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T-Cell Regulatory Gene CTLA-4 Polymorphism/ Haplotype Association with Autoimmune Pancreatitis Ming-Chu Chang, 1 Yu-Ting Chang, Yu-Wen Tien, 2 Po-Chin Liang, 3 I-Shiow Jan, 4 Abstract. Background: Autoimmune pancreatitis (AIP) is a distinct disease entity of chronic pancreatitis. Cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) is a key negative regulator of the T-cell immune response, and its gene is highly polymorphic. Genes and mechanisms involved in common complex diseases, such as the autoimmune disorders that affect approximately 5% of the population, remain obscure. Autoimmune Polyendocrine Syndromes - Download as PDF File (.pdf), Text File (.txt) or read online. Descripción de las diferentes entidades endocrinas de origen inmunológico y de base familiar - T-Cell Regulatory Gene CTLA-4 Polymorphism Haplotype Association With Autoimmune Pancreatitis (Clini