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RECORDATION FORM COVER SHEET PATENT 101557068 RECORDATION FORM COVER SHEET PATENT TO: The Commissioner of Patents and Trademarks: Please record the attached formation of Trademark of Patents and Trademarks: Please record the attached formation of Trademarks: Please record the attached formation of the patents of the			A STATE OF THE STA	Color Service	HUM00-03
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To: The Commissioner of Patents and Trademarks: Please record the Alberte-Orbital document(s) or copy(les). Submission Type 3-6-00		101557068	· · · · · · · · · · · · · · · · · · ·	JEC - JE	<i>y</i> \
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To: the Commissioner of Patents and Trademarks: Please record the attached thin a submission Type 3-6-00 X New Submission Type X New Security Agreement Security		RECORDA	\$		
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Name (line 1) Keith, Tim Name (line 2) Second Party Name (line 1) Little, Randall Name (line 2) Receiving Party Name (line 2) Receiving Party Name (line 1) Genome Therapeutics Corporation Name (line 2) Address (line 1) Address (line 2) Address (line 3) Address (line 3) Address (line 1) Address (line 1) Address (line 2) Address (line 3) Address (line 4) FOR OFFICE USE ONLY	1 1				- 1
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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

PATENT

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FORM PTO Expires 06/30/99 OMB 0651-0027	-1619B	Page 2		U.S. Department of Comm Patent and Trademark Off PATENT	fice
Corresponde	ent Name and Address	Area Code and Tele	phone Number	~781~398~2508	-Ser
Name	Nina L. Pearlmutter,	Esq.	044	信IVU	
Address (line 1)	Genome Therapeutics C	orporation			
Address (line 2)	100 Beaver Street		DE	C 6 2000	
Address (line 3)	Waltham, MA 02453				
Address (line 4)					1 2(₅₁
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Enter either the Pate 09/548,79	s being filed together with a new Pate t named executing inventor.	Patent Number (DO NOT EN	Patent Nu	umber(s)	Yea
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Fee Amount	Fee Amount	for Properties Listed(37 CFR 3.41): \$	40.00	
Deposit	of Payment: Enclo Account payment by deposit account or if add		o the account.)		

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Deposit Account Number:

Signature

Authorization to charge additional fees:

No

50-1040

X

Yes

FORM PTO-1619C Expires 06/30/99

RECORDATION FORM COVER SHEET CONTINUATION

U.S. Department of Commerce Patent and Trademark Office

OMB 0651-0027	PATENTS ONLY	PATENT
Conveying Pa	arty(ies) X Mark if additional names of conveying part	on ottook al
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Name (line 2)		Execution Date Month Day Year
Name (line 1)	Dupuis, Josee	11 08 2000
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Name (line 1)	Del Mastro, Richard	Month Day Year 11 08 2000
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Name (line 1)		If document to be recorded is an assignment and the
Name (line 2)		receiving party is not domiciled in the United States, an appointment of a domestic representative
Address (line 1)		is attached. (Designation must be a separate
Address (line 2)		document from Assignment.)
Address (line 3)	City State/Country	Zip Code
Name (line 1)		If document to be recorded is an assignment and the
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Address (line 1)		domestic representative is attached. (Designation must be a separate document from
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Address (line 3)	City State/Country	Zip Code
	lumber(s) or Patent Number(s) Mark if additional number	ers attached
	Patent Application Number or the Patent Number (DO NOT ENTER BOTH number Patent Application Number(s)	tent Number(s)

PATENT

FORM PTO-1619C

RECORDATION FORM COVER SHEET

U.S. Department of Commerce

Expires 06/30/99 OMB 0651-0027	PATENTS ONLY	PATENT
Conveying Pa	mark if additional frames of conveying parties attached	Execution Date Month Day Year
Name (line 1)	Simon, Jason	10 26 2000
Name (line 2)		Execution Date
Name (line 1)	Allen, Kristina	Month Day Year 11 08 2000
Name (line 2)		Execution Date
Name (line 1)		Month Day Year
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Name (tine 2)		receiving party is not domiciled in the United States, an appointment of a
Address (line 1)		domestic representative is attached. (Designation must be a separate document from
Address (line 2)		Assignment.)
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	umber(s) or Patent Number(s) Mark if additional numbers attached Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the sa	me property).
	tent Application Number(s) Patent Numb)

