

ABSTRACT

Disclosed is a vaccine antigen capable of inducing a cross-reacting and neutralizing antibody directed against a high-risk-type human papillomavirus. Specifically disclosed are: a chimeric protein comprising an L2-epitope of a human papillomavirus (HPV) type-16 inserted in a loop region of a human papillomavirus type-16 L1 protein; and a capsid which is an aggregate of the chimeric protein. The loop region to which the L2-epitope is to be inserted is located between an amino acid residue at position-430 and an amino acid residue at position-433. The L2-epitope has an amino acid sequence represented by any one of the following formulae: LYKTCKQAGTCPPDIIPKVEG (18-32 L2-epitope); GGLGIGTGSGTGGRTGYIPL (56-75 L2-epitope); and DPVGPLDPSIVSLVEESSFI (96-115 L2-epitope).