

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2900726

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN PATRICK MAXWELL	03/12/2014
PAUL S. CHARIFSON	06/05/2014
QING TANG	06/05/2014
STEVEN M. RONKIN	06/05/2014
KATRINA LEE JACKSON	06/05/2014
ALBERT CHARLES PIERCE	06/09/2014
DAVID J. LAUFFER	06/09/2014
PAN LI	06/05/2014
SIMON GIROUX	06/05/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VERTEX PHARMACEUTICALS INCORPORATED
<b>Street Address:</b>	50 NORTHERN AVENUE, 15TH FLOOR
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02210
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14205657
<b>PCT Number:</b>	US2014024767
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	patents@vrtx.com
<b>Correspondent Name:</b>	VERTEX PHARMACEUTICALS INCORPORATED
<b>Address Line 1:</b>	50 NORTHERN AVENUE, 15TH FLOOR
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210
<b>ATTORNEY DOCKET NUMBER:</b>	VPI/11-137 US2 & WO
<b>NAME OF SUBMITTER:</b>	FRANCES M. CUNNINGHAM
<b>SIGNATURE:</b>	/Frances M. Cunningham/

PATENT

DATE SIGNED:	06/17/2014
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**Total Attachments: 26**

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## ASSIGNMENT

We,

- (1) John Patrick Maxwell, of Hingham, Massachusetts;
- (2) Paul S. Charifson, of Framingham, Massachusetts;
- (3) Qing Tang, of Acton, Massachusetts;
- (4) Steven M. Ronkin, of Watertown, Massachusetts;
- (5) Katrina Lee Jackson, of Cambridge, Massachusetts;
- (6) Albert Charles Pierce, of Cambridge, Massachusetts;
- (7) David J. Lauffer, of Stow, Massachusetts;
- (8) Pan Li, of Lexington, Massachusetts; and
- (9) Simon Giroux, of Cambridge, Massachusetts,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 50 Northern Avenue, Boston, Massachusetts 02210, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

(1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:

(a) the application for United States Letters Patent entitled: DNA-PK INHIBITORS, and filed in the United States Patent and Trademark Office on March 12, 2014, under Application Number 14/205,657<sup>1</sup>, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: DNA-PK INHIBITORS, filed under the Patent Cooperation Treaty in the United States Receiving Office on March 12, 2014,

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<sup>1</sup> We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

under Application No. PCT/US2014/024767<sup>2</sup>, and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world;

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/777,816	US	March 12, 2013
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and

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<sup>2</sup> I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

John Patrick Maxwell

(1) John Patrick Maxwell

Date: 3-12-2014

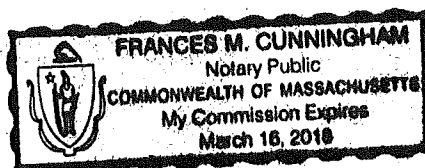
Commonwealth of Massachusetts  
County of Suffolk

On this 12<sup>th</sup> day of March, 2014, before me, the undersigned notary public, personally appeared John Patrick Maxwell, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Frances M. Cunningham

Notary Public

My Commission Expires: 3/16/2018



\_\_\_\_\_  
(2) Paul S. Charifson

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared Paul S. Charifson, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.

\_\_\_\_\_  
(3) Qing Tang

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared Qing Tang, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.



\_\_\_\_\_  
(4) Steven M. Ronkin

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared Steven M. Ronkin, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.

\_\_\_\_\_  
(5) Katrina Lee Jackson

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared Katrina Lee Jackson, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.

\_\_\_\_\_  
(6) Albert Charles Pierce

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared Albert Charles Pierce, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.

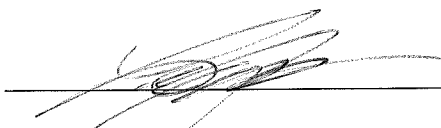
\_\_\_\_\_  
(7) David J. Lauffer

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared David J. Lauffer, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

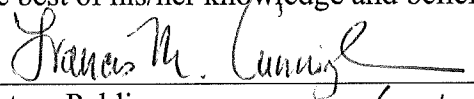
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Notary Public  
My Commission Expires: \_\_\_\_\_.

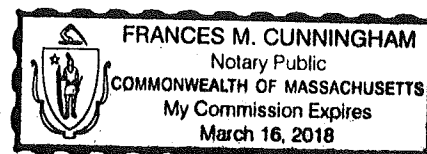
  
(8) Pan Li

Date: 3/12/2014

Commonwealth of Massachusetts  
County of Suffolk

On this 12<sup>th</sup> day of March, 2014, before me, the undersigned notary public, personally appeared Pan Li, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☒ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public  
My Commission Expires: 3/16/2018



\_\_\_\_\_  
(9) Simon Giroux

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared Simon Giroux, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.