PATENT

REEL: 011340 FRAME: 0782

Docket No.	HUM00-03
DUCKELING.	11014100-02

Joint

ASSIGNMENT

WHEREAS, we, Tim Keith, Randall Little, Paul VanEerdewegh, Josee Dupuis, Richard Del Mastro, Jason Simon, Sunil Pandit and Kristina Allen, have invented a certain improvement in NOVEL HUMAN GENES RELATING TO RESPIRATORY DISEASES AND OBESITY described in an application for Letters Patent of the United States, the specification of which:

[]	is being executed on even date herewith and is abo States Patent Office;	ut to be filed in the United
[X]	was filed on April 13, 2000 as Application No.	09/548,797;
[]	was patented under U.S. Patent No.	_on

WHEREAS, Genome Therapeutics Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 100 Beaver Street, Waltham, Massachusetts 02453 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including

the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

	Inventor:	Tim Keith	14
State/Commonwealth			
of Massachusetta	_		
County of Middlesel	_		
Then personally appeared before me he/she executed the foregoing instrument day of frameway, 20 to 20.	ment as his/her		
			Notary Public
(SEAL)	Cont M	Spaso	_(print name)
	My Commissi	on expires de	1 14.143

Inventor: Randall Little

State/Commonwealth	
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	me the above-named Randall Little and acknowledged instrument as his/her free act and deed this
	Notary Public
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	My Commission expires 6/12/03
	Inventor: //a // Paul VanEerdewegh
State/Commonwealth	
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acknowledged that he/she execute	me the above-named Paul VanEerdewegh and deed this deed this yem be, 20 dd.
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	My Commission expires 6/11/03

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	e the above-named Josee Dupuis and acknowledged that ument as his/her free act and deed this
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	My Commission expires 6/12/03
	Inventor: Likal Mastro Richard Del Mastro
State/Commonwealth	
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	the above-named Richard Del Mastro and the foregoing instrument as his/her free act and deed this tem fees, 2000
	Notary Public
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State/Commonwealth	
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	ore me the above-named Jason Simon and acknowledged that instrument as his/her free act and deed this, 20
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	My Commission expires / /
	Inventor:Sunil Pandit
State/Commonwealth	
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	ore me the above-named Sunil Pandit and acknowledged that instrument as his/her free act and deed this, 20
	Notary Public
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Inventor:

Jason Simon

Inventor: Lustina Allen

Kristina Allen

State/Commonwealth	
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	efore me the above-named Kristina Allen and acknowledged that ag instrument as his/her free act and deed this, 206.
	Notary Public
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	My Commission expires $\sqrt{1/2/03}$

Joint

ASSIGNMENT

WHEREAS, we, Tim Keith, Randall Little, Paul VanEerdewegh, Josee Dupuis, Richard Del Mastro, Jason Simon, Sunil Pandit and Kristina Allen, have invented a certain improvement in NOVEL HUMAN GENES RELATING TO RESPIRATORY DISEASES AND OBESITY described in an application for Letters Patent of the United States, the specification of which:

[]	is being executed on even date herewith and is about States Patent Office;	ut to be filed in the Unite	d
[X]	was filed on April 13, 2000 as Application No.	09/548,797 ;	
[]	was patented under U.S. Patent No.	on	

WHEREAS, Genome Therapeutics Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 100 Beaver Street, Waltham, Massachusetts 02453 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including

the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

	Inventor:	
	Tim J	Keith
State/Commonwealth		
of		
County of		
Then personally appeared befo he/she executed the foregoing i day of,	instrument as his/her free a	ndall Little and acknowledged that ct and deed this
		Notary Public
(SEAL)		(print name)
	My Commission exp	pires / /

	Inventor:
	Inventor:Randall Little
State/Commonwealth	
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County of	
	re me the above-named Randall Little and acknowledged and instrument as his/her free act and deed this
	Notary Public
SEAL)	(print name)
	My Commission expires//
	Inventor:
	Paul VanEerdewegh
State/Commonwealth	
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	Notary Public
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	My Commission expires / /

	Inventor:
	Inventor: Josee Dupuis
State/Commonwealth	
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County of	
	re me the above-named Josee Dupuis and acknowledged that nstrument as his/her free act and deed this, 20
	Notary Public
(SEAL)	(print name)
	My Commission expires / /
	Inventor:Richard Del Mastro
State/Commonwealth	
of	
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acknowledged that he/she exec	re me the above-named Richard Del Mastro and uted the foregoing instrument as his/her free act and deed this, 20
	Notary Public
(SEAL)	(print name)
	My Commission expires / /

