

**Technology:** [Proteins with repetitive bacterial-Ig-like \(BIG\) domains present in Leptospira species](#)

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The VA jointly owns this patent with the Regents of the University of California, Cornell Research Foundation Inc. and Fundacao Oswaldo Cruz

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**Abstract:** The invention relates to three isolated DNA molecules that encode for proteins, BigL1, BigL2 and BigL3, in the Leptospira sp bacterium which have repetitive Bacterial-Ig-like (Big) domains and their use in diagnostic, therapeutic and vaccine applications. According to the present invention, the isolated molecules encoding for BigL1, BigL2 and BigL3 proteins are used for the diagnosis and prevention of infection with Leptospira species that are capable of producing disease in humans and other mammals, including those of veterinary importance.