





TO THE HONOI

03-11-2002



Attorney Docket Number 7853-226-999

102009285

FRADEMARKS

Washington, DC 20231				
Please record the attached original documents or copy thereof.				
Name of conveying party(ies):	2. Name and address of receiving party(ies):			
Douglas A. Holtzman John D. Sharp Kevin R. Leiby Steven Bossone Yang Pan Christopher C. Fraser Nicholas Wright Paul S. Myers Gillian Kingsbury Additional name(s) of conveying party(ies) attached? □ Yes № №	Name: Millennium Pharmaceuticals, Inc. Address: 75 Sidney Street Cambridge, Massachusetts 02139 Country (if other than USA):			
3. Nature of conveyance:				
 ✓ Assignment ✓ Merger ✓ Security Agreement ✓ Change of Name 				
□ Other				
Execution Date: October 24, 2001 October 29, 2001 October 24, 2001 October 29, 2001 October 24, 2001 October 30, 2001 October 22, 2001 October 30, 2001 November 16, 2001 November 16, 2001, respectively				
4. Application number(s) or patent number(s):				
If this document is being filed together with a new application, the execution	n date of the application is:			
A. Patent Application No.(s) 09/796,858 filed March 1, 2001 B. Patent No.(s)				
	tached? □ Yes ■ No			
Name and address of party to whom correspondence concerning document should be mailed:	6. Number of applications and patents involved: One			
PENNIE & EDMONDS LLP 1155 Avenue of Americas New York, N.Y. 10036-2711 7. Total fee (37 CFR 3.41):\$ 40.00 Please charge to the deposit account listed in Section 8.				
	8. Deposit account number: 16-1150			
DO NOT USE THIS SPACE				
9. Statement and signature.				
To the best of my knowledge and belief, the foregoing information is tradocument.	ue and correct and any attached copy is a true copy of the original			
Laura A. Coruzzi 30,742 February 22, 2002 Name of Person Signing Reg. No. Signature Date				
\ Molows C	s (including cover sheet with duplicate): 42			
Mail documents to be recorded with	required cover sheet information to:			

03/08/2002 GTON11 01 FC:581

00000142 161150 40.00 CH

09796858 Commissioner of Patents & Trademarks, Box Assignment
Washington, D.C. 20231

PATENT

NY2 - 1284886.1

REEL: 012638 FRAME: 0572

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 17 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are inventors of the inventors of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are inventors of the inventors of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), PREVENTIVE inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States

which is executed on \Box even date herewith or \Box

which is identified by Pennie & Edmonds LLP docket no. 7853-226-999 which was filed on March 1, 2001, Application No. 09/796,858

and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSÍGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

L.S.

State of Massachuse HS

County of middlessex) SS.:

On CCI 24, 2001, before me, Sincine Collins (Notary Public, personally appeared DOUGLAS A. HOLTZMAN, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

My Commission expires: 9/1/2006

Date	, 2001		L.S.
		JOHN D. SHARP	
State of)) SS.:		
County of)		
personally appeared name is subscribed t	JOHN D. SHARP, per to the within instrument	and acknowledged to me that he	, Notary Public, is of satisfactory evidence to be the person whose executed the same in his authorized capacity, and f which the person acted, executed the instrument.
WITNESS	my hand and official so	eal	
Date	, 2001	KEVIN R. LEIBY	L.S.
State of)			
County of) SS.:		
personally appeared name is subscribed t that by his signature	KEVIN R. LEIBY, pe o the within instrument	and acknowledged to me that he erson, or the entity upon behalf of	, Notary Public, is of satisfactory evidence to be the person whose executed the same in his authorized capacity, and f which the person acted, executed the instrument.
Date		STEVEN BOSSONE	L.S.
State of) County of) SS.:		
whose name is subs	scribed to the within in	strument and acknowledged to	, Notary Public, e basis of satisfactory evidence to be the person me that he executed the same in his authorized upon behalf of which the person acted, executed
WITNESS	my hand and official se	eal	

