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(54) **XENORHABDUS SP. GENOME SEQUENCES AND USES THEREOF**

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(57) **ABSTRACT**

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**Related U.S. Application Data**

(63) Continuation-in-part of application No. 12/385,507, filed on Apr. 9, 2009, which is a continuation of application No. 12/289,606, filed on Oct. 30, 2008, now abandoned, which is a continuation of application No. 09/897,516, filed on Jun. 29, 2001, now abandoned.

The present invention relates to a nucleic acid sequence from *Xenorhabdus* that encodes a GroEL protein. The invention encompasses nucleic acid molecules present in non-coding regions as well as nucleic acid molecules that encode proteins, fragments of proteins, tRNA's, fragments of tRNA's, rRNA's and fragments of rRNA's. In addition, proteins and fragments of proteins so encoded and antibodies capable of binding the proteins are encompassed by the present invention. The invention also relates to methods of using the disclosed nucleic acid molecules, proteins, fragments of proteins, RNA's, and antibodies, for example, for gene identification and analysis, and preparation of constructs.

(60) Provisional application No. 60/215,161, filed on Jun. 30, 2000.