

# **Homo sapiens Duffy antigen/Receptor for chemokines (DARC) gene, DARC-Fya allele, partial cds**

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## **Abstract**

This sequence has a T to C point mutation at position -46 in the promoter region. Previous studies (Tournamille, C et al. Nature Genetics 10:224-228, 1995) have shown that this nucleotide change blocks Duffy (Fy) antigen expression in erythroid lineage cells and would therefore confer resistance to Plasmodium vivax infection in Africans and African Americans. Tournamille and others have shown that this mutation is consistently linked to the nucleotide sequence encoding the Fyb serological epitope (nucleotide 625A). The submitted sequence is the first report of FY - 46C linked to the nucleotide sequence encoding the Fya serological epitope (nucleotide 625G). At the time of this submission this allelic sequence has been observed in 23/523 study subjects who reside in a P. vivax endemic region (South Wosera, Papua New Guinea).