

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM845965

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	Intellectual Property Security Agreement		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Purigen Biosystems, Inc.		10/13/2023	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	High Trail Special Situations LLC, as collateral agent		
Street Address:	c/o High Trail Capital, 80 River Street, Suite 4C		
City:	Hoboken		
State/Country:	NEW JERSEY		
Postal Code:	07030		
Entity Type:	Limited Liability Company: DELAWARE		
PROPERTY NUMBERS Total: 3			
Property Type	Number	Word Mark	
Registration Number:	6069516	PURIGEN BIOSYSTEMS	
Registration Number:	6039030	IONIC	
Registration Number:	6069517	NUCLEIC ACID PURIFICATION - PURE AND SIM	
CORRESPONDENCE DATA			
Fax Number:	2138918763		
<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>			
Email:	rhonda.deleon@lw.com		
Correspondent Name:	LATHAM & WATKINS LLP		
Address Line 1:	355 SOUTH GRAND AVENUE		
Address Line 4:	LOS ANGELES, CALIFORNIA 90071-1560		
ATTORNEY DOCKET NUMBER:	065377-0035		
NAME OF SUBMITTER:	Rhonda DeLeon		
SIGNATURE:	/Rhonda DeLeon/		
DATE SIGNED:	10/13/2023		
Total Attachments: 63			
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (as amended, restated, supplemented or otherwise modified from time to time, this “Agreement”) dated as of October 13, 2023 among Bionano Genomics, Inc., a Delaware corporation (the “Pledgor”), each of the Subsidiaries of the Pledgor from time to time party hereto (collectively, the “Subsidiary Grantors” and, together with the Pledgor, the “Grantors”) and High Trail Special Situations LLC, a Delaware limited liability company, in its capacity as collateral agent for the benefit of the Holders (together with its successors and assigns in such capacity, the “Secured Party”).

WHEREAS, the Pledgor has entered into that certain Securities Purchase Agreement, dated as of October 11, 2023 (as amended, restated, supplemented or otherwise modified from time to time, the “Securities Purchase Agreement”), with High Trail Special Situations LLC (the “Initial Holder”) and each other party thereto, pursuant to which, among other things, the Pledgor will issue, and the Initial Holder will purchase, subject to the terms set forth therein, the Notes (as defined in the Securities Purchase Agreement);

WHEREAS, the Grantors have entered into that certain Security Agreement, dated as of the date hereof (as amended, restated, supplemented or otherwise modified from time to time, the “Security Agreement”), with the Secured Party, pursuant to which each Grantor granted to the Secured Party, for its benefit and the benefit of the Initial Holder and each Holder under and as defined in any Note (the “Holders”), a security interest in substantially all of such Grantor’s personal property; and

WHEREAS, in connection with the entry by the Grantors and the Secured Party into the Security Agreement, Secured Party has required that the Grantors execute and deliver this Agreement to the Secured Party for its benefit and the benefit of the Holders.

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each Grantor hereby agrees as follows:

Section 1. DEFINED TERMS; RULES OF CONSTRUCTION.

- (a) Capitalized terms used in this Agreement but not otherwise defined herein have the meanings given to them in the Security Agreement.
- (b) When used herein the following terms shall have the following meanings:

“Copyright Licenses” shall have the meaning set forth in the Note.

“Intellectual Property Licenses” shall have the meaning set forth in the Security Agreement.

“PTO” means the United States Patent and Trademark Office and any successor office or agency.

“Patent Licenses” shall have the meaning set forth in the Note.

“Trademark Licenses” shall have the meaning set forth in the Note.

- (c) All Schedules, Addenda, Annexes and Exhibits hereto or expressly identified to this Agreement are incorporated herein by reference and taken together with this Agreement constitute but a single agreement. The words “herein”, “hereof” and “hereunder” or other words of similar import refer to this Agreement as a whole, including the Exhibits, Addenda, Annexes and Schedules thereto, as the same may be from time to time amended, modified, restated or supplemented, and not to any particular section, subsection or clause contained in this Agreement. Wherever from the context it appears appropriate, each term stated in either the singular or plural shall include the singular and the plural, and pronouns stated in the masculine, feminine or neuter gender shall include the masculine, the feminine and the neuter. The term “or” is not exclusive. The term “including” (or any form thereof) shall not be limiting or exclusive. All references to statutes and related regulations shall include any amendments of same and any successor statutes and regulations. All references in this Agreement or in the Schedules, Addenda, Annexes and Exhibits to this Agreement to sections, schedules, disclosure schedules, exhibits, and attachments shall refer to the corresponding sections, schedules, disclosure schedules, exhibits and attachments of or to this Agreement. All references to any instruments or agreements, including references to any of this Agreement, the Security Agreement or the other Note Documents shall include any and all modifications or amendments thereto and any and all extensions or renewals thereof.
- (d) The parties acknowledge that each party and its counsel have reviewed this Agreement and that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this Agreement or any amendments, schedules or exhibits thereto.

Section 2. GRANT OF SECURITY INTEREST IN INTELLECTUAL PROPERTY COLLATERAL. To secure the prompt payment and performance in full when due (whether at stated maturity, by acceleration or otherwise) of the Obligations, each Grantor hereby pledges and grants to the Secured Party (for its benefit and the ratable benefit of the Holders) a continuing security interest in and Lien upon all of such Grantor’s right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired (collectively, the “Collateral”):

- (a) Trademarks and Trademark Licenses to which it is a party, including those referred to on Schedule I hereto;
- (b) Patents and Patent Licenses to which it is a party, including those referred to on Schedule II hereto;
- (c) Copyrights and Copyright Licenses to which it is a party, including those referred to on Schedule III hereto;

- (d) Intellectual Property not covered by the foregoing, including those referred to on Schedule IV hereto and all Intellectual Property Licenses;
- (e) Renewals, reissues, continuations, continuations-in-part, reexaminations, divisions, or extensions of any of the foregoing;
- (f) Rights to sue, whether at law or in equity, third parties for past, present or future infringement, dilution, misappropriation, or other violation or impairment of rights in any Intellectual Property, including injury to the goodwill associated with any Trademark, and all causes of action for the same; and
- (g) All products and Proceeds of all or any of the foregoing, tort claims and all claims and other rights to payment including (i) insurance claims against third parties for loss of, damage to, or destruction of, the foregoing Collateral and (ii) payments due or to become due under licenses of any or all of the foregoing and Proceeds payable under, or unearned premiums with respect to policies of insurance in whatever form; provided, however, that the Collateral shall not constitute a grant of a security interest in any trademark or service mark applications filed in the PTO on the basis of such Grantor's intent to use such trademark or service mark, unless and until a statement of use or amendment to allege use is filed in the PTO, in which event, such trademark or service mark shall automatically be included in the Collateral, or in any rights arising under any contracts, instruments, licenses or other documents as to which the grant of a security interest would violate or invalidate any such contract, instrument, license or other document or give any other party to such contract, instrument, license or other document the right to terminate its obligations thereunder.

Section 3. REPRESENTATIONS AND WARRANTIES.

Each Grantor represents and warrants to the Secured Party, in addition to the representations and warranties in the Security Agreement and the other Note Documents, that:

- (a) such Grantor has been, in all material respects (i) using statutory notice of registration in connection with its use of registered Trademarks, (ii) proper marking practices in connection with the use of Patents, and (iii) appropriate notice of copyright in connection with the publication of copyrighted material;
- (b) such Grantor has taken all actions it deems necessary in its reasonable business judgment to ensure that all licensees of Trademarks owned by such Grantor use consistent standards of quality as directed by such Grantor in connection with its licensed products and services; and
- (c) this Agreement, together with the Security Agreement, is effective to create a valid security interest in favor of the Secured Party, for its benefit and the benefit of the Holders, in all of such Grantor's Intellectual Property. Upon (i) the filing of this Agreement in the United States Copyright Office (with respect to the United States Copyrights set forth on Schedule III hereto), (ii) the filing of all appropriate UCC- 1 financing statements (with respect to such Grantor's (A) Patents, (B) Trademarks and

(C) any Copyrights of such Grantor not registered with the United States Copyright Office) and (iii) the filing of this Agreement in the PTO (with respect to the United States Patents set forth on Schedule II hereto and the United States Trademarks set forth on Schedule I hereto), such security interest will be enforceable as such as against any and all creditors of, and purchasers from, such Grantor (subject only to Permitted Liens) and all action necessary to protect and perfect the Secured Party's Lien on such Grantor's Patents, Trademarks, and Copyrights, shall have been taken.

