

Amplifikasi gen gag p7 (Nukleokapsid) human immunodeficiency virus type 1 (HIV-1) subtype CRF01_AE isolat Indonesia = Amplification of gag p7 gene (nucleocapsid) of human immunodeficiency virus type 1 (HIV-1) subtype CRF01_AE isolate Indonesia

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Abstrak

Acquired Immunodeficiency Syndrome disebabkan oleh infeksi Human Immunodeficiency Virus (HIV) terhadap sel-sel T CD4+, limfosit, dan makrofag. Sebanyak 90.7% penderita HIV di Indonesia terinfeksi oleh HIV-1 subtype CRF01_AE. Protein Gag P7 yang dikode oleh gen gag p7 dan terdapat di dalam genom HIV-1 merupakan protein yang dapat digunakan sebagai obat antiretrovirus dan kandidat antigen untuk sistem diagnostik. Penelitian bertujuan untuk memperoleh fragmen DNA gag p7 (nukleokapsid) HIV-1 yang berukuran 210 pb. Fragmen gen gag p7 diperoleh dari hasil Reverse Transcriptase Polymerase Chain Reaction (RT-PCR) dengan menggunakan primer forward AE_p7F dan primer reverse AE_p7R. Cetakan DNA (template) berasal dari RNA virus yang diambil dari serum pasien penderita HIV-1 di Indonesia. Hasil visualisasi pada gel poliakrilamida 10% menunjukkan bahwa fragmen gen gag p7 (nukleokapsid) berhasil teramplifikasi dengan ukuran 210 pb.

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Acquired immunodeficiency syndrome caused by human immunodeficiency virus infections to the CD4+ cells, lymphocyte, and macrophage. More than 90.7 % HIV patient in Indonesia were infected by HIV-1 subtype CRF01_AE. The Gag P7 protein coded by gag p7 gene which found in HIV genome was known as protein in which could be used for antiretroviral drugs (ARV) and diagnosis of HIV-1 infections. The purpose of research is to get DNA fragment of gag p7 (nucleocapsid) gene of HIV-1 which has length 210 bp. Fragment of gag p7 gene could be gotten from the process of reverse transcriptase polymerase chain reaction (RT-PCR) in which use primer forward AE_p7F and primer reverse AE_p7R. The templates is RNA virus that taken from patient's serum of HIV-1 in Indonesia. The electrophoresis visualization shown that fragment of gag p7 (nucleocapsid) gene was success amplified in which has length 210 bp.