



EMSA showing the binding of KLF1 to the -123T>C/-124T>C probe but fails to bind to a WT probe containing the -123/-124 region of the HBG promoter in-vitro. Lanes 1-3 contain the Hbbt1-CACCC as positive control, lanes 4-6 contain the WT probe for the -123, -124 site (-132 to -110 bp) and lanes 7-9 contain the HPGH -123/-124T>C mutant probe. Lanes 1, 4 and 7 contain nuclear extracts from COS cells transfected with a pcDNA3 empty vector. Lanes 2-3, 5-6 and 8-9 contain nuclear extracts from COS cells overexpressing KLF1. Binding of KLF1 to the -123/-124T>C HPGH mutant probe can be observed in lane 8, with a super shift of KLF1 with an anti-KLF1 antibody in lane 9.