Section 4. COVENANTS. Each Grantor covenants and agrees with the Secured Party, from and after the date of this Agreement, and in addition to the covenants in the Security Agreement and the other Note Documents, that:

- (a) Such Grantor shall notify the Secured Party promptly if it knows that any application or registration relating to any material Intellectual Property owned by such Grantor has or may become abandoned, dedicated to the public, placed in the public domain or otherwise invalidated or unenforceable. Such Grantor shall further notify the Secured Party promptly of any adverse determination or decision in any proceeding and the institution of any proceeding challenging such Grantor before the PTO, the United States Copyright Office, or any similar agency of the United States, any State, or other country or political subdivision thereof, any internet domain registry or other registry, or any court, regarding such Grantor's ownership of or right to use, register, keep and/or maintain any Intellectual Property. Such Grantor shall be free to prosecute and maintain its Intellectual Property in the ordinary course of business in a commercially reasonable manner, and, notwithstanding the foregoing, shall not be required to report preliminary or initial determinations, unless and until made final, by the PTO, the United States Copyright Office, or any similar agency of the United States, any State, or other country or political subdivision thereof, any internet domain registry or other registry, or any court, regarding such Grantor's ownership of or right to use, register, keep and/or maintain any Intellectual Property;
- (b) Such Grantor shall or shall cause the applicable Pledged Entity to (i) prosecute diligently any patent, trademark, or service mark applications pending as of the date hereof or hereafter if material to the operations of the business of such Grantor or such Pledged Entity, (ii) preserve and maintain all rights in the Copyrights, Patents and Trademarks, to the extent material to the operations of the business of such Grantor or such Pledged Entity and (iii) ensure that the Copyrights, Patents and Trademarks are and remain enforceable, to the extent material to the operations of the business of such Grantor or such Pledged Entity. Any expenses incurred in connection with such Grantor's obligations under this Section 4(b) shall be borne by such Grantor. Except for any such items that such Grantor reasonably believes (using prudent industry customs and practices) are no longer necessary for the on-going operations of its business or the business of any Pledged Entity, such Grantor shall not and shall not cause any Pledged Entity to abandon any material right to file a patent, trademark or service mark application, or abandon any material pending patent, trademark or service mark application or any other Copyright, Patent or Trademark without the prior written consent of the Secured Party, which consent shall not be unreasonably withheld;

- (c) In the event that any Intellectual Property owned by or exclusively licensed to such Grantor is known by such Grantor to be infringed, diluted, misappropriated, or otherwise violated by a third party, such Grantor shall notify the Secured Party promptly after such Grantor learns thereof and, if such Intellectual Property is material to the conduct of such Grantor's business, such Grantor shall, if consistent with good business judgment, promptly take all commercially reasonable actions to stop the same and enforce its rights in such Intellectual Property and to recover all damages therefor, including, but not limited to, the initiation of a suit for injunctive relief and damages where reasonable and cost effective to do so (provided that such Grantor must initiate suit in all cases where the failure to do so could reasonably be expected to have a Material Adverse Effect) and shall take such other actions as are commercially reasonable, or as the Secured Party shall deem appropriate in its or their good faith exercise of its or their commercially reasonable discretion under the circumstances to protect such Grantor's rights in such Intellectual Property;
- (d) Such Grantor shall use appropriate statutory notice of registration in connection with its use of registered Trademarks, proper marking practices in connection with the use of Patents, appropriate notice of copyright in connection with the publication of copyrighted materials, and other legends or markings applicable to other Intellectual Property;
- (e) Such Grantor shall use commercially reasonable efforts to maintain the level of the quality of products sold and services rendered under any Trademarks owned by such Grantor at a level at least consistent with the quality of such products and services as of the date hereof, and such Grantor shall use commercially reasonable efforts to adequately control the quality of goods and services offered by any licensees of its Trademarks;
- (f) Such Grantor shall take all steps necessary to protect the secrecy of all trade secrets material to its business;
- (g) To the knowledge of such Grantor, such Grantor's use of the Intellectual Property owned by such Grantor is not interfering with, infringing upon, misappropriating, or otherwise in conflict with the Intellectual Property rights of any third party in any material respect; and
- (h) If such Grantor shall obtain ownership of or other right, title or interest in or to, any registered Copyrights, issued or applied-for Patents, or registered or applied for Trademarks, the provisions of this Agreement shall automatically apply thereto and such Grantor shall give to the Secured Party written notice thereof by delivery of an updated Schedule III, IV, V and/or VI to the Security Agreement, as applicable, in accordance with Section 2(g) of the Security Agreement. Such Grantor hereby authorizes the Secured Party to modify this Agreement by amending Schedules I, II, III and IV hereto, as applicable, to include any Copyrights, Patents and Trademarks that have been included in any updated Schedules III, V, and/or VI to the Security Agreement pursuant to Section 2(g) of the Security Agreement, and to

execute and deliver any supplement hereto (in form and substance reasonably satisfactory to the Secured Party) to evidence the Secured Party's lien on any such Patents, Trademarks or Copyrights.

Section 5. SECURITY AGREEMENT. The security interests granted pursuant to this Agreement are granted in conjunction with the security interests granted by the Grantors to the Secured Party, for its benefit and the benefit of the Holders pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Secured Party with respect to the Collateral made and granted herein are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. Any rights and remedies set forth herein are without prejudice to, and in addition to, those set forth in the Security Agreement. In the event any provisions contained herein expressly conflict with any provisions in the Security Agreement covering Intellectual Property, the provisions of the Security Agreement shall control.

Section 6. REINSTATEMENT. This Agreement shall remain in full force and effect and continue to be effective should any petition be filed by or against the Grantors for liquidation or reorganization, should any Grantor become insolvent or make an assignment for the benefit of any creditor or creditors or should a receiver or trustee be appointed for all or any significant part of any Grantor's assets, and shall continue to be effective or be reinstated, as the case may be, if at any time payment and performance of the Obligations, or any part thereof, is, pursuant to applicable law, rescinded or reduced in amount, or must otherwise be restored or returned by any obligee of the Obligations, whether as a "voidable preference", "fraudulent conveyance" or otherwise, all as though such payment or performance had not been made. In the event that any payment, or any part thereof, is rescinded, reduced, restored or returned, the Obligations shall be reinstated and deemed reduced only by such amount paid and not so rescinded, reduced, restored or returned.

Section 7. NOTICES. Whenever it is provided herein that any notice, demand, request, consent, approval, declaration or other communication shall or may be given to or served upon any of the parties by any other party, or whenever any of the parties desires to give and serve upon any other party any communication with respect to this Agreement, each such notice, demand, request, consent, approval, declaration or other communication shall be in writing and shall be given in the manner, and deemed received, as provided for in the Security Agreement.

Section 8. TERMINATION OF THIS AGREEMENT. Subject to Section 6 hereof, this Agreement shall terminate upon the payment in full in cash of all Obligations (except for contingent indemnity claims for which no claim has been made).

Section 9. GOVERNING LAW. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED AND ENFORCED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK APPLICABLE TO CONTRACTS MADE AND PERFORMED IN SUCH STATE, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW.

[Signature Pages Follow]

IN WITNESS WHEREOF, each Grantor has executed this Intellectual Property Security Agreement as of the date first written above.

PLEDGOR:

BIONANO GENOMICS, INC.

By: R. Erik Holmlin
Name: R. Erik Holmlin
Title: President and Chief Executive Officer

Notice Address:

9540 Towne Centre Drive, Suite 100
San Diego, CA 92121
Telephone: (858) 888-7600
Attention: Jonathan Dixon
E-Mail: jdixon@bionano.com

GRANTORS

LINEAGEN, INC.

By: R. Erik Holmlin
Name: R. Erik Holmlin
Title: President and Chief Executive Officer

Notice Address:

9540 Towne Centre Drive, Suite 100
San Diego, CA 92121
Attention: Jonathan Dixon
E-Mail: jdixon@bionano.com

PURIGEN BIOSYSTEMS, INC.

