

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hayley Binch</td> <td>03/13/2009</td> </tr> <tr> <td>Peter D.J. Grootenhuis</td> <td>03/13/2009</td> </tr> <tr> <td>Albert Pierce</td> <td>03/04/2009</td> </tr> <tr> <td>Lev T.D. Fanning</td> <td>03/24/2009</td> </tr> </tbody> </table>		Name	Execution Date	Hayley Binch	03/13/2009	Peter D.J. Grootenhuis	03/13/2009	Albert Pierce	03/04/2009	Lev T.D. Fanning	03/24/2009
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<table border="1"> <tr> <td>Name:</td> <td>Vertex Pharmaceuticals Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>130 Waverly Street</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	Vertex Pharmaceuticals Incorporated	Street Address:	130 Waverly Street	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12813876</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12813876						
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CORRESPONDENCE DATA											
Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Email: leslie_garbarczuk@vrtx.com Correspondent Name: Vertex Pharmaceuticals Incorporated Address Line 1: 130 Waverly Street Address Line 4: Cambridge, MASSACHUSETTS 02139											
ATTORNEY DOCKET NUMBER:	VPI/07-146 US CN1										
NAME OF SUBMITTER:	Leslie Garbarczuk										
Signature:	/Leslie Garbarczuk/										
Date:	09/04/2013										

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Total Attachments: 7

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PATENT

REEL: 031135 FRAME: 0679

ASSIGNMENT

We,

- (1) Hayley Binch, of Encinitas, California;
- (2) Peter D. J. Grootenhuis, of San Diego, California;
- (3) Albert Pierce, of Cambridge, Massachusetts, and
- (4) Lev T.D. Fanning, of San Marcos, California,

for good and valuable consideration, receipt of which is hereby acknowledged, have assigned, sold and transferred to, 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 130 Waverly Street, Cambridge, MA 02139, 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 International Patent Application entitled: **MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR**, filed under the Patent Cooperation Treaty in the United States Receiving Office on December 12, 2008, under Application No. PCT/US08/86562, 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 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):

61/013,336	United States of America	December 13, 2007
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 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.

Hayley Binch

(1) Hayley Binch

Date: 13th March 2009.

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 13th, day of
March, 2009 by Hayley Binch proved to me on the basis of satisfactory

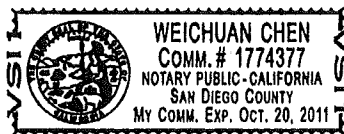
evidence to be the person(s) who appeared before me.

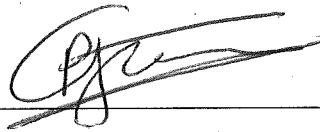
Wen Chen

Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)





(2) Peter D.J. Grootenhuis

Date: 3/13/2009

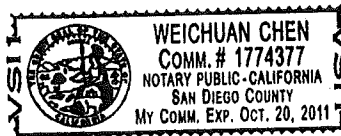
State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 13th, day of
March, 2009 by Peter D. J. Groontenhuis, proved to me on the basis of
satisfactory evidence to be the person(s) who appeared before me.


Notary Public
My Commission Expires: 10-20-2011

(Notary Seal)



Albert Pierce

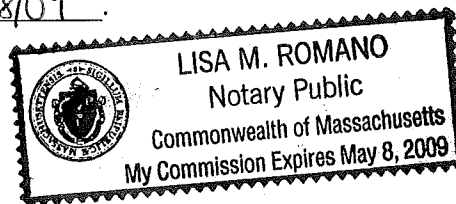
(3) Albert Pierce

Date: March 4, 2009

Commonwealth of Massachusetts
County of Middlesex

On this 4th day of March, 2009, before me, the undersigned notary public, personally appeared Albert 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 knowledge and belief.

Lisa M. Romano
Notary Public Lisa M. Romano
My Commission Expires: 5/8/09.



Lev T.D. Fanning

(4) Lev T.D. Fanning

Date: 3/24/09

State of California

County of San Diego ss

Subscribed and sworn to (or affirmed) before me this (date) 24th, day of

March, 2009 by Lev T.D. Fanning, proved to me on the basis of

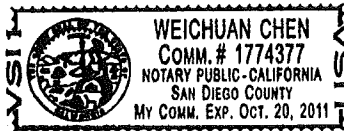
satisfactory evidence to be the person(s) who appeared before me.

Weichuan Chen

Notary Public

My Commission Expires: 10-20-2011

(Notary Seal)



ACKNOWLEDGMENT OF ASSIGNEE

By: [Signature]
Stephen L. Nesbitt
Chief Patent Counsel
VERTEX PHARMACEUTICALS INCORPORATED

Date: April 28, 2009

Commonwealth of Massachusetts
County of Middlesex

On this 28th day of APRIL, 2009, before me, the undersigned notary public, personally appeared Stephen L. Nesbitt (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.

[Signature]
Notary Public Lisa Romano
My Commission Expires: 5/8/09.

