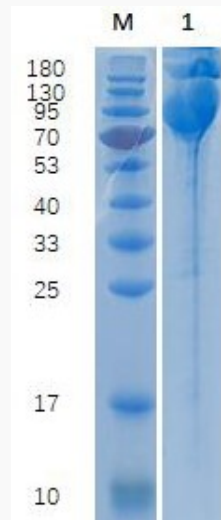
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**SDS-PAGE**



Reducing 12% SDS-PAGE analysis profile of purified TFRC (CBB stained)

**SDS-PAGE**



Non-reducing 12% SDS-PAGE analysis profile of purified TFRC (CBB stained)

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WB



Line 1-3: purified Marmoset TFRC protein

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