By: R. Erik Holmlin
Name: R. Erik Holmlin
Title: President and Chief Executive Officer

Notice Address:

9540 Towne Centre Drive, Suite 100
San Diego, CA 92121
Attention: Jonathan Dixon
E-Mail: jdixon@bionano.com

BIODISCOVERY, LLC

By: Jonathan Dixon
Name: **Jonathan Dixon**
Title: **Sole Manager**

Notice Address:

9540 Towne Centre Drive, Suite 100
San Diego, CA 92121
Attention: Jonathan Dixon
E-Mail: jdixon@bionano.com

ACCEPTED AND ACKNOWLEDGED BY
SECURED PARTY:

HIGH TRAIL SPECIAL SITUATIONS LLC,
as the Secured Party

By: 
Name: Eric Helenek
Title: Authorized Signatory

Schedule I
Trademarks and Trademark Licenses

See attached.

Matter No.	Trademark Name	Country	Owner	App. No.	Filing Date	Reg No:	Reg Date	Classe	Goods
BNGEN.012T	BIONANO GENOMICS	US	BIONANO GENOMICS	85/677046	07/13/12	4518478	04/22/14	09 Int	09 Int. Nanofluidic devices, namely, solid state substrates in the nature of plates, chips and wafers, and software, both of the foregoing for genomic imaging and analysis
BNGEN.012WLB	BIONANO GENOMICS	LB	BIONANO GENOMICS	9856	11/21/12	146661	11/29/12	09 Int	09 Int. Nanofluidic devices, namely, solid state substrates in the nature of plates, chips and wafers, and software, both of the foregoing for genomic imaging and analysis
BNGEN.012WVO	BIONANO GENOMICS	WO	BIONANO GENOMICS	1147820	01/10/13	1147820	01/10/13	09 Int	09 Int. Nanofluidic devices, namely, solid state substrates in the nature of plates, chips and wafers, and software, both of the foregoing for genomic imaging and analysis
BNGEN.014IAU	IRYS	AU	BIONANO GENOMICS	1150083	01/09/13	1150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014ICN	IRYS	CN	BIONANO GENOMICS	1150083	01/09/13	1150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014IEU	IRYS	EM	BIONANO GENOMICS	1150083	01/09/13	1150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014IJP	IRYS	JP	BIONANO GENOMICS	1150083	08/07/15	1150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014IKR	IRYS	KR	BIONANO GENOMICS	1150083	08/07/15	1150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014IT	IRYS	US	BIONANO GENOMICS	85/677024	07/13/12	4544066	06/03/14	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014WGB	IRYS	GB	BIONANO GENOMICS	1150083	01/09/13	UK00801150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research;

BNGEN.014WHK	IRYS	HK	BIONANO GENOMICS	303501017	08/10/15	303501017	12/29/15	09 Int	an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014WTW	IRYS	TW	BIONANO GENOMICS	104048282	08/17/15	1766911	05/01/16	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.014WVO	IRYS	WO	BIONANO GENOMICS	1150083	01/09/13	1150083	01/09/13	09 Int	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN.015IAU	IRYSVIEW	AU	BIONANO GENOMICS	1151113	08/07/15	1151113	01/10/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015ICN	IRYSVIEW	CN	BIONANO GENOMICS	1151113	01/10/13	1151113	01/10/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015IEU	IRYSVIEW	EM	BIONANO GENOMICS	1151113	01/10/13	1151113	01/10/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015IJP	IRYSVIEW	JP	BIONANO GENOMICS	1151113	08/07/15	1151113	01/10/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015IKR	IRYSVIEW	KR	BIONANO GENOMICS	1151113	08/07/15	1151113	01/10/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015IUS	IRYSVIEW	US	BIONANO GENOMICS	85/677059	07/13/12	4452118	12/17/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015WGB	IRYSVIEW	GB	BIONANO GENOMICS	1151113	01/10/13	UK0080115 1113	01/10/13	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.015WHK	IRYSVIEW	HK	BIONANO GENOMICS	303501026	08/10/15	303501026	12/29/15	09 Int	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples

BNGEN.015WTW	IRYSVIEW	TW	BIONANO GENOMICS	104048283	08/17/15	1766912	05/01/16	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples.
BNGEN.015WVO	IRYSVIEW	WO	BIONANO GENOMICS	1151113	01/10/13	1151113	01/10/13	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples.
BNGEN.016IAU	IRYSCHIP	AU	BIONANO GENOMICS	1150576	08/07/15	1150576	01/10/13	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples.
BNGEN.016ICN	IRYSCHIP	CN	BIONANO GENOMICS	1150576	01/10/13	1150576	01/10/13	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples.
BNGEN.016IEU	IRYSCHIP	EM	BIONANO GENOMICS	1150576	01/10/13	1150576	01/10/13	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.
BNGEN.016JJP	IRYSCHIP	JP	BIONANO GENOMICS	1150576	08/07/15	1150576	08/07/15	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.
BNGEN.016IKR	IRYSCHIP	KR	BIONANO GENOMICS	1150576	08/07/15	1150576	01/10/13	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.
BNGEN.016IT	IRYSCHIP	US	BIONANO GENOMICS	85/677063	07/13/12	4502411	03/25/14	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.
BNGEN.016WGB	IRYSCHIP	GB	BIONANO GENOMICS	1150576	01/10/13	UK0080115 0576	01/10/13	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.
BNGEN.016WHK	IRYSCHIP	HK	BIONANO GENOMICS	303500991	08/10/15	303500991	12/29/15	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.
BNGEN.016WTW	IRYSCHIP	TW	BIONANO GENOMICS	104048284	08/17/15	01782428	08/01/16	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis.

BNGEN.016WWO	IRYSGHIP	WO	BIONANO GENOMICS	1150576	01/10/13	1150576	01/10/13	09 Int.	09 Int. Solid state substrates, for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN.017IAU	IRYSPREP	AU	BIONANO GENOMICS	1161517	08/07/15	1161517	08/07/15	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN.017ICN	IRYSPREP	CN	BIONANO GENOMICS	1161517	01/10/13	1161517	01/10/13	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN.017IEU	IRYSPREP	EM	BIONANO GENOMICS	1161517	01/10/13	1161517	01/10/13	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN.017JJP	IRYSPREP	JP	BIONANO GENOMICS	1161517	08/07/15	1161517	01/10/13	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN.017IKR	IRYSPREP	KR	BIONANO GENOMICS	1161517	08/07/15	1161517	08/07/15	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN.017IT	IRYSPREP	US	BIONANO GENOMICS	85/677075	07/13/12	4502412	03/25/14	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN.017WGB	IRYSPREP	GB	BIONANO GENOMICS	1161517	01/10/13	UK00801161517	01/10/13	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and

BNGEN_017WHK	IRYSPREP	HK	BIONANO GENOMICS	303501035	08/10/15	303501035	12/29/15	01 Int.	other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN_017WTW	IRYSPREP	TW	BIONANO GENOMICS	104048286	08/17/15	01776408	06/16/16	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN_017WVO	IRYSPREP	WO	BIONANO GENOMICS	1161517	01/10/13	1161517	01/10/13	01 Int.	01 Int. Chemicals used for scientific or medical research purposes, namely for polynucleotide isolation and purification; kits, namely chemicals, containing enzymes, color reagents, buffers, and other reagents for extracting and labeling polynucleotide molecules for research purposes; reagents for use in preparing polynucleotide molecules for genomic research.
BNGEN_019WCN	(IRYS in Chinese Characters)	CN	BIONANO GENOMICS	12190539	02/25/13	12190539	03/21/15	09 Int.	09 Int. Camera; chromatography apparatus for laboratory use; instrument and apparatus for physical-chemical experiment and composition analysis; diagnostic apparatus, not for medical purposes; testing apparatus not for medical purposes; DNA chips;
BNGEN_025T	BIONANO GENOMICS	US	BIONANO GENOMICS	86/050497	08/28/13	5045903	09/20/16	44 Int.	44 Int. Genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_025TD1	BIONANO GENOMICS	US	BIONANO GENOMICS	86/975215	08/28/13	4646747	11/25/14	01 Int., 05 Int., 09 Int., 10 Int., 42 Int.	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic

BNGEN_025WAU	BIONANO GENOMICS	AU	BIONANO GENOMICS	1713142	08/10/15	1713142	04/10/17	01 Int., 09 Int., 42 Int	Imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes
BNGEN_025WHK	BIONANO GENOMICS	HK	BIONANO GENOMICS	303501044	08/10/15	303501044	12/29/15	01 Int., 09 Int., 42 Int	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes
BNGEN_025WJP	BIONANO GENOMICS	JP	BIONANO GENOMICS	2015-077618	08/12/15	5924011	02/17/17	01 Int., 09 Int., 42 Int	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in