Jason Simon

Inventor:

State/Commonwealth	
of New Jersey	_
County of Union	_
	the above-named Jason Simon and acknowledged that ment as his/her free act and deed this
(SEAL)	Notary Public ATRICIA CITAVE (q (print name)
	My Commission expires O/////2004
	Inventor
	Inventor: Sunil Pandit
State/Commonwealth	
of	<u> </u>
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Then personally appeared before me he/she executed the foregoing instruday of	e the above-named Sunil Pandit and acknowledged that ment as his/her free act and deed this
	Notary Public
(SEAL)	(print name)
	My Commission expires / /

	Inventor:
	Kristina Allen
State/Commonwealth	
of	
County of	
- · · · · ·	me the above-named Kristina Allen and acknowledged that strument as his/her free act and deed this, 20
	Notary Public
(SEAL)	(print name)
	My Commission expires / /

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to r

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

(\$) 40.00

espond to a collection of inform	lation unless it displays a valid OMB control number
Con	nplete if Known
Application Number	09/548,797
Filing Date	April 13, 2000
First Named Inventor	Tim Keith
Examiner Name	
Group Art Unit	
Attorney Docket No.	HUMO0-03

METHOD OF PAYMENT FEE CALCULATION (continued)		
1. X The Commissioner is hereby authorized to charge indicated fees and credit any overnaments to:	3. ADDITIONAL FEES	
indicated fees and credit any overpayments to: Deposit	Large Small	
Account Number 50-1040	Entity Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe	Fee Paid
Deposit	Code (\$) Code (\$)	ree Palu
Account Name	105 130 205 65 Surcharge - late filing fee or oath	
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional filing fee or cover sheet	
Applicant claims Small entity status.	139 130 139 130 Non-English specification	
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for ex parte reexamination	
2. Payment Enclosed:	112 920* 112 920* Requesting publication of SIR prior to]
Check Credit card Money Other	Examiner action 113 1,840* 113 1,840* Requesting publication of SIR after	
FEE CALCULATION	Examiner action	
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first month	
Large Entity Small Entity	116 390 216 195 Extension for reply within second month	
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 890 217 445 Extension for reply within third month	
101 710 201 355 Utility filing fee	118 1,390 218 695 Extension for reply within fourth month	
106 320 206 160 Design filing fee	128 1,890 228 945 Extension for reply within fifth month	
107 490 207 245 Plant filing fee	119 310 219 155 Notice of Appeal	
108 710 208 355 Reissue filing fee	120 310 220 155 Filing a brief in support of an appeal	
114 150 214 75 Provisional filing fee	121 270 221 135 Request for oral hearing	
SUBTOTAL (1) (\$)	138 1,510 138 1,510 Petition to institute a public use proceeding	
	140 110 240 55 Petition to revive - unavoidable	
2. EXTRA CLAIM FEES Fee from	141 1,240 241 620 Petition to revive - unintentional	
Extra Claims below Fee Paid	142 1,240 242 620 Utility issue fee (or reissue)	
Total Claims -20** = X = Independent -3** = X	143 440 243 220 Design issue fee	
Claims Multiple Dependent		
Multiple Dependent		
Large Entity Small Entity	123 50 123 50 Processing fee under 37 CFR 1.17(q) 126 180 126 180 Submission of Information Disclosure Stmt	
Fee Fee Fee Fee Description		
Code (\$)	581 40 581 40 Recording each patent assignment per property (times number of properties)	40.00
102 80 202 40 Independent claims in excess of 3	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))	
104 270 204 135 Multiple dependent claim, if not paid	149 710 249 355 For each additional invention to be	
109 80 209 40 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b))	
110 18 210 9 ** Reissue claims in excess of 20	179 710 279 355 Request for Continued Examination (RCE)	
and over original patent	169 900 169 900 Request for expedited examination of a design application	
SUBTOTAL (2)	Other fee (specify)	
**or number previously paid, if greater. For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.0	20
or number previously paid, it greater, i or itolecaes, are above		النــــــــــــــــــــــــــــــــــــ

781-398-2548 46,197 Name (Print/Type) Robert LA Spadafora (Attorney/Agent) 12/05/00 Signature WARNING! Information on this form may become public. Credit card information should not

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PATENT REEL: 011340 FRAME: 0795

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