Date		_, 2001	YANG PAN	L.S.
Date		_, 2001	Witnessed by	
Date		_, 2001	Witnessed by	
Date		_, 2001	THOMAS M. BARNES	L.S.
State of) County of) SS.:			
personally appeared I whose name is subsc capacity, and that by I the instrument.	THOMAS M. ribed to the w	BARNE vithin ins n the ins	efore me,	atisfactory evidence to be the person executed the same in his authorized
Date		, 2001	CHRISTOPHER C. FRASER	L.S.
State of) County of) SS.:			
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State of)				
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WIT	NESS my hand and o	fficial seal			
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WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States
 □ which is executed on □ even date herewith or □ which is identified by Pennie & Edmonds LLP docket no. 7853-226-999 which was filed on March 1, 2001, Application No. 09/796,858
and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.
AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.
Date, 2001L.S
State of) County of) SS.:
On
WITNESS my hand and official seal

Date Oct. 74, 7001, 2001 John D. Shyp L.S.
State of Massychusetts County of Madalian, SS.:
On <u>Ccl</u> 24 , 2001, before me, <u>Simonne</u> <u>ORRIVEGU</u> , Notary Public, personally appeared JOHN D. SHARP , personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal
My Commission expires: 9/1/2000
Date, 2001
State of)
County of) SS.:
On, 2001, before me,, Notary Public, personally appeared KEVIN R. LEIBY , personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal
Date, 2001L.S
State of)
County of SS.:
On, 2001, before me,, Notary Public, personally appeared STEVEN BOSSONE, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal

Date		, 2001	YANG PAN
Date	·····	, 2001	Witnessed by
Date		, 2001	Witnessed by
Date	····	, 2001	THOMAS M. BARNES
State of) County of) SS.:		
whose name is subscrib	ed to the w	ithin ins	perfore me,
WITNESS my	hand and of	ficial se	eal
Date		, 2001	L.S
State of) County of) SS.:		CHRISTOPHER C. FRASER
On personally appeared CF person whose name is su	bscribed to t	E R C. F he withi	refore me,, Notary Public FRASER, personally known to me on the basis of satisfactory evidence to be the in instrument and acknowledged to me that he executed the same in his authorized strument the person, or the entity upon behalf of which the person acted, executed
WITNESS my	hand and of	ficial se	eal

PATEN 12 - 1249825.1
REEL: 012638 FRAME: 0579

Date	, 2001 NI	CHOLAS WRIGHTON	L.S.
State of)) 5C .		
County of) SS.:)		
whose name is subscri	bed to the within instrun	me, N, personally known to me on the basis of ment and acknowledged to me that he ment the person, or the entity upon behal	executed the same in his authorized
WITNESS my	hand and official seal		
Date	, 2001		L.S.
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State of) County of) SS.:		
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WITNESS my	hand and official seal		
			
Date	, 2001 G I	LLIAN KINGSBURY	L.S.
State of)) SS.:		
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WITNESS my	hand and official seal		

PATENT_{2-1249825.1}
REEL: 012638 FRAME: 0580

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135 th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States
 □ which is executed on □ even date herewith or □ □ which is identified by Pennie & Edmonds LLP docket no. 7853-226-999 □ which was filed on March 1, 2001, Application No. 09/796,858
and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.
AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.
Date, 2001L.S
State of) County of) SS.:
On
WITNESS my hand and official seal

Date	, 2001	L
	JOHN D. SHARP	
State of)		
County of	SS.:	
•	2001 hefore me	Notary Pub
name is subscribed to the wit	thin instrument and acknowledged to me	, Notary Pub n the basis of satisfactory evidence to be the person who e that he executed the same in his authorized capacity, a behalf of which the person acted, executed the instrume
WITNESS my hand	d and official seal	
Date 10 - 24	, 2001 KEVIN R. LEIBY	P. Leigh
State of Massacking	e les	
State of Maszackina County of Maik sey	SS.:	
on little ail	2001 hafamana 15 manar	ne Cerriveau , Notary Publ
personally appeared KEVIN name is subscribed to the wit	R. LEIBY, personally known to me or him instrument and acknowledged to me	n the basis of satisfactory evidence to be the person who e that he executed the same in his authorized capacity, a behalf of which the person acted, executed the instrume
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Simonne G	unice.	
My Commission	expires: 9/1/2000	
Date	, 2001 <u>STEVEN BOSSONE</u>	L
	STEVEN BOSSONE	ı
State of)	30	
County of)	SS.:	
On	, 2001, before me,	, Notary Publ ne on the basis of satisfactory evidence to be the pers
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WITNESS my hand	l and official seal	