BNGEN.027TEM	BIONANO GENOMICS (stylized and/or with design)	EM	BIONANO GENOMICS	1267947	02/03/15	1267947	02/03/15	01 Int., 05 Int., 09 Int., 10 Int., 42 Int	biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes
BNGEN.027T	BIONANO GENOMICS (stylized and/or with design)	US	BIONANO GENOMICS	86/361387	08/08/14	5076021	11/08/16	01 Int., 05 Int., 09 Int., 10 Int., 42 Int	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit

BNGEN.027WU	BIONANO GENOMICS (stylized and/or with design)	AU	BIONANO GENOMICS	1717010	08/26/15	1717010	08/26/15	01 Int., 09 Int., 42 Int.	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes
BNGEN.027WGB	BIONANO GENOMICS (stylized and/or with design)	GB	BIONANO GENOMICS	1267947	02/03/15	UK00801267947	02/03/15	01 Int., 05 Int., 09 Int., 10 Int., 42 Int.	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for

BNGEN_02ZWHK	BIONANO GENOMICS (stylized and/or with design)	HK	BIONANO GENOMICS	303501053	08/10/15	303501053	12/29/15	01 Int., 09 Int., 42 Int.	use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes
BNGEN_02ZWJP	BIONANO GENOMICS (stylized)	JP	BIONANO GENOMICS	2015-081992	08/26/15	5924012	02/17/17	01 Int., 05 Int., 09 Int.,	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents,

									10 Int., 42 Int.	buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes.
BNGEN.027WKR	BIONANO GENOMICS (stylized and/or with design)	KR	BIONANO GENOMICS	45-2015-0008130	09/02/15	45-0069219	11/07/16	01 Int., 05 Int., 09 Int., 10 Int., 42 Int.	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes; containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes.	
BNGEN.027WTW	BIONANO GENOMICS (stylized)	TW	BIONANO GENOMICS	104048290	08/17/15	01991232	06/01/19	01 Int., 05 Int., 09 Int.,	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research	

									10 Int., 42 Int.	<p>purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes</p>
BNGEN.027WWO	BIONANO GENOMICS (stylized and/or with design)	WO	BIONANO GENOMICS	1267947	02/03/15	1267947	02/03/15	01 Int., 05 Int., 09 Int., 10 Int., 42 Int.	<p>01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes</p>	

BNGEN.028WCN	BIONANO GENOMICS	CN	BIONANO GENOMICS	14408014	04/18/14	14408014	05/28/15	09 Int.	09 Int. Camera (photography) ; 2, Chromatography apparatus for laboratory use; 3, Instrument and apparatus for physical-chemical experiment and composition analysis; 4, Diagnostic apparatus, not for medical purposes; 5, Testing apparatus not for medical purposes ; 6, DNA chips;
BNGEN.032IAU	IRYSOLVE	AU	BIONANO GENOMICS	1253507	08/07/15	1253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032ICN	IRYSOLVE	CN	BIONANO GENOMICS	1253507	03/11/15	1253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032IEM	IRYSOLVE	EM	BIONANO GENOMICS	1253507	03/11/15	1253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032IJP	IRYSOLVE	JP	BIONANO GENOMICS	1253507	08/07/15	1253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032IKR	IRYSOLVE	KR	BIONANO GENOMICS	1253507	08/07/15	1253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032IT	IRYSOLVE	US	BIONANO GENOMICS	86/400672	09/19/14	4708378	03/24/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032WGB	IRYSOLVE	GB	BIONANO GENOMICS	1253507	03/11/15	UK00801253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032WHK	IRYSOLVE	HK	BIONANO GENOMICS	303501008	08/10/15	303501008	12/29/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032WTW	IRYSOLVE	TW	BIONANO GENOMICS	104048293	08/17/15	1766913	05/01/16	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.032WWO	IRYSOLVE	WO	BIONANO GENOMICS	1253507	03/11/15	1253507	03/11/15	09 Int.	09 Int. Genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.043IAU	SAPHYR	AU	BIONANO GENOMICS	1362900	07/18/17	1362900	07/18/17	09 Int., 10 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes. 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis;

BNGEN_0431EM	SAPHYR	EM	BIONANO GENOMICS	1362900	07/18/17	1362900	07/18/17	09 Int., 10 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes. 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis.
BNGEN_0431JP	SAPHYR	JP	BIONANO GENOMICS	1362900	07/18/17	1362900	07/18/17	10 Int.	10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis.
BNGEN_0431KR	SAPHYR	KR	BIONANO GENOMICS	1362900	07/18/17	1362900	07/18/17	09 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes.
BNGEN_0431T	SAPHYR	US	BIONANO GENOMICS	87/314801	01/26/17	5434448	03/27/18	09 Int., 10 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes. 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis.
BNGEN_043WGB	SAPHYR	GB	BIONANO GENOMICS	1362900	07/18/17	UK00801362900	07/18/17	09 Int., 10 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes. 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis.
BNGEN_043WHK	SAPHYR	HK	BIONANO GENOMICS	304212684	07/19/17	304212684	02/09/18	09 Int., 10 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes. 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis.
BNGEN_043WTW	SAPHYR	TW	BIONANO GENOMICS	106044750	07/20/17	01916579	06/01/18	09 Int., 10 Int.	09 Int. An imaging apparatus and software for genomic analysis in scientific or medical research; an imaging system, namely, an imaging apparatus and software sold as a unit, for genomic analysis in scientific or medical research; software for genomic analysis used for medical diagnostic purposes. 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis.

BNGEN.043WWO	SAPHYR	WO	BIONANO GENOMICS	1362900	07/18/17	1362900	07/18/17	09 Int., 10 Int.	Imaging system, namely, an imaging apparatus and software sold as a unit for genomic analysis; a medical imaging apparatus for genomic analysis
BNGEN.044T	BIONANO	US	BIONANO GENOMICS	NEW	NEW	NA	NA	44	Instructions for filing included classes: 1,5,9,10,42,44
BNGEN.045IAU	SAPHYR CHIP	AU	BIONANO GENOMICS	1363411	07/18/17	1363411	07/18/17	09 Int., 10 Int.	09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN.045ICN	SAPHYR CHIP	CN	BIONANO GENOMICS	1363411	07/18/17	1363411	07/18/17	09 Int., 10 Int.	09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN.045IEM	SAPHYR CHIP	EM	BIONANO GENOMICS	1363411	07/18/17	1363411	07/18/17	09 Int., 10 Int.	09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis

BNGEN_0451JP	SAPHYR CHIP	JP	BIONANO GENOMICS	1363411	07/18/17	1363411	07/18/17	09 Int., 10 Int.	having a pattern of channels to facilitate genomic imaging and analysis 09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN_0451KR	SAPHYR CHIP	KR	BIONANO GENOMICS	1363411	07/18/17	1363411	07/18/17	09 Int., 10 Int.	having a pattern of channels to facilitate genomic imaging and analysis 09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN_0451US	SAPHYR CHIP	US	BIONANO GENOMICS	87/314787	01/26/17	5434447	03/27/18	09 Int., 10 Int.	having a pattern of channels to facilitate genomic imaging and analysis 09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN_045WGB	SAPHYR CHIP	GB	BIONANO GENOMICS	1363411	07/18/17	UK00801363411	07/18/17	09 Int., 10 Int.	having a pattern of channels to facilitate genomic imaging and analysis 09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis;10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis

