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Moya Kinnealey
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4-23-01

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<p>1. Names of all conveying parties:</p> <p>Teruo Akuta Haruhiko Yokoi Hajime Okuyama Katsuo Takeda Mamoru Hasegawa Mahito Nakanishi</p> <p>Additional names attached: NO</p>	<p>2. Names and addresses of all receiving parties:</p> <p>APR 23 2001</p> <p>DNAVEC RESEARCH INC. 25-11, Kannondai 1-chome, Tsukuba-shi, Ibaraki 305-0856 JAPAN</p> <p>Additional names/addresses attached: NO</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: _____</p> <p>Execution Date: March 10, 2001; March 14, 2001; March 15, 2001; March 19, 2001; March 23, 2001; and March 25, 2001</p>	
<p>4. Application numbers or patent numbers:</p> <p>A. Patent Application Numbers: 09/720,003</p>	<p>B. Patent Numbers:</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Paul T. Clark, Reg. No. 30,162 Clark & Elbing LLP 176 Federal Street Boston, MA 02110 Customer No.: 21559</p>	<p>6. Total number of applications/patents involved: 1</p> <p>7. Total fee (37 C.F.R. § 3.41): \$40.00 <input checked="" type="checkbox"/> Fee enclosed <input type="checkbox"/> Authorized to charge deposit account</p> <p>8. Deposit account number: 03-2095. If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to Deposit Account No. 03-2095.</p>

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9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

James De Camp James De Camp Reg. 43,580 18 April 2001
Paul T. Clark Signature Date

ASSIGNMENT

For valuable consideration, we,

Full Name of Assignor	City	State (and Country if not USA)
Teruo Akuta	Kumamoto-shi	Kumamoto, Japan
Haruhiko Yokoi	Machida-shi	Tokyo, Japan
Hajime Okuyama	Nishinomiya-shi	Hyogo, Japan
Eiko Takeda (legal representative for Katsuo Takeda)	Toshima-ku	Tokyo, Japan
Mamoru Hasegawa	Tsukuba-shi	Ibaraki, Japan
Mahito Nakanishi	Suita-shi	Osaka, Japan

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
DNAVEC RESEARCH INC.	IBARAKI	25-11, Kannondai 1-chome, Tsukuba-shi, Ibaraki 305-0856 JAPAN

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Title of Application	Filing Date	Serial Number
NUCLEIC ACID TRANSFER PHAGE	December 18, 2000	09/720,003

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.



March 10, 2001
Date

Teruo Akuta
Teruo Akuta

Rika Akuta
Witness

March 14, 2001
Date

Haruhiko Yokoi
Haruhiko Yokoi

Tatsuya Shinoda
Witness

March 15, 2001
Date

Hajime Okuyama
Hajime Okuyama

Hirotsugu Hayashi
Witness

March 25th 2001
Date

Eiko Takeda
Eiko Takeda
(Legal Representative for Katsuo Takeda--deceased)

Minoru Okuyama
Witness

28 March, 2001
Date

Mamoru Hasegawa
Mamoru Hasegawa

Minoru Okuyama
Witness

March 19, 2001
Date

Mahito Nakanishi
Mahito Nakanishi

Jun Okabe
Witness