Date	_, 2001	YANG PAN L.S.
		IANGIAN
Date	_, 2001	
		Witnessed by
Date	_, 2001	Witnessed by
Date	_, 2001	L.S.
		THOMAS M. BARNES
State of)		
County of) SS.:		
•	. 2001. be	efore me,, Notary Public,
personally appeared THOMAS M.	BARNE	S, personally known to me on the basis of satisfactory evidence to be the person
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the instrument.		numeric me person, or the entiry apon contain or winon the person december, encoured
WITNESS my hand and o	fficial se	ral
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Date	_, 2001	CHRISTOPHER C. FRASER
State of)		
County of SS.:		
On,	2001, be	efore me,, Notary Public, RASER, personally known to me on the basis of satisfactory evidence to be the
		n instrument and acknowledged to me that he executed the same in his authorized trument the person, or the entity upon behalf of which the person acted, executed
the instrument.		
WITNESS my hand and o	fficial se	al

PATENT_{2-1249825.1} REEL: 012638 FRAME: 0583

Date	, 2001	WOWA LO WINGOW	L.S.
		NICHOLAS WRIGHTON	
State of)			
County of) SS.:		
•	2001 hef	ore me	, Notary Public,
vhose name is subscri	bed to the within in:	fore me, TON, personally known to me on the basis of satisfa strument and acknowledged to me that he execut trument the person, or the entity upon behalf of wh	ed the same in his authorized
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Date	. 2001		L.S.
Jate	, 2001	PAUL S. MYERS	
State of) County of) SS.:		
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personally appeared PA name is subscribed to th	AUL S. MYERS, per le within instrument a	sonally known to me on the basis of satisfactory event acknowledged to me that he executed the same rson, or the entity upon behalf of which the person a	vidence to be the person whose in his authorized capacity, and
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he instrument.			
WITNESS my	hand and official se	ral	

PATENT2 - 1249825.1
REEL: 012638 FRAME: 0584

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica
Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin
R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the
United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China,
residing 5308 135 th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2,
Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA
02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S.
Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian
Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGŃORS, are the
inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE,
THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States

	which is executed on		even date herewith or	
\boxtimes	which is identified by	Pen	nie & Edmonds LLP docket i	io. 7853-226-999

which was filed on March 1, 2001, Application No. 09/796,858

and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date		, 2001	DOUGLAS A.	HOLTZMAN		L.S.
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County	of) 55				
person capacit	whose na	me is subscribed to the with	nin instrument and	acknowledged to	me that he execu	, Notary Public, attisfactory evidence to be the ted the same in his authorized the person acted, executed
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Date	, 2001	JOHN D. SHARP	L.S.
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County of) SS.:		
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Date	, 2001	KEVIN R. LEIBY	L.S.
		REVIN K. LEIDI	
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name is subscribed to the that by his signature on	ne within instrument a	rsonally known to me on the basis of satisfact and acknowledged to me that he executed the rson, or the entity upon behalf of which the pe al	same in his authorized capacity, and
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Date	, 2001	YANG PAN	L.S.
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Date	, 2001	THOMAS M. BARNES	L.S.
State of) County of) SS.:		
personally appeared T whose name is subscr capacity, and that by h the instrument.	HOMAS M. BARNE ibed to the within ins	efore me, S, personally known to me on the basis of trument and acknowledged to me that he trument the person, or the entity upon behal	f satisfactory evidence to be the person the executed the same in his authorized
Date	, 2001	CHRISTOPHER C. FRASER	L.S.
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		NICHOI	AS WRIGHTON		
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		PAUL S.	MYERS		
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WITN	ESS my hand and o	fficial seal			

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States

	which is executed on	□ even date herewith or □	
120	which is identified by Pa	ennie & Edmonds un docket i	7853-226-000