BNGEN_045WHK	SAPHYR CHIP	HK	BIONANO GENOMICS	304212666	07/19/17	304212666	02/09/18	09 Int., 10 Int.	samples; disposable substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN_045WTW	SAPHYR CHIP	TW	BIONANO GENOMICS	106044749	07/20/17	01916578	06/01/18	09 Int., 10 Int.	09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis; 10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN_045WVO	SAPHYR CHIP	WO	BIONANO GENOMICS	1363411	07/18/17	1363411	07/18/17	09 Int., 10 Int.	09 Int. solid state substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in scientific or medical research, having a pattern of channels to facilitate genomic imaging and analysis; 10 Int. solid state substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels for confining and linearizing biopolymer samples; disposable substrates, namely, plates, chips, and wafers for use in clinical medicine, having a pattern of channels to facilitate genomic imaging and analysis
BNGEN_046IAU	OPTIDNA	AU	BIONANO GENOMICS	1389541	07/18/17	1389541	07/18/17	01 Int., 05 Int.	01 Int. polynucleotide isolation, purification, and labeling kit including a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents or combinations thereof, used for scientific or medical research purposes; kits for extracting and labeling polynucleotide molecules for research purposes, containing a reaction preparation device and slides, enzymes, color reagents, buffers, and

									other reagents, or combinations thereof, reagents for use in preparing polynucleotide molecules for genomic research; reaction preparation device and slides for use in preparing polynucleotide molecules for genomic research; diagnostic kits containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof, for extracting and labeling polynucleotide molecules05 Int. reagents, reaction preparation device and slides for use in clinical medicine for preparing polynucleotide molecules for genomic analysis
BNGEN_0461CN	OPTIDNA	CN	BIONANO GENOMICS	1389541	07/18/17	1389541	07/18/17	01 Int., 05 Int.	01 Int. polynucleotide isolation, purification, and labeling kit including a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents or combinations thereof, used for scientific or medical research purposes; kits for extracting and labeling polynucleotide molecules for research purposes, containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof, reagents for use in preparing polynucleotide molecules for genomic research; reaction preparation device and slides for use in preparing polynucleotide molecules for genomic research; diagnostic kits containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof, for extracting and labeling polynucleotide molecules05 Int. reagents, reaction preparation device and slides for use in clinical medicine for preparing polynucleotide molecules for genomic analysis
BNGEN_0461EM	OPTIDNA	EM	BIONANO GENOMICS	1389541	07/18/17	NA	NA	01 Int., 05 Int.	01 Int. polynucleotide isolation, purification, and labeling kit including a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents or combinations thereof, used for scientific or medical research purposes; kits for extracting and labeling polynucleotide molecules for research purposes, containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof, reagents for use in preparing polynucleotide molecules for genomic research; reaction preparation device and slides for use in preparing polynucleotide molecules for genomic research; diagnostic kits containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof, for extracting and labeling polynucleotide molecules05 Int. reagents, reaction preparation device and slides for use in clinical medicine for preparing polynucleotide molecules for genomic analysis

BNGEN.046WWO	OPTIDNA	WO	BIONANO GENOMICS	1389541	07/18/17	1389541	07/18/17	01 Int., 05 Int.	01 Int. polynucleotide isolation, purification, and labeling kit including a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents or combinations thereof, used for scientific or medical research purposes; kits for extracting and labeling polynucleotide molecules for research purposes, containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof; reagents for use in preparing polynucleotide molecules for genomic research; reaction preparation device and slides for use in preparing polynucleotide molecules for genomic research; diagnostic kits containing a reaction preparation device and slides, enzymes, color reagents, buffers, and other reagents, or combinations thereof, for extracting and labeling polynucleotide molecules; 05 Int. reagents, reaction preparation device and slides for use in clinical medicine for preparing polynucleotide molecules for genomic analysis
BNGEN.047T	BIONANO ACCESS	US	BIONANO GENOMICS	87/375426	03/17/17	5439542	04/03/18	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.050WCN	SAPHYR	CN	BIONANO GENOMICS	36863713	03/15/19	36863713	08/21/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.051ZTCN	SAPHER	CN	BIONANO GENOMICS	9703086	07/11/11	9703086	12/07/12	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052IAU	BIONANO ENFOCUS	AU	BIONANO GENOMICS	1532359	04/29/20	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052IEM	BIONANO ENFOCUS	EM	BIONANO GENOMICS	1532359	04/29/20	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052IGB	BIONANO ENFOCUS	GB	BIONANO GENOMICS	1532359	04/29/20	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052JJP	BIONANO ENFOCUS	JP	BIONANO GENOMICS	1532359	04/29/20	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052IKR	BIONANO ENFOCUS	KR	BIONANO GENOMICS	1532359	04/29/20	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052T	BIONANO ENFOCUS	US	BIONANO GENOMICS	88/703905	11/22/19	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by

BNGEN.052WGB	BIONANO ENFOCUS	GB	BIONANO GENOMICS	1532359	04/29/20	UK0080153 2359	04/29/20	09 Int.	an imaging apparatus for the purpose of studying biopolymer samples 09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052WHK	BIONANO ENFOCUS	HK	BIONANO GENOMICS	305262967	05/04/20	305262967	09/28/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052WTW	BIONANO ENFOCUS	TW	BIONANO GENOMICS	109027593	04/30/20	02110831	01/01/21	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.052WWO	BIONANO ENFOCUS	WO	BIONANO GENOMICS	1532359	04/29/20	1532359	04/29/20	09 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN.054IAU	CYTOPIA	AU	BIONANO GENOMICS	1663607	1/27/2022	1663607	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN.054ICA	CYTOPIA	CA	BIONANO GENOMICS	1663607	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN.054ICN1	CYTOPIA	CN 1	BIONANO GENOMICS	1663607	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website

BNGEN_054IKR	CYTOPIA	KR	BIONANO GENOMICS	1663607	1/27/2022	NA	NA	10 Int., 44 Int.	development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN_054IT	CYTOPIA	IT	BIONANO GENOMICS	90/853901	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN_054IWWO	CYTOPIA	WO	BIONANO GENOMICS	1663607	1/27/2022	1663607	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN_057T	FIRSTSTEPDX	US	BIONANO GENOMICS	85/095105	7/28/10	40395225	10/11/11	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int.

BNGEN_064T	BIONANO LABORATORIES	US	BIONANO GENOMICS	97/024689	9/3/2021	NA	NA	10 Int., 44 Int.	Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN_054T	CYTOPIA	US	BIONANO GENOMICS	90853901	5/25/23	ALLOWED	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, and medical indicator marker and labels, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing information related to medical testing services via an internet website for medical professionals and medical patients; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.
BNGEN_056T	LINEAGEN	US	BIONANO GENOMICS	78/545440	1/11/2005	3143447	9/12/2006	42 Int.	42 Int. Medical, pharmaceutical, biotechnology, and scientific research and consulting services in the field of genetics, namely, genetic research, bio-marker discovery research, and pheno-typing for identifying, testing and developing diagnostics and treatments for human diseases and human disorders
BNGEN_055T	NEXSTEPDX	US	BIONANO GENOMICS	90/853825	7/28/21	Allowed	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development. 44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing

BNGEN_055AU	NEXSTEPDX	AU	BIONANO GENOMICS	1649722	1/27/2022	1649722	NA	10 Int., 44 Int.	services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_055CA	NEXSTEPDX	CA	BIONANO GENOMICS	1649722	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_055CN	NEXSTEPDX	CN	BIONANO GENOMICS	1649722	1/27/2022	1649722	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_055EM	NEXSTEPDX	EM	BIONANO GENOMICS	1649722	1/27/2022	1649722	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for

BNGEN.055GB	NEXTSTEPDX	GB	BIONANO GENOMICS			1/27/2022	1649722	NA	NA	10 Int., 44 Int.	medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.055IT	NEXTSTEPDX	IT	BIONANO GENOMICS			1/27/2022	1649722	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.055JP	NEXTSTEPDX	JP	BIONANO GENOMICS			1/27/2022	1649722	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.055KR	NEXTSTEPDX	KR	BIONANO GENOMICS			1/27/2022	1649722	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development

BNGEN.065T	NEXTSTEPDX PLUS	US	BIONANO GENOMICS	90/853891	7/28/21	Allowed	NA	10 Int., 44 Int.	and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.065AU	NEXTSTEPDX PLUS	AU	BIONANO GENOMICS	1649721	1/27/2022	1649721	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.065CA	NEXTSTEPDX PLUS	CA	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.065CN1	NEXTSTEPDX PLUS	CN	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	10 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging,

BNGEN.065CN2	NEXTSTEPDX PLUS	CN	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	44 Int.	forms and instructions, for molecular and genetic testing for disorders of childhood development
BNGEN.065EM	NEXTSTEPDX PLUS	EM	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	10 Int., 44 Int.	44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.065GB	NEXTSTEPDX PLUS	GB	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.065JP	NEXTSTEPDX PLUS	JP	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.065KR	NEXTSTEPDX PLUS	KR	BIONANO GENOMICS	1649721	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection

BNGEN.065WVO	NEXSTEPDX PLUS	WO	BIONANO GENOMICS	1649721	1/27/2022	1649721	NA	10 Int., 44 Int.	tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.059T	WELCOME TO CYTOPIA	US	BIONANO GENOMICS	90/853905	7/28/21	Allowed	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.059IAU	WELCOME TO CYTOPIA	AU	BIONANO GENOMICS	1649720	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes

