**Cloning and Expression of antigenic ABAYE2132 Protein of *Acinetobacter baumannii* in E. coli**

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Among the various pathogenic bacteria causing nosocomial infections, *Acinetobacter baumannii* (*A. baumannii*) is the most common. *A. baumannii* is a gram negative and non- mobile coccobacilli, which causes severe infections in patients hospitalized in the hospital. Adherence to the host cell surface is the first and the most important stage of infection caused by *A. baumannii.* ABAYE2132, one of *A. baumannii* fimbrial proteins, is the most effective factor in cell adhesion and has been proposed as an appropriate candidate for vaccination against *A. baumannii* infection*.* In the present work, ABAYE2132 gene was cloned and expressed in E. coli for the first time. For this aim, at first the primers were designed according to the gene sequence and then the gene region fragment was amplified using PCR. The PCR product was finally cloned into the cloning (pTG19-T) and expression (PET26b) plasmids, respectively and the plasmids were inserted into E. coli. The protein expression in E. coli was induced with 1 mM IPTG. The SDS-PAGE results confirmed that the expression of the recombinant protein was successfully performed. Considering that ABAYE2132 is an antigenic protein and an appropriate candidate for production of the vaccine and also for rapid diagnostic tests of *A. baumannii,* theresults obtained from this work possess great importance.

**Keywords:** *Acinetobacter baumannii*, ABAYE2132 protein, Nosocomial infections, Recombinant protein, Vaccine.