Which is identified by Pennie & Edmonds LLP docket no. 7853-228
 Which was filed on March 1, 2001, Application No. 09/796,858

and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date		, 2001	Y A TIOT TOWN AND	L.S.
		DOUGLAS	S A. HOLTZMAN	
State of)) SS.:			
County of) SS .:			
On personally a person whose capacity, an the instrument	d that by his signature	, 2001, before me, A. HOLTZMAN, pers to the within instrument e on the instrument the p	sonally known to me on the ba and acknowledged to me that h erson, or the entity upon behal	, Notary Public, sis of satisfactory evidence to be the e executed the same in his authorized f of which the person acted, executed
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Date	_, 2001	L.S.
	JOHN D. SHARP	
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name is subscribed to the within ins	ARP, personally known to me on the basis of satisfactory evident trument and acknowledged to me that he executed the same in he cent the person, or the entity upon behalf of which the person acted	is authorized capacity, and
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	KEVIN R. LEIBY	
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that by his signature on the instrume	ent the person, or the entity upon behalf of which the person acted	i, executed the instrument.
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Date	_, 2001 STEVEN BOSSONE	L.S.
	STEVEN BOSSONE	
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Date 11/16/07	_, 2001	Witnessed by
Date <u>[] </u>	_, 2001	$\mathcal{W} = \mathcal{G} \cdot \mathcal{Z}$ Witnessed by
Date	_, 2001	THOMAS M. BARNES
State of) County of) SS.:		
whose name is subscribed to the w	vithin ins n the ins	cS, personally known to me on the basis of satisfactory evidence to be the person strument and acknowledged to me that he executed the same in his authorized trument the person, or the entity upon behalf of which the person acted, executed al
Date	_, 2001	CHRISTOPHER C. FRASER
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Date	, 2001	NICHOLAS WRIGHTON	L.S.
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		PAUL S. MYERS	
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personally appeared P name is subscribed to t	AUL S. MYERS, per the within instrument	rsonally known to me on the basis of satisfactory evand acknowledged to me that he executed the same rson, or the entity upon behalf of which the person a	ridence to be the person whose in his authorized capacity, and
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Date	, 2001	GILLIAN KINGSBURY	L.S.
State of)			
County of) SS.:		
whose name is subscr	ibed to the within ins	efore me,	ed the same in her authorized
WITNESS m	y hand and official so	eal	
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WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, 120th Boston; MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States	7.5. 10/26/01
 □ which is executed on □ even date herewith or □ □ which is identified by Pennie & Edmonds LLP docket no. 7853-226-999 □ which was filed on March 1, 2001, Application No. 09/796,858 	
and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:	
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;	
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.	
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.	
AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.	
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.	
Date, 2001L.S	
State of) SS.:	
County of)	
On	
WITNESS my hand and official seal	

Date	, 2001 JO	HN D. SHARP	L.S.
State of) County of	} SS.:		
name is subscribed to that by his signature of	the within instrument and a	icknowledged to me that he ex	, Notary Public, of satisfactory evidence to be the person whose secuted the same in his authorized capacity, and which the person acted, executed the instrument.
Date	, 2001 KE	VIN R. LEIBY	L.S.
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name is subscribed to that by his signature o	the within instrument and a	cknowledged to me that he ex	, Notary Public, of satisfactory evidence to be the person whose secuted the same in his authorized capacity, and which the person acted, executed the instrument.
Date	, 2001 STI	EVEN BOSSONE	L.S.
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County of) SS.:		
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Date	, 2001	YANG PAN	L.S.
Date	, 2001	Witnessed by	
Date	_, 2001	Witnessed by	
Date	, 2001	THOMAS M. BARNES	L.S.
State of Messachusetts County of Maddecese) SS.:			
On Ochber 39, personally appeared THOMAS M. whose name is subscribed to the w	BARNI ithin in	efore me, Simonse Coekiveau ES, personally known to me on the basis of satisfactory evidence strument and acknowledged to me that he executed the same trument the person, or the entity upon behalf of which the person	e to be the person in his authorized
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Date	, 2001	CHRISTOPHER C. FRASER	L.S.
State of) County of) SS.:			
personally appeared CHRISTOPH person whose name is subscribed to t	ER C. F he withi	efore me, CRASER, personally known to me on the basis of satisfactory e in instrument and acknowledged to me that he executed the same trument the person, or the entity upon behalf of which the person	vidence to be the in his authorized
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Date	, 2001	NICHOLAS WRIGHTON	L.S.
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vhose name is subscrib	ed to the within in	strument and acknowledged to	, Notary Public, on the basis of satisfactory evidence to be the person to me that he executed the same in his authorized ity upon behalf of which the person acted, executed
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		PAUL S. MYERS	
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ASSIGNMENT Chis for Cet 29, 200,