BNGEN.0591CA	WELCOME TO CYTOPIA	CA	BIONANO GENOMICS	1649720	1/27/2022	1649720	NA	NA	10 Int., 44 Int.	mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes 10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN.0591CN1	WELCOME TO CYTOPIA	CN	BIONANO GENOMICS	1649720	1/27/2022	NA	NA	10 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes	
BNGEN.0591CN2	WELCOME TO CYTOPIA	CN	BIONANO GENOMICS	1649720	1/27/2022	NA	NA	44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes	
BNGEN.0591EM	WELCOME TO CYTOPIA	EM	BIONANO GENOMICS	1649720	1/27/2022	NA	NA	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing	

BNGEN_059IGB	WELCOME TO CYTOPIA	GB	BIONANO GENOMICS	1649720	1/27/2022	NA	NA	10 Int., 44 Int.	services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_059IJP	WELCOME TO CYTOPIA	JP	BIONANO GENOMICS	1649720	1/27/2022			10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_059IKR	WELCOME TO CYTOPIA	KR	BIONANO GENOMICS	1649720	1/27/2022			10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet; genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes
BNGEN_059WVO	WELCOME TO CYTOPIA	WO	BIONANO GENOMICS	1649720	1/27/2022	1649720	01/27/23	10 Int., 44 Int.	10 Int. Medical specimen collection and transportation kit comprised of blood collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for molecular and genetic testing for disorders of childhood development44 Int. Medical testing services, namely, molecular and genetic testing for disorders of childhood development; providing an internet website for

BNGEN_067T	VIA	AU	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067CA	VIA	CA	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067CN	VIA	CN	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067IN	VIA	IN	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067EM	VIA	EM	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067GB	VIA	GB	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067JP	VIA	JP	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067SG	VIA	SG	BIONANO GENOMICS	306192766	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067KR	VIA	KR	BIONANO GENOMICS	1724819	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_067HK	VIA	HK	BIONANO GENOMICS	New	3/10/2023			9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068T	VARIANT INTELLIGENC E APPLICATION	US	BIONANO GENOMICS	97/593098	9/15/22	NA	NA	9 Int., 42 Int., 44 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068AU	VARIANT INTELLIGENC	AU	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int.	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging

BNGEN_068CA	E APPLICATION VARIANT INTELLIGENC E APPLICATION	CA	BIONANO GENOMICS	1724455	3/10/2023			Int.44 Int.	apparatus for the purpose of studying biopolymer samples
BNGEN_068IN	VARIANT INTELLIGENC E APPLICATION	IN	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068EM	VARIANT INTELLIGENC E APPLICATION	EM	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068GB	VARIANT INTELLIGENC E APPLICATION	GB	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068JP	VARIANT INTELLIGENC E APPLICATION	JP	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068SG	VARIANT INTELLIGENC E APPLICATION	SG	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068KR	VARIANT INTELLIGENC E APPLICATION	KR	BIONANO GENOMICS	1724455	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_068HK	VARIANT INTELLIGENC E APPLICATION	HK	BIONANO GENOMICS	306192793	3/10/2023			9 Int., 42 Int., Int.44	09 Int. genomic data analysis software; software for interpreting and analyzing data generated by an imaging apparatus for the purpose of studying biopolymer samples
BNGEN_XXX	OGM-DX	US	BIONANO GENOMICS	97896041	4/19/23	NA	NA	10 Int., 044 Int.	Class 010: Medical specimen collection and transportation kit comprised of collection tubes, foam container for tubes, absorbent pad, biohazard bag, marker, labels, mail packaging, forms and instructions, for testing of patient samples for medical and/or diagnostic purposes Class 044: Medical testing services, namely, genomic mapping, genomic imaging, and genomic analysis services for medical diagnostic purposes.; providing an internet website for medical professionals and medical patients featuring information related to medical testing services; providing molecular and genetic medical testing results via the internet

BNGEN.XXX	BIONANO	US	BIONANO GENOMICS	97672600	11/10/22	NA	NA	01 Int., 05 Int., 09 Int., 10 Int., 42 Int	01 Int. Reagents for use in preparing molecules for genomic research and analysis; a kit for extracting and labeling biopolymers for research purposes, containing enzymes, color reagents, buffers, and other reagents 05 Int. Reagents for use in clinical medicine for preparing molecules for genomic analysis; a medical diagnostic kit containing enzymes, color reagents, buffers, and other reagents for extracting and labeling biopolymers 09 Int. An imaging system, namely, an imaging apparatus and software, for the analysis of biopolymer samples in scientific or medical research; software used in the analysis of biopolymer samples for medical diagnostic purposes; software used in the analysis of biopolymer samples for scientific or medical research; an imaging apparatus for use in the analysis of biopolymer samples in scientific or medical research 10 Int. A medical diagnostic imaging system, namely, an imaging apparatus and software sold as a unit and used in the analysis of biopolymer samples; a medical diagnostic imaging apparatus used in the analysis of biopolymer samples 42 Int. product research and development and consulting services for others in the fields of biopolymer imaging and analysis; genomic mapping, genomic imaging, and genomic analysis services for scientific research purposes
BNGEN.XXX	PURIGEN BIOSYSTEMS	US	PURIGEN BIOSYSTEMS	88725582	12/12/19	6069516	6/2/2020	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074T	IONIC	US	PURIGEN BIOSYSTEMS	88657077	10/16/19	6039030	4/21/20	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074AU	IONIC	AU	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.

BNGEN.074CA	IONIC	CA	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074CN	IONIC	CN	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074EM	IONIC	EM	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074GB	IONIC	GB	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074JP	IONIC	JP	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074SG	IONIC	SG	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.074WVO	IONIC	WO	PURIGEN BIOSYSTEMS	1531982	4/16/2022	NA	NA	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that

	IONIC (stylized)	US	PURIGEN BIOSYSTEMS	NEW		NA	NA	9 Int.	utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.XXX	NUCLEIC ACID PURIFICATION – PURE AND SIMPLE	US	PURIGEN BIOSYSTEMS	88725592	12/12/19	6069517	6/2/2020	9 Int.	Class 9. Nucleic acid extraction and purification system, for scientific research purposes, the aforementioned system comprised of laboratory equipment, namely, a laboratory apparatus that utilizes isotachopheresis to extract, purify, isolate and concentrate nucleic acid from biological samples incorporating a touchscreen, downloadable software, and nucleic acid fluidics chips.
BNGEN.XXX	BIODISCOVERY	US	BIODISCOVERY	97024090	9/13/2021	6865656	10/4/2022	9 Int., 42 Int.	Class 9. Downloadable computer software in the field of genomic bioinformatics for the retrieval, correlation, processing, storing, analysis, visualization, and interpretation of genomic data. Class 42: Software as a service (SAAS) featuring computer software in the field of genomic bioinformatics for the retrieval, correlation, processing, storing, analysis, visualization, and interpretation of genomic data
BNGEN.058WCA	PRISMIX	CA	LINEAGEN	1832639	4/13/17	TMA10354 97	7/3/2019	42 Int., 44 Int.	Class 42: Scientific research in the field of genetics, namely, analysis of relationships between genetic variants and neurodevelopmental disorders Class 44: Providing medical analysis services in the nature of relationships between genetic variants and neurodevelopmental disorders for identifying, testing, and developing diagnostic tools and treatments for such disorders
BNGEN.058T	PRISMIX	US	LINEAGEN	87/206673	10/18/2016	5361061	12/19/2017	42 Int., 44 Int.	Class 42: Scientific research in the field of genetics, namely, analysis of relationships between genetic variants and neurodevelopmental disorders Class 44: Providing medical analysis services in the nature of relationships between genetic variants and neurodevelopmental disorders for identifying, testing, and developing diagnostic tools and treatments for such disorders

Schedule II
Patents and Patent Licenses

See attached.

