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National Institute of Child Health, Annual Report of Intramural Research: October 1, 1987 Through September 30, 1988 (Classic Reprint) (Hardback)

By U S Dept of Health and Huma Services

FBC LTD, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from National Institute of Child Health, Annual Report of Intramural Research: October 1, 1987 Through September 30, 1988 Summary OF work (use standard uneduced type. 00 not exceed the space provided.) The cells of higher eukaryotes acquire iron via the serum protein transferrin (tf) and a high-affinity cell surface transferrin receptor (tfr). The expression of the tfr is highly regulated (greater than 20-fold) by iron availability with higher levels of expression - occurring when iron is scarce. The regulation of the expression of the tfr is achieved by modulation of the level of the mrna encoding the receptor. At least two genetic loci were found to participate in this regulation of tfr mrna levels. A modest (2 to 3-fold) transcriptional regulation was found to be mediated by human genomic dna 5 of the transcription start site. We have molecularly cloned and partially characterized the promoter of the human tfr gene. However, the tfr cdna even when driven by a heterologous promoter remains highly regulated by iron. The tfr mrna is 5 kb in length of which approximately half is the 3 untranslated region (utr)....



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