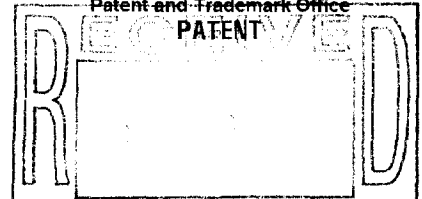


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This instrument confers to the United States Government, as represented by the Department of Health and Human Services, a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced on its behalf throughout the world the following subject invention:

**TSRI No.:** 643.0/98-027

**Invention Title:** Modified DNA Enzymes That Cleave RNA and DNA

**Inventors:** Gerald Joyce, Steve Santoro, Carlos Barbas

**Patent Application**

**Serial No.:** 09/262,142

**Filing Date:** 03/03/99

**Title:** Enzymatic DNA Molecules That Contain Modified Nucleotides

**Country, if other  
than United States:**

This subject invention was conceived or first actually reduced to practice in performance of a government-funded project, National Institutes of Health Grant No. CA 27489.

Principal rights to this subject invention have been left with the Licensor: **THE SCRIPPS RESEARCH INSTITUTE**, subject to the provisions of 37 CFR 401 and 45 CFR 8.

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Arnold LaGuardia  
Senior Vice President  
The Scripps Research Institute

Date: 6/23/99