Code/Matter No.	Other Matter No.	Country	Serial Number	Application Date	Patent Number	Issue/ Grant Date	Expiration Date	Title	Assignee
1		AU	2007338862	2007-07-19	2007338862	2014-05-24	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, ll
1		CA	2,658,122	2007-07-19	2658122	2014-09-02	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, ll
1		CN	201310054745.1	2007-07-19	103203256	2015-09-23	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, ll
1		EP	21192850.2	2007-07-19				NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, ll
1		JP	2014-089510	2007-07-19	6030599	2016-10-28	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, ll
1		SG	201105244-6	2007-07-19	173398	2015-03-12	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, Inc.
1		US	12/374,141	2007-07-19	9061901	2015-06-23	2029-08-06	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, Inc.
1		US	14/712,816	2015-05-14	9845238	2017-12-19	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, Inc.
1		US	15/801,081	2017-11-01	10676352	2020-06-09	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, Inc.
1		US	16/889,256	2020-06-01	11529630	2022-12-20	2027-07-19	NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, Inc.
1		US	18/056,074	2022-11-16				NANONOZZLE DEVICE ARRAYS: THEIR PREPARATION AND USE FOR MACROMOLECULAR ANALYSIS	Bionano Genomics, Inc.
2		AU	2008232616	2008-03-28	2008232616	2014-11-20	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCHANNEL ARRAYS	Bionano Genomics, Inc.
2		CA	2,682,275	2008-03-28	2682275	2017-05-09	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCHANNEL ARRAYS	Bionano Genomics, Inc.
2		CA	2,964,611	2008-03-28	2964611	2021-06-01	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCHANNEL ARRAYS	Bionano Genomics, Inc.
2		CN	200880017550.7	2008-03-28	101765462	2013-06-05	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCHANNEL ARRAYS	Bionano Genomics, Inc.

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2	EP (DE, GB, FR, SE)	08744609.2	2008-03-28	2136922	2012-12-05	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	JP	2010-501259	2008-03-28	5491378	2014-03-07	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	JP	2013-258107	2008-03-28	5860574	2015-12-25	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	KR	1020097022447	2008-03-28	1015227410000	2015-05-18	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	SG	2012020822	2008-03-28	179524	2015-09-23	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	US	12/057,987	2008-03-28	8722327	2014-05-13	2031-07-31	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	US	14/195,474	2014-03-03	9310376	2016-04-12	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
2	US	15/062,622	2016-03-07	10000804	2018-06-19	2028-03-28	METHODS OF MACROMOLECULAR ANALYSIS USING NANOCANNEL ARRAYS	Bionano Genomics, ll
3	AU	2009267086	2009-06-30	2009267086	2016-04-28	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.
3	AU	2016202242	2009-06-30	2016202242	2018-04-05	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.
3	CA	2,729,159	2009-06-30	2729159	2020-01-14	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.
3	CA	3,062,190	2009-06-30	3062190	2023-03-28	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.
3	EP (DE, FR, GB)	09774334.8	2009-06-30	2318547	2018-05-30	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.
3	EP (DE, FR, GB)	13179160.0	2009-06-30	2664677	2018-05-30	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.
3	JP	2011-516813	2009-06-30	5730762	2015-04-17	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, Inc.

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3	JP	2015-078505	2009-06-30	6208166	2017-09-15	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, ll
3	US	13/001,697	2009-06-30	8628919	2014-01-14	2029-10-19	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, ll
3	US	13/765,353	2013-02-12	9536041	2017-01-03	2029-10-07	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, ll
3	US	15/381,787	2016-12-16	10435739	2019-10-08	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, ll
3	US	16/593,915	2019-10-04	10995364	2021-05-04	2029-06-30	METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, ll
3	US	17/210,298	2021-03-23				METHODS AND DEVICES FOR SINGLE-MOLECULE WHOLE GENOME ANALYSIS	Bionano Genomics, ll
4	AU	2009256064	2009-06-05	2009256064	2015-08-13	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	AU	2015205826	2009-06-05	2015205826	2017-11-09	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	CA	2,727,095	2009-06-05	2727095	2020-01-07	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	CA	3,060,930	2009-06-05	3060930	2022-03-22	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	CN	200980130482.X	2009-06-05	104359874	2014-09-24	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	CN	201410462892.7	2009-06-05	102369059	2018-07-06	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	EP	09759520.1	2009-06-05				INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	HK	11109208.6	2009-06-05				INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.
4	HK	15107980.0	2015-08-18	HK1207418	2019-09-27	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, Inc.

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4	KR	10-2016-7001826	2009-06-05	10-1767125	2017-08-04	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, ll
4	SG	201008920-9	2009-06-05	167147	2013-07-31	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, ll
4	US	12/996,410	2009-06-05	9533879	2017-01-03	2032-08-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, ll
4	US	15/385,302	2016-12-20	10654715	2020-05-19	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, ll
4	US	16/864,551	2020-05-01	11292713	2022-04-05	2029-06-05	INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, ll
4	US	17/700,299	2022-03-21				INTEGRATED NANOFIUIDIC ANALYSIS DEVICES, FABRICATION METHODS AND ANALYSIS TECHNIQUES	Bionano Genomics, ll
5	AU	2009316628	2009-11-18	2009316628	2016-09-29	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	CA	2,744,064	2009-11-18	2744064	2021-09-14	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	CN	200980154567.1	2009-11-18	108467887	2014-11-26	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	CN	201410584764.X	2009-11-18	104372080	2018-03-30	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	CN	201810153810.9	2009-11-18				POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	EP (DE, FR, GB)	09760398.9	2009-11-18	2370594	2014-01-08	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	HK	12105207.4	2012-05-31	HK1166107	2015-09-25	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	HK	15108141.4	2015-08-21	HK1207404	2019-07-19	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	HK	19120123.5	2019-02-27				POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	JP	2011-537585	2009-11-18	5846703	2015-12-04	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	SG	201103550-8	2009-11-18	171325	2013-11-29	2029-11-18	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	US	13/129,634	2009-11-18	9181578	2015-11-10	2031-10-25	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.
5	US	14/877,818	2015-10-07	10000803	2018-06-19	2030-03-04	POLYNUCLEOTIDE MAPPING AND SEQUENCING	Bionano Genomics, Inc.

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6	AU	2011316989	2011-10-20	2011316989	2016-09-29	2031-10-20	SYSTEMS AND METHODS FOR ASSESSING BIOMOLECULE CHARACTERISTICS	Bionano Genomics, ll
6	CN	201180060380.2	2011-10-20	103443290	2016-06-08	2031-10-20	SYSTEMS AND METHODS FOR ASSESSING BIOMOLECULE CHARACTERISTICS	Bionano Genomics, ll
6	CN	201610365650.5	2011-10-20	106048000	2020-05-01	2031-10-20	SYSTEMS AND METHODS FOR ASSESSING BIOMOLECULE CHARACTERISTICS	Bionano Genomics, ll
6	HK	14105511.3	2014-06-11	HK1192287	2017-09-01	2031-10-20	SYSTEMS AND METHODS FOR ASSESSING BIOMOLECULE CHARACTERISTICS	Bionano Genomics, ll
6	HK	17104096.6	2017-04-21	HK1230667	2021-03-19	2031-10-20	SYSTEMS AND METHODS FOR ASSESSING BIOMOLECULE CHARACTERISTICS	Bionano Genomics, ll
6	SG	10201508373U	2011-10-20	10201508373U	2022-04-08	2031-10-20	SYSTEMS AND METHODS FOR ASSESSING BIOMOLECULE CHARACTERISTICS	Bionano Genomics, ll
7	CN	201080043518.3	2010-09-27	102666946	2017-09-05	2030-09-27	NANOCHANNEL ARRAYS AND NEAR-FIELD ILLUMINATION DEVICES...	Bionano Genomics, Inc.
7	US	13/498,846	2010-09-27	9725315	2017-08-08	2034-07-31	NANOCHANNEL ARRAYS AND NEAR-FIELD ILLUMINATION DEVICES...	Bionano Genomics, Inc.
8	AU	2020201280	2014-02-03	2020201280	2022-07-21	2034-02-03	METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
8	CA	2,900,054	2014-02-03				METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
8	CN	201480007595.1	2014-02-03				METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
8	EP (DE, FR, GB)	14748636.9	2014-02-03	2954069	2020-11-11	2034-02-03	METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
8	HK	16105786.9	2016-05-20				METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
8	JP	2015-556985	2014-02-03	6475171	2019-02-08	2034-02-03	METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
8	US	14/765,537	2015-08-03				METHODS FOR SINGLE-MOLECULE ANALYSIS	Bionano Genomics, Inc.
9	CA	2,901,460	2014-02-19				CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, Inc.
9	CN	201480009730.6	2014-02-19	105229168	2020-07-17	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, Inc.
9	EP (DE, FR, GB)	14753475.4	2014-02-19	2959015	2020-11-04	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, Inc.
9	HK	16107465.3	2014-02-19	1219511	2021-04-16	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, Inc.
9	JP	2015-558929	2014-02-19	6542676	2019-06-21	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, Inc.

