

## عنوان مقاله:

Construction of an Expression Plasmid (Vector) Encoding *Brucella melitensis* Outer Membrane Protein, a Candidate for DNA Vaccine

## محل انتشار:

مجله گزارش های بیوشیمی و زیست شناسی مولکولی، دوره 1، شماره 2 (سال: 1392)

تعداد صفحات اصل مقاله: 5

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## خلاصه مقاله:

Background: DNA vaccination with plasmid encoding bacterial, viral, and parasitic immunogens has been shown to be an attractive method to induce efficient immune responses. Bacteria of the genus *Brucella* are facultative intracellular pathogens for which new and efficient vaccines are needed. Methods: To evaluate the use of a DNA immunization strategy for protection against brucellosis, a plasmid containing the DNA encoding the *Brucella melitensis* (B. melitensis) ۳۱ kDa outer membrane protein, as a potent immunogenic target, was constructed. Results: The constructed plasmid, pcDNA۳.۱+omp۳۱, was injected intramuscularly into mice and the expression of omp۳۱ RNA was assessed by RT-PCR. The integrity of the pcDNA۳.۱+omp۳۱ construct was confirmed with restriction analysis and sequencing. Omp۳۱ mRNA expression was verified by RT-PCR. Conclusion: Our results indicate that the .pcDNA۳.۱+omp۳۱ eukaryotic expression vector expresses omp۳۱ mRNA and could be useful as a vaccine candidate

## کلمات کلیدی:

*Brucella melitensis*, DNA Vaccine, Omp۳۱, PcDNA۳.۱

## لینک ثابت مقاله در پایگاه سیویلیکا:

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