

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM490934

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
PERSONAL GENOME DIAGNOSTICS INC.		09/21/2018	Corporation: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	PACIFIC WESTERN BANK		
<b>Street Address:</b>	406 BLACKWELL STREET		
<b>Internal Address:</b>	SUITE 240		
<b>City:</b>	DURHAM		
<b>State/Country:</b>	NORTH CAROLINA		
<b>Postal Code:</b>	27701		
<b>Entity Type:</b>	STATE CHARTERED BANK: CALIFORNIA		
<b>PROPERTY NUMBERS Total: 19</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	5234010	RNACOMPLETE	
<b>Registration Number:</b>	5182586	VARIANTDX	
<b>Registration Number:</b>	5223953	CANCERPRO	
<b>Registration Number:</b>	5223951	PROGENEUS	
<b>Registration Number:</b>	5191929	METDETECT	
<b>Registration Number:</b>	5196236	IMMUNOSELECT	
<b>Registration Number:</b>	5078587	MYPERSONALGENOME	
<b>Registration Number:</b>	4947428	PLASMASELECT	
<b>Registration Number:</b>	4705039	MYPG	
<b>Registration Number:</b>	4697088	PGD	
<b>Registration Number:</b>	4705038	CANCERSELECT	
<b>Registration Number:</b>	4705037	CANCERCOMPLETE	
<b>Serial Number:</b>	87816679	PGDX	
<b>Serial Number:</b>	87722252	PGDX	
<b>Serial Number:</b>	87950371	PGDX ELIO	
<b>Serial Number:</b>	87817624	PGDX PERSONAL GENOME DIAGNOSTICS	
<b>Serial Number:</b>	87925167	PGDX ELIO	
<b>Serial Number:</b>	87191295	MUTATORDETECT	
<b>TRADEMARK</b>			

CH \$490.00 5234010

Property Type	Number	Word Mark
Serial Number:	87596101	TECSEQ

**CORRESPONDENCE DATA**

**Fax Number:** 9193541278

*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.*

**Phone:** (919) 314-3114

**Email:** diligencereview@square1bank.com

**Correspondent Name:** PACIFIC WESTERN BANK

**Address Line 1:** 406 BLACKWELL STREET

**Address Line 2:** SUITE 240

**Address Line 4:** DURHAM, NORTH CAROLINA 27701

<b>NAME OF SUBMITTER:</b>	NICHOLAS NANCE
<b>SIGNATURE:</b>	/NICHOLAS NANCE-JLT/
<b>DATE SIGNED:</b>	09/21/2018

**Total Attachments: 8**

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**INTELLECTUAL PROPERTY SECURITY AGREEMENT**

**THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT** is entered into as of September 21, 2018 by and between **PACIFIC WESTERN BANK** ("**Bank**") and **PERSONAL GENOME DIAGNOSTICS INC.**, a Delaware corporation ("**Grantor**").

**RECITALS**

**A.** Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "**Loans**") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor Loan and Security Agreement dated as of March 7, 2017, as amended by that certain First Amendment to Loan and Security Agreement dated as of September 15, 2017 and as amended by that certain Second Amendment to Loan and Security Agreement dated of even date herewith (as the same may be further amended, modified or supplemented from time to time, the "**Loan Agreement**"; capitalized terms used herein are used as defined in the Loan Agreement).

**B.** Bank is willing to extend and to continue to extend financial accommodations to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Loan Agreement.

**C.** Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

**NOW, THEREFORE**, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantor and Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

**AGREEMENT**

To secure its obligations under the Loan Agreement and under any other agreement now existing or hereafter arising between Bank and Grantor, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof (collectively, "**Intellectual Property Collateral**").

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan

Documents and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity, shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

**SIGNATURE PAGE FOLLOWS**

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

**GRANTOR:**

Address of Grantor:

**PERSONAL GENOME DIAGNOSTICS  
INC.**

2809 Boston Street, Suite 503  
Baltimore, MD 21224  
Attn: William Stevens

By: Doug Ward  
Name: Doug Ward  
Title: CEO

**BANK:**

Address of Bank:

**PACIFIC WESTERN BANK**

406 Blackwell Street, Suite 240  
Durham, NC 27701  
Attn: Loan Documentation Department

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

**GRANTOR:**

Address of Grantor:

**PERSONAL GENOME DIAGNOSTICS  
INC.**

2809 Boston Street, Suite 503  
Baltimore, MD 21224  
Attn: William Stevens

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**BANK:**

Address of Bank:

**PACIFIC WESTERN BANK**

406 Blackwell Street, Suite 240  
Durham, NC 27701  
Attn: Loan Documentation Department

By:  \_\_\_\_\_

Name: Joseph Holmes Dague

Title: Senior Vice President

*Signature Page to Personal Genome Diagnostics Inc. – Intellectual Property Security Agmt.*

**EXHIBIT A**  
**COPYRIGHTS**

<b>Description</b>	<b>Registration Number</b>	<b>Registration Date</b>
None		

**EXHIBIT B**  
**PATENTS**

<b>Description</b>	<b>Registration OR Serial Number</b>	<b>Registration OR Filing Date</b>
Non-Unique Barcodes In A Genotype Assay	201801350044	11/15/2016
Systems and Methods For Analyzing Nucleic Acid	2018119230	11/20/2017
Neoantigen Analysis	20170016075	7/14/2016
Systems And Methods For Analyzing Nucleic Acid	20160273049	3/15/2016
Nucleic Acid Analysis Using Sequence Tokens	20070259357	01/23/2006
Method for Evaluating Minority Variants In A Sample	20160289753	12/02/2013



**EXHIBIT C**  
**TRADEMARKS**

<b>Description</b>	<b>Registration/ Application Number</b>	<b>Registration/ Application Date</b>
RNA COMPLETE (standard character mark)	5234010	6/27/2017
VARIANTDX (standard character mark)	5182586	4/11/2017
CANCERPRO (standard character mark)	5223953	6/13/2017
PROGENEUS (standard character mark)	5223951	6/13/2017
METDETECT (standard character mark)	5191929	4/25/2017
IMMUNOSELECT (standard character mark)	5196236	5/02/2017
MYPERSONALGENOME (standard character mark)	5078587	11/08/2016
PLASMASELECT (standard character mark)	4947428	4/26/2016
<b>MYPG</b>  (Design + words)	4705039	3/17/2015
<b>PGD</b>  (Design + words)	4697088	3/03/2015
CANCERSELECT (standard character mark)	4705038	3/17/2015
CANCERCOMPLETE (standard character mark)	4705037	3/17/2015
PGDx (Words, Letters)	87816679	3/01/2018
PGDX (standard character mark)	87722252	12/15/2017
PGDX ELIO (standard character mark)	87950371	6/06/2018
PGDx Personal Genome Diagnostics (standard character mark)	87817624	3/02/2018
PGDX ELIO (standard character mark)	87925167	5/17/2018
MUTATORDETECT (standard character mark)	87191295	10/03/2016
TECSEQ	87596101	9/05/2017

<b>Description</b>	<b>Registration/ Application Number</b>	<b>Registration/ Application Date</b>
(standard character mark)		