

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3675568

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
COSMIN DECIU	11/09/2015
CHEN ZHAO	11/09/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SEQUENOM, INC.
<b>Street Address:</b>	3595 JOHN HOPKINS COURT
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14781987
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(858)623-3224
<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>Phone:</b>	8586233226
<b>Email:</b>	skwiatkowski@grantip.com
<b>Correspondent Name:</b>	GRANT IP INC./ C/O PORTFOLIO IP
<b>Address Line 1:</b>	P.O. BOX 52050
<b>Address Line 4:</b>	MINNEAPOLIS, CALIFORNIA 55402
<b>ATTORNEY DOCKET NUMBER:</b>	PLA-6034-US3
<b>NAME OF SUBMITTER:</b>	BRUCE GRANT, REG NO. 47608
<b>SIGNATURE:</b>	/Bruce Grant/
<b>DATE SIGNED:</b>	12/29/2015
<b>Total Attachments: 4</b>	
source=Assignment-PLA-6034-US3_signed DECIU_ZHAO_2015-11-09#page1.tif	
source=Assignment-PLA-6034-US3_signed DECIU_ZHAO_2015-11-09#page2.tif	
source=Assignment-PLA-6034-US3_signed DECIU_ZHAO_2015-11-09#page3.tif	
source=Assignment-PLA-6034-US3_signed DECIU_ZHAO_2015-11-09#page4.tif	

**ASSIGNMENT AND AGREEMENT**

WHEREAS, **Zeljko DZAKULA** of 12830 Sundance Avenue, San Diego, California, 92129, US; **Cosmin DECIU** of 10545 Sea Mist Way, San Diego, California, 92121, US; and **Chen ZHAO** of 8950 Costa Verde Blvd, Apt 4124, San Diego, California, 92122, US (hereinafter referred to singly and collectively as "Assignor") have invented a certain invention entitled **METHODS AND PROCESSES FOR NON-INVASIVE ASSESSMENT OF GENETIC VARIATIONS** for which a United States Provisional Patent application was filed on April 13, 2013 as Application No. 61/808,027; a United States Provisional Patent application was filed on May 24, 2013 as Application No. 61/827,323; and for which an International Patent Application was filed on April 2, 2014 as Application No. PCT/US2014/032687; and for which an United States Patent Application was filed on October 2, 2015 as Application No. 14/781,987; and

WHEREAS, **Sequenom, Inc.** a corporation duly organized and existing under the laws of the State of Delaware, and having its principal place of business at 3595 John Hopkins Court, San Diego, California, 92121, US (hereinafter referred to as "Assignee") is desirous of acquiring the entire interest therein;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto Assignee, its successors, assigns and nominees, the full and exclusive right, title, and interest in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application(s) and all other applications for patent and patents in any and all countries and jurisdictions for the above-identified invention or inventions and all improvements and modifications thereof, (c) all patents which may issue from said applications in any country or jurisdiction, (d) all divisions, continuations, reissues, and extensions of said applications and patents, and (e) the right to claim for any of said applications the full benefits and rights to priority resulting from filing any of the applications, including, without limitation, rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by Assignee, its successors, assigns and nominees, to the full end of the term or terms for which any and all such patents may be granted as fully and entirely as would have been held and enjoyed by Assignor had this Assignment not been made.

Assignor hereby authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention, or improvement or modification thereof, or resulting therefrom, to Assignee as assignee of the entire interest, or its successors, assigns or nominees.

Assignor hereby agrees (a) to communicate to Assignee, its successors and assigns, or their representatives or agents, all facts and information known or available to Assignor respecting said invention or inventions, improvements, and modifications, including,

without limitation, evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by Assignee; (b) to testify in person or by affidavit as required by Assignee, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by Assignee, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to Assignee, its successors, assigns and nominees, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

Assignor hereby represents and warrants that (a) Assignor has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein to Assignee; (b) Assignor has no obligation to sell, assign or transfer any right, title or interest herein to an entity other than Assignee; (c) that Assignor has not executed and will not execute any document or instrument in conflict herewith; (d) no consents of any other parties are necessary or appropriate under any agreements regarding the inventions, applications or patents described above for the assignment of Assignor's entire right, title and interest herein to be legally effective; and (e) to the best of Assignor's knowledge, upon consummation of this Agreement, Assignee will have good and marketable title to the inventions, applications and patents described above, free and clear of any and all encumbrances, pledges, security interests, licenses or charges of any nature whatsoever.

Assignor hereby grants to the law firm of Grant IP, Inc. the power and authority to insert in this Assignment any further identification, which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Assignor understands and agrees that the attorneys and agents of the law firm of Grant IP, Inc. do not personally represent Assignor or Assignor's legal interests, but instead represent the interests of Assignee; since said attorneys and agents cannot provide legal advice to Assignor with respect to this Assignment, Assignor acknowledges its right to seek its own independent legal counsel.

[INTENTIONALLY LEFT BLANK]

Executed this 9<sup>th</sup> day of November, 2015

*Cosmin DECIU*

Cosmin DECIU

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )

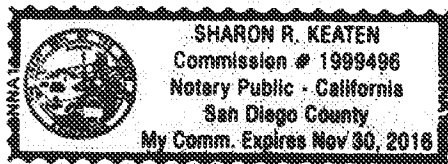
) ss:

COUNTY OF SAN DIEGO )

On this 9<sup>th</sup> day of November, 2015, before me, Sharon R. Keaten  
Notary Public, personally appeared Cosmin DECIU who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Sharon R. Keaten*  
Notary Public in and for said County and State

(Seal)

My Commission Expires: 11-30-2016

Executed this 9<sup>th</sup> day of November 2015

Zhao Chen  
Chen ZHAO

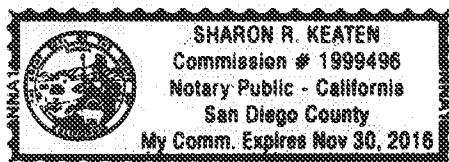
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )  
 ) ss:  
COUNTY OF SAN DIEGO )

On this 9<sup>th</sup> day of November 2015, before me, Sharon R. Keaten  
Notary Public, personally appeared Chen ZHAO who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Sharon R. Keaten  
Notary Public in and for said County and State

(Seal)

My Commission Expires: 11-30-16