Chromosome 11 territory

TH2 LCR

Naïve T cells

IFN-γ promoter

Chromosome 10 territory

(a) Intra-chromosomal (cis) interaction

50 kb

LCR → β-Globin gene → Enhanced β-Globin transcription

(b) Inter-chromosomal (trans) interaction

Chromosome 11 territory

β-LCR

Differentiation

Chromosome 10 territory

β-Enhanced

Differentiated TH1 or TH2 cells