

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Hiroaki Kinoh</td><td>02/01/2005</td></tr><tr><td>Makoto Inoue</td><td>02/01/2005</td></tr><tr><td>Yasuji Ueda</td><td>02/16/2005</td></tr><tr><td>Akihiro Iida</td><td>02/14/2005</td></tr><tr><td>Mamoru Hasegawa</td><td>02/01/2005</td></tr><tr><td>Masanori Kobayashi</td><td>03/02/2005</td></tr></tbody></table>	Name	Execution Date	Hiroaki Kinoh	02/01/2005	Makoto Inoue	02/01/2005	Yasuji Ueda	02/16/2005	Akihiro Iida	02/14/2005	Mamoru Hasegawa	02/01/2005	Masanori Kobayashi	03/02/2005	
Name	Execution Date														
Hiroaki Kinoh	02/01/2005														
Makoto Inoue	02/01/2005														
Yasuji Ueda	02/16/2005														
Akihiro Iida	02/14/2005														
Mamoru Hasegawa	02/01/2005														
Masanori Kobayashi	03/02/2005														
RECEIVING PARTY DATA															
Name:	DNAVEC Research, Inc.														
Street Address:	25-11, Kannondai 1-chome														
City:	Tsukuba-shi, Ibaraki														
State/Country:	JAPAN														
Postal Code:	305-0856														
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12140715</td></tr></tbody></table>	Property Type	Number	Application Number:	12140715											
Property Type	Number														
Application Number:	12140715														
CORRESPONDENCE DATA															
Fax Number:	(617)428-7045														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	617-428-0200														
Email:	patentadministrator@clarkelbing.com														
Correspondent Name:	James D. DeCamp, Ph.D.														
Address Line 1:	Clark & Elbing LLP														
Address Line 2:	101 Federal Street, 15th Floor														
Address Line 4:	Boston, MASSACHUSETTS 02110														
ATTORNEY DOCKET NUMBER:	50026/047002														

CH \$40.00 12140715

500570830

PATENT
REEL: 021119 FRAME: 0045

NAME OF SUBMITTER:

Jan N. Tittel, Ph.D.

Total Attachments: 4

source=50304_047002_Assignment#page1.tif

source=50304_047002_Assignment#page2.tif

source=50304_047002_Assignment#page3.tif

source=50304_047002_Assignment#page4.tif

ASSIGNMENT

For valuable consideration, we,

Full Name of Assignor	City	State (and Country if not USA)
Hiroaki Kinoh	Tsukuba-shi	Ibaraki, Japan
Makoto Inoue	Tsukuba-shi	Ibaraki, Japan
Yasuji Ueda	Tsukuba-shi	Ibaraki, Japan
Akihiro Iida	Tsukuba-shi	Ibaraki, Japan
Mamoru Hasegawa	Tsukuba-shi	Ibaraki, Japan
Masanori Kobayashi	Koka-gun	Shiga, 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
VECTORS WITH MODIFIED PROTEASE-DEPENDENT TROPISM	October 29, 2004	10/513,094

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.

IN WITNESS WHEREOF, I hereto set my hand and seal at Ibaraki, Japan
this 1st day of February, 2005.

Hiroaki Kinoh L.S.
HIROAKI KINOH

K. Mitomo
WITNESS #1

Katsuyuki Mitomo
PRINTED NAME

J. Iwashita
WITNESS #2

Tamae Iwashita
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Ibaraki, Japan
this 1st day of February, 2005.

Makoto Inoue L.S.
MAKOTO INOUE

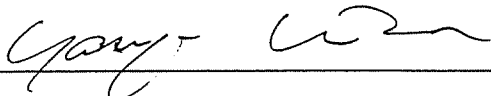
K. Mitomo
WITNESS #1

Katsuyuki Mitomo
PRINTED NAME

J. Iwashita
WITNESS #2

Tamae Iwashita
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Chiba, Japan,
this 16th day of February, 2005.

 L.S.
YASUJI UEDA

Akinao Matsunaga
WITNESS #1

Akinao Matsunaga
PRINTED NAME

Tomonori Kato
WITNESS #2

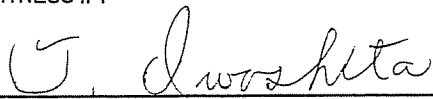
Tomonori Kato
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Ibaraki, Japan,
this 17th day of February, 2005.

 L.S.
AKIHIRO IIDA

Hiroshi Ban
WITNESS #1

Hiroshi Ban
PRINTED NAME


WITNESS #2

Tamae Iwashita
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Ibaraki, Japan

this 1st day of February, 2005.

Mamoru Hasegawa L.S.
MAMORU HASEGAWA

K. Mitomo
WITNESS #1

Katsuyuki Mitomo
PRINTED NAME

J. Iwashita
WITNESS #2

Tamae Iwashita
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Osaka, Japan

this 2nd day of March, 2005.

Masanori Kobayashi L.S.
MASANORI KOBAYASHI

Makoto Kodama
WITNESS #1

MAKOTO KODAMA
PRINTED NAME

Koichiro Nakahara
WITNESS #2

Koichiro Nakahara
PRINTED NAME