

ABSTRACT

The present invention refers to recombinant DNA molecules codifying fused peptides from different allergens from Blomia tropicalis and Dermatophagoides pteronyssinus having potential usefulness in prevention and treatment of allergies caused by domestic mites. Specifically, the invention discloses fusion proteins composed by different fragments of allergens Der p 1, Der p 2, Der p 7, Der p 8,Blo t 5, Blo t 8, Blo t 18, Blo t 12 and Blo t 13 with reduced serum IgE reactivity in allergic and non allergic individuals. It also discloses methods for production of these molecules in an expression system based on E. coli and purification. The invention refers also to effective and safe vaccines.