ACKNOWLEDGMENT OF ASSIGNEE

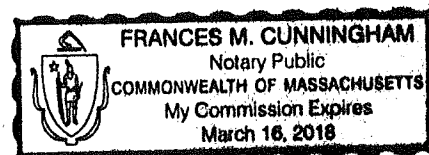
By: *Kerry A. Flynn*  
Kerry A. Flynn  
Vice President and Chief IP Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: *June 13, 2014*

Commonwealth of Massachusetts  
County of Suffolk

On this *13<sup>th</sup>* day of *June*, 2014, before me, the undersigned notary public, personally appeared Kerry A. Flynn (name of document signer), proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

*Frances M. Cunningham*  
Notary Public  
My Commission Expires: *3/16/2018*



## ASSIGNMENT

We,

- (1) John Patrick Maxwell, of Hingham, Massachusetts;
- (2) Paul S. Charifson, of Framingham, Massachusetts;
- (3) Qing Tang, of Acton, Massachusetts;
- (4) Steven M. Ronkin, of Watertown, Massachusetts;
- (5) Katrina Lee Jackson, of Cambridge, Massachusetts;
- (6) Albert Charles Pierce, of Cambridge, Massachusetts;
- (7) David J. Lauffer, of Stow, Massachusetts;
- (8) Pan Li, of Lexington, Massachusetts; and
- (9) Simon Giroux, of Cambridge, Massachusetts,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, by virtue of our agreement with Vertex Pharmaceuticals Incorporated and do hereby assign, sell and transfer to, Vertex Pharmaceuticals Incorporated, a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having an office and a place of business at 50 Northern Avenue, Boston, Massachusetts 02210, its successors and assigns, all hereinafter referred to as the ASSIGNEE:

(1) the entire right, title and interest in the United States and in all countries throughout the world in and to any and all of my/our inventions, and discoveries disclosed in:

(a) the application for United States Letters Patent entitled: DNA-PK INHIBITORS , and filed in the United States Patent and Trademark Office on March 12, 2014, under Application Number 14/205,657<sup>1</sup>, including any renewals, revivals, reissues, reexaminations, extensions, continuations, and divisions thereof, and any substitute applications therefor, and/or

(b) the International Patent Application entitled: DNA-PK INHIBITORS, filed under the Patent Cooperation Treaty in the United States Receiving Office on March 12, 2014,

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<sup>1</sup> We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.



under Application No. PCT/US2014/024767<sup>2</sup>, and designating all countries, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof, and any substitute applications therefor;

(2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names at the election of the ASSIGNEE or its designee, on the aforesaid inventions, discoveries and applications in the United States and in any other country of the world;

(3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any other country of the world, and in and to any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof; and

(4) the entire right, title and interest in and to all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications including, but not limited to, the following priority application(s):

61/777,816	US	March 12, 2013
Application No.	Country	Filing Date

and all rights of priority in any country of the world deriving from the above-identified International Patent Application.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and

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<sup>2</sup> I/We authorize and request ASSIGNEE to insert the filing date and/or application number of said application when known.

importation based on any Letters Patent issuing on said inventions, discoveries or applications, and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

\_\_\_\_\_  
(1) John Patrick Maxwell

Date: \_\_\_\_\_

Commonwealth of Massachusetts  
County of Suffolk

On this \_\_\_\_\_ day of \_\_\_\_\_, 2014, before me, the undersigned notary public, personally appeared John Patrick Maxwell, proved to me through satisfactory evidence of identification which was/were: ☐ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

\_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_.

Paul S. Charifson

(2) Paul S. Charifson

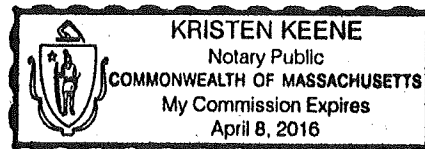
Date: June 5, 2014

Commonwealth of Massachusetts  
County of Suffolk

On this 5<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Paul S. Charifson, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Kristen Keene  
Notary Public

My Commission Expires: 4/8/2016.



Q Tang

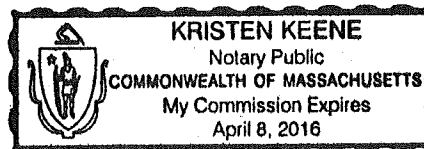
(3) Qing Tang


Date: 6/5/14

Commonwealth of Massachusetts  
County of Suffolk

On this 5<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Qing Tang, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Buster Keese  
Notary Public  
My Commission Expires: 4/8/2016





(4) Steven M. Ronkin

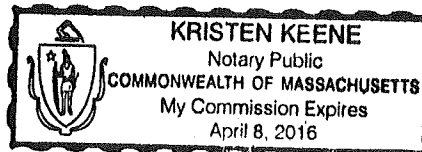
Date: 6/5/14

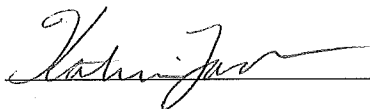
Commonwealth of Massachusetts  
County of Suffolk

On this 5<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Steven M. Ronkin, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public

My Commission Expires: 4/8/2016.