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Crastiand Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States

\Box	which is executed on \Box even date herewith or \Box
×	which is identified by Pennie & Edmonds LLP docket no. 7853-226-999

which was filed on March 1, 2001, Application No. 09/796,858

and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date, 200	1 DOUGLAS A. HOLTZMAN	L.S.
State of) County of) SS.:		
On	LTZMAN, personally known to me on the basis of satisfactory evidenthin instrument and acknowledged to me that he executed the same in hinstrument the person, or the entity upon behalf of which the person act	otary Public, nce to be the his authorized ted, executed
WITNESS my hand and official	seal	

Date	, 2001 JOHN D	. SHARP	L.S.
State of) County of) SS.:		
personally appeared JO name is subscribed to the	e within instrument and acknow	own to me on the basis of satisfactory evide yledged to me that he executed the same in l entity upon behalf of which the person acte	his authorized capacity, and
WITNESS my	hand and official seal		
Date	, 2001 <u>KEVIN</u> 1	R. LEIBY	L.S.
State of) County of) SS.:		
personally appeared KE name is subscribed to the	VIN R. LEIBY, personally kn e within instrument and acknow	own to me on the basis of satisfactory evidence when to me that he executed the same in hentity upon behalf of which the person acte	his authorized capacity, and
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Date	, 2001 STEVEN	BOSSONE	L.S.
State of) County of) SS.:		
whose name is subscrib	ped to the within instrument as	whown to me on the basis of satisfactory and acknowledged to me that he executed expersion, or the entity upon behalf of which	the same in his authorized
	hand and official seal		

Date	, 2001	YANG PAN L.S.
Date	, 2001	
	 -	Witnessed by
Date	, 2001	Witnessed by
Date	, 2001	L.S. THOMAS M. BARNES
State of)		
County of) SS.:		
personally appeared THOMAS Methods name is subscribed to the	I. BARNI within in	efore me,
WITNESS my hand and		
Date_ Oct of 29, 200	·[, 2001	CHRISTOPHER C. FRASER L.S.
State of Massychusetts County of Middlesely SS.:		
On Oct 39 personally appeared CHRISTOP person whose name is subscribed to	o the withi	efore me, Since CORRIVERY, Notary Public, FRASER, personally known to me on the basis of satisfactory evidence to be the in instrument and acknowledged to me that he executed the same in his authorized trument the person, or the entity upon behalf of which the person acted, executed
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My Commission e	ypires	1.9/1/2000

Date	, 2001 <u>NICHOLAS '</u>	WRIGHTON	L.S.
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whose name is subscribed to t	the within instrument and ac	known to me on the basis of satisfacknowledged to me that he executes on, or the entity upon behalf of wh	ted the same in his authorized
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	PAUL S. MY	ERS	
State of) County of) SS	S.:		
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Date	, 2001 GILLIAN KI	NGSBURY	L.S.
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WITNESS my hand a	nd official seal		

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135 th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States
□ which is executed on □ even date herewith or □ which is identified by Pennie & Edmonds LLP docket no. 7853-226-999 which was filed on March 1, 2001, Application No. 09/796,858
and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.
AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.
Date, 2001L.S
State of) County of) SS.:
On

PATENT REEL: 012638 FRAME: 20801

WITNESS my hand and official seal

Date	, 20	01	L.S.
		JOHN D. SHARP	
State of)			
County of) SS.:		
•	200	il hafara ma	Notary Public
personally appeared J name is subscribed to	IOHN D. SHARP the within instrum	ent and acknowledged to me that he	sis of satisfactory evidence to be the person whose e executed the same in his authorized capacity, and
hat by his signature o	n the instrument th	e person, or the entity upon behalf	of which the person acted, executed the instrument.
WITNESS n	ny hand and offici	al seal	
			
Date	, 20		L.S.
		KEVIN R. LEIBY	
State of)			
•) SS.:		
County of)		
personally appeared I name is subscribed to	EVIN R. LEIBY the within instrum	ent and acknowledged to me that he	, Notary Public, sis of satisfactory evidence to be the person whose e executed the same in his authorized capacity, and of which the person acted, executed the instrument.
	ny hand and offici	-	•
Date	, 20	01 STEVEN BOSSONE	L.S.
		STEVEN BOSSONE	
State of)			
County of) SS.:)		
On	, 2001	before me,	, Notary Public,
whose name is subsc	ribed to the withi	n instrument and acknowledged to	the basis of satisfactory evidence to be the person or me that he executed the same in his authorized by upon behalf of which the person acted, executed
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Date	, 2001	Witnessed by	
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Date	, 2001	Witnessed by	
Date	2001		L.S.
Date	, 2001	THOMAS M. BARNES	
State of)			
County of) SS.:		
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personally appeared THO	, 2001, be MAS M. BARNE	efore me,	, Notary Public,
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		rument the person, or the entity upon behalf	
the instrument.			
WITNESS my h	and and official se	al	
Date	, 2001	CHRISTOPHER C. FRASER	L.S.
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County of)		
On	, 2001, be	efore me,	, Notary Public,
		RASER, personally known to me on the bas n instrument and acknowledged to me that he	
capacity, and that by his si		rument the person, or the entity upon behalf	
the instrument.			
WITNESS my h	and and official sea	al	

Date 10 30 01, 2001 Micholas WRIGHTON L.S.
State of Mass.) County of Neetoth.) SS.:
On <u>part 30</u> , 2001, before me, <u>Nicholas weight fon</u> , Notary Public, personally appeared NICHOLAS WRIGHTON, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal
Sine In Bright
Date, 2001L.S
FAUL S. WITERS
State of) County of) SS.:
On
WITNESS my hand and official seal
Date, 2001L.S.
State of) SS.:
County of) SS
On
WITNESS my hand and official seal

WHEREAS, WE, **Douglas A. Holtzman** (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); **John D. Sharp** (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); **Kevin R. Leiby** (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); **Steven Bossone** (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); **Yang Pan** (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); **Thomas M. Barnes** (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); **Christopher C. Fraser** (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); **Nicholas Wrighton** (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); **Paul S. Myers** (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and **Gillian Kingsbury** (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in **NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES** for which we have executed an application for a Patent of the United States

	which is executed on even date herewith or
\boxtimes	which is identified by Pennie & Edmonds LLP docket no. 7853-226-999
\boxtimes	which was filed on March 1, 2001, Application No. 09/796,858

and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date	, 2001 DOUGLAS A. HOLTZMAN	L.S.
State of) County of)	SS.:	
nerson whose name is subscri	, 2001, before me, LAS A. HOLTZMAN, personally known to me of the distribution of the within instrument and acknowledged to rature on the instrument the person, or the entity upon	ne that he executed the same in his authorized.
WITNESS my hand	l and official seal	

Date	, 2001	YOUNG CHAIN	L.S.
		JOHN D. SHARP	
Ch. A. C.			
State of)) SS.:		
County of)		
On	, 2001, t	efore me,	, Notary Public,
name is subscribed to th	HN D. SHARP, pe e within instrument	sonally known to me on the basis of satisfact and acknowledged to me that he executed th	ctory evidence to be the person whose
that by his signature on t	he instrument the pe	rson, or the entity upon behalf of which the	person acted, executed the instrument.
WITNESS my	hand and official so	eal	
			
Date	, 2001		
Datc	, 2001	KEVIN R. LEIBY	L.S.
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County of)		
On	, 2001, b	efore me,	, Notary Public,
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	, 2001	STEVEN BOSSONE	L.S.
State of)) SS.:		
County of)		
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whose name is subscribe	ed to the within ins	trument and acknowledged to me that he	executed the same in his authorized
capacity, and that by his the instrument.	signature on the inst	rument the person, or the entity upon behalf	or which the person acted, executed
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Date	<u></u>	, 2001	YANG PAN	L.S.
Date		, 2001		
		,	Witnessed by	
Date		, 2001	Witnessed by	
Date		, 2001	THOMAS M. BARNES	L.S.
State of)) SS.:			
County of)			
	s signature or	the ins	strument and acknowledged to me that he executed the strument the person, or the entity upon behalf of which the peal	
Date		, 2001	CHRISTOPHER C. FRASER	L.S.
State of)				
County of) SS.:)			
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Date	, 2001		L.S.
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WITNESS my hand	l and official seal		
			