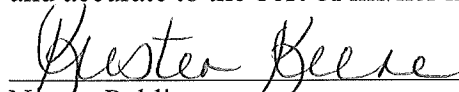


(5) Katrina Lee Jackson

Date: June 5, 2014

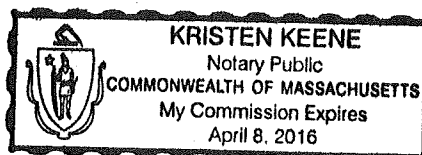
Commonwealth of Massachusetts  
County of Suffolk

On this 5<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Katrina Lee Jackson, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.



Notary Public

My Commission Expires: 4/8/2016



Albert Charles Pierce

(6) Albert Charles Pierce

Date: June 9, 2014

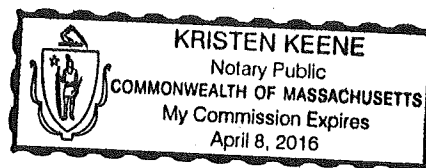
Commonwealth of Massachusetts  
County of Suffolk

On this 9th day of June, 2014, before me, the undersigned notary public, personally appeared Albert Charles Pierce, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

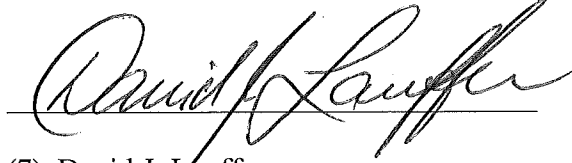
Kristen Keene

Notary Public

My Commission Expires: 4/8/2016





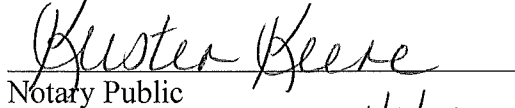


(7) David J. Lauffer

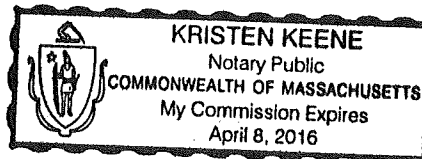
Date: 9 June 2014

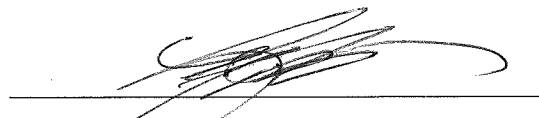
Commonwealth of Massachusetts  
County of Suffolk

On this 9<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared David J. Lauffer, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public

My Commission Expires: 4/8/2016




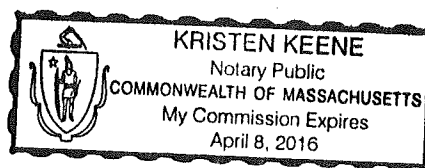
  
(8) Pan Li

Date: 6/5/2014

Commonwealth of Massachusetts  
County of Suffolk

On this 5<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Pan Li, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public  
My Commission Expires: 4/8/2016



*[Signature]*

(9) Simon Giroux

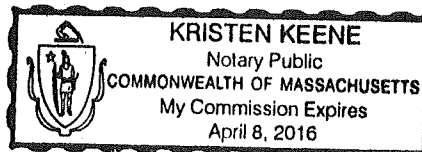
Date: 06/05/2014

Commonwealth of Massachusetts  
County of Suffolk

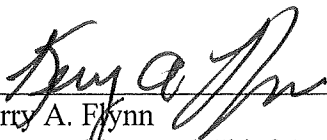
On this 5<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Simon Giroux, proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

*Kristen Keene*  
Notary Public

My Commission Expires: 4/8/2016



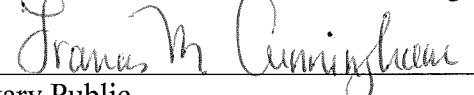
ACKNOWLEDGMENT OF ASSIGNEE

By:   
Kerry A. Flynn  
Vice President and Chief IP Counsel  
VERTEX PHARMACEUTICALS INCORPORATED

Date: June 13, 2014

Commonwealth of Massachusetts  
County of Suffolk

On this 13<sup>th</sup> day of June, 2014, before me, the undersigned notary public, personally appeared Kerry A. Flynn (name of document signer), proved to me through satisfactory evidence of identification which was/were: ☒ personal knowledge of identity, ☐ a driver's license, ☐ other (please identify) \_\_\_\_\_, to be the person whose name is signed on this document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

  
Notary Public  
My Commission Expires: 3/16/2018