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WITNESS my hand	and official seal		
Jone Mr. Se	ige		
Date	, 2001 GI	LLIAN KINGSBURY	L.S.
State of)			
County of)	SS.:		
On	, 2001, before	e me,	, Notary Public,
whose name is subscribed to	the within instrum	personally known to me on the basis of the tent and acknowledged to me that she then the person, or the entity upon behalf	executed the same in her authorized
WITNESS my hand	and official seal		
			

WHEREAS, WE, Douglas A. Holtzman (a citizen of the United States, residing at 821 Centre Street, #6, Jamaica Plain, MA 02130); John D. Sharp (a citizen of the United States, residing at 245 Park Avenue, Arlington, MA 02476); Kevin R. Leiby (a citizen of the United States, residing at 4 Showhegan Way, Natick, MA 01760); Steven Bossone (a citizen of the United States, residing at 91 Bacon Street, Winchester, MA 01890); Yang Pan (a citizen of the People's Republic of China, residing 5308 135th Place SE, Bellevue, WA 98006); Thomas M. Barnes (a citizen of Australia, residing at 22 Hanson St. #2, Boston, MA 02118); Christopher C. Fraser (a citizen of the United States, residing at 52 Grassland Street, Lexington, MA 02421); Nicholas Wrighton (a citizen of the United Kingdom, residing at 18 Lloyd Street, Winchester, MA 01890); Paul S. Myers (a citizen of the United States, residing at 171 South Street, Unit 17A, Jamaica Plain, MA 02130); and Gillian Kingsbury (a citizen of the United Kingdom, residing at 23 Fletcher Street, Roslindale, MA 02131), ASSIGNORS, are the inventors of the invention in NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES for which we have executed an application for a Patent of the United States
 □ which is executed on □ even date herewith or □ □ which is identified by Pennie & Edmonds LLP docket no. 7853-226-999 □ which was filed on March 1, 2001, Application No. 09/796,858
and WHEREAS, Millennium Pharmaceuticals, Inc., ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.
AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.
AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.
Date, 2001L.S
State of) County of SS.:
On

PATENT- 1249825.1

REEL: 012638 FRAME: 0609

WITNESS my hand and official seal

Date	, 2001 JOHN	D. SHARP	L.S.
State of) County of) SS.:		
Onpersonally appeared name is subscribed	to the within instrument and ackn	e,	e in his authorized capacity, and
WITNESS	S my hand and official seal		
Date	, 2001 <u>KEVI</u>	N R. LEIBY	L.S.
State of) County of	} SS.:		
personally appeared name is subscribed	d KEVIN R. LEIBY, personally leads to the within instrument and acknowledge.	known to me on the basis of satisfactory e owledged to me that he executed the same he entity upon behalf of which the person	evidence to be the person whose e in his authorized capacity, and
WITNESS	S my hand and official seal		
Date	, 2001 STEVE	EN BOSSONE	L.S.
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whose name is sub	scribed to the within instrument	lly known to me on the basis of satisfac and acknowledged to me that he execu he person, or the entity upon behalf of w	ited the same in his authorized
WITNESS	S my hand and official seal		

Date	, 2001	YANG PAN
Date	, 2001	Witnessed by
Date	, 2001	
		Witnessed by
Date	, 2001	THOMAS M. BARNES
		THOMAS M. BARNES
State of)) SS.:	
County of) 55	
On	, 2001, b	pefore me,, Notary Public ES, personally known to me on the basis of satisfactory evidence to be the person
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Date	, 2001	CHRISTOPHER C. FRASER
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WITNESS my	hand and official se	eal

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Date		, 2001		······································	L.S.
		NICHOLA	AS WRIGHTON		
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whose name is	subscribed to the v	vithin instrument and	d acknowledged to me that	, Note that is of satisfactory evidence to be the executed the same in his ehalf of which the person acted	authorized
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		PAUL S. N	MYERS		
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PATENT2 - 1249825.1

RECORDED: 02/22/2002