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9	JP	2019-110164	2014-02-19	6928032	2021-08-10	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, ll
9	US	14/768,422	2015-08-17	9809855	2017-11-07	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, ll
9	US	15/795,847	2017-10-27	10669586	2020-06-02	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, ll
9	US	16/887,679	2020-05-29	11359244	2022-06-14	2034-02-19	CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, ll
9	US	17/741,708	2022-05-11				CHARACTERIZATION OF MOLECULES IN NANOFLUIDICS	Bionano Genomics, ll
10	CN	201480044219.X	2014-06-09	105683393	2020-08-07	2034-06-09	ANALYSIS OF POLYNUCLEOTIDES	Bionano Genomics, ll
10	HK	16113120.8	2014-06-09	HK1225072	2021-04-23	2034-06-09	ANALYSIS OF POLYNUCLEOTIDES	Bionano Genomics, ll
10	JP	2016-519575	2014-06-09	6556705	2019-07-19	2034-06-09	ANALYSIS OF POLYNUCLEOTIDES	Bionano Genomics, ll
10	US	14/897,213	2015-12-09				ANALYSIS OF POLYNUCLEOTIDES	Bionano Genomics, ll
11	CN	201580009351.1	2015-02-17	106029909	2021-02-02	2035-02-17	IMPROVED METHODS OF DETERMINING NUCLEIC ACID STRUCTURAL INFORMATION	Bionano Genomics, Inc.
11	HK	17103327.9	2015-02-17	HK1229856	2021-12-10	2035-02-17	IMPROVED METHODS OF DETERMINING NUCLEIC ACID STRUCTURAL INFORMATION	Bionano Genomics, Inc.
11	US	15/117,699	2016-08-09				IMPROVED METHODS OF DETERMINING NUCLEIC ACID STRUCTURAL INFORMATION	Bionano Genomics, Inc.
11	US	16/909,884	2020-06-23				IMPROVED METHODS OF DETERMINING NUCLEIC ACID STRUCTURAL INFORMATION	Bionano Genomics, Inc.
12	CN	201580055371.2	2015-08-31	107073472	2021-03-12	2035-08-31	PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, Inc.
12	EP	15763711.7	2015-08-31				PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, Inc.
12	HK	18102500.9	2015-08-31	HK1243029	2021-12-17	2035-08-31	PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, Inc.
12	JP	2017-512288	2015-08-31	6761797	2020-09-09	2035-08-31	PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, Inc.
12	SG	10201901839T	2015-08-31				PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, Inc.

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12		US	15/507,416	2015-08-31	11291999	2022-04-05	2036-04-02	PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, ll
12		US	17/690,961	2022-03-09				PHOTOCLEAVAGE METHOD AND APPARATUS TO CLEAN FLUIDIC DEVICES	Bionano Genomics, ll
13		CN	201580016272.3	2015-02-24	106164295	2020-08-11	2035-02-24	REDUCTION OF BIAS IN GENOMIC COVERAGE MEASUREMENTS	Bionano Genomics, ll
13		HK	17104492.6	2015-02-24	HK1231128	2021-04-30	2035-02-24	REDUCTION OF BIAS IN GENOMIC COVERAGE MEASUREMENTS	Bionano Genomics, ll
13		US	15/117,689	2015-02-24	10844424	2020-11-24	2036-02-01	REDUCTION OF BIAS IN GENOMIC COVERAGE MEASUREMENTS	Bionano Genomics, ll
13		US	17/100,062	2020-11-20	11773429	2023-10-03	2036-01-18	REDUCTION OF BIAS IN GENOMIC COVERAGE MEASUREMENTS	Bionano Genomics, ll
13		US	18/453,675	2023-08-22				REDUCTION OF BIAS IN GENOMIC COVERAGE MEASUREMENTS	Bionano Genomics, ll
14		CA	3104649	2019-06-24				LABELING OF DNA	Bionano Genomics, Inc.
14		CN	201980042566.1	2019-06-24				LABELING OF DNA	Bionano Genomics, Inc.
14		EP	19739487.7	2019-06-24	3810801	2022-09-28	2039-06-24	LABELING OF DNA	Bionano Genomics, Inc.
14		EP	22197543.6	2019-06-24				LABELING OF DNA	Bionano Genomics, Inc.
14		HK	62021041180.2	2019-06-24	40053669	2023-04-21	2039-06-24	LABELING OF DNA	Bionano Genomics, Inc.
14		US	15/734,918	2019-06-24				LABELING OF DNA	Bionano Genomics, Inc.
15		US	16/951,470	2020-11-18				DIAGNOSIS AND PREDICTION OF AUTISM SPECTRUM DISORDER	Lineagen, Inc.
16		PCT	PCT/US2023/068138	2023-06-08				DETERMINING B-ALLELE FREQUENCY VALUES FROM OPTICAL GENOME MAPPING DATA	Bionano Genomics, Inc.
17		US	63/578,983	2023-08-26				ARTIFICIAL NEURAL NETWORK APPROACH FOR OPTICAL GENOME MAPPING DATA ANALYSIS	Bionano Genomics, Inc.
18		US	63/414,852	2022-10-10				MOTION PLATFORM	Bionano Genomics, Inc.
18		US	63/515,334	2023-07-24				MOTION PLATFORM	Bionano Genomics, Inc.
19		US	63/414,858	2022-10-10				MOTION PLATFORM CONTROL	Bionano Genomics, Inc.
19		US	63/515,343	2023-07-25				MOTION PLATFORM CONTROL	Bionano Genomics, Inc.
20		US	63/418,916	2022-10-24				SAMPLE PREPARATION FOR OPTICAL GENOME MAPPING	Bionano Genomics, Inc.

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21		US	63/418,918	2022-10-24					LABELING AND STAINING OF SAMPLES FOR OPTICAL GENOME MAPPING	Bionano Genomics, ll
22		US	63/476,907	2022-12-22					PREPARATION OF SAMPLES FOR OPTICAL GENOME MAPPING	Bionano Genomics, ll
23		US	63/476,913	2022-12-22					COMPOSITIONS AND METHODS FOR LABELING AND STAINING SAMPLES FOR OPTICAL GENOME MAPPING	Bionano Genomics, ll
24		US	63/435,272	2022-12-25					OPTICAL GENOME MAPPING CARTRIDGES	Bionano Genomics, ll
24		US	63/516,513	2023-07-29					OPTICAL GENOME MAPPING CARTRIDGES	Bionano Genomics, ll
25		US	63/435,273	2022-12-25					INSTRUMENTATION OF OPTICAL GENOME MAPPING SYSTEMS	Bionano Genomics, ll
25		US	63/516,523	2023-07-30					INSTRUMENTATION OF OPTICAL GENOME MAPPING SYSTEMS	Bionano Genomics, ll
26		US	63/435,274	2022-12-25					OPTICAL GENOME MAPPING SYSTEM	Bionano Genomics, ll
26		US	63/516,531	2023-07-30					OPTICAL GENOME MAPPING SYSTEM	Bionano Genomics, ll
27		US	29/880,143	2023-07-18					CARTRIDGE FOR OPTICAL GENOME MAPPING	Bionano Genomics, Inc.
28		US	29/880,144	2023-07-18					CARTRIDGE FOR OPTICAL GENOME MAPPING	Bionano Genomics, Inc.
29		US	29/880,145	2023-07-18					CARTRIDGE FOR OPTICAL GENOME MAPPING	Bionano Genomics, Inc.
30		US	29/880,146	2023-07-18					CARTRIDGE FOR OPTICAL GENOME MAPPING	Bionano Genomics, Inc.
31	BNAN-002AU	Australia	2017212754	01/28/2017			(1/28/2037)		ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002CA	Canada	3012680	01/28/2017			(1/28/2037)		ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002CN	China	2017800220501	01/28/2017			1/28/2037		ISOTACHOPHORESIS FOR NUCLEIC ACID PURIFICATION	Purigen Biosystems, Inc.
31	BNAN-002CN DIV	China	202211648930.9	01/28/2017			1/28/2037		ISOTACHOPHORESIS FOR NUCLEIC ACID PURIFICATION	Purigen Biosystems, Inc.
31	BNAN-002CON	US	16046560	07/26/2018	10822603	11/03/2020	8/18/2037		ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002CON2	US	16175500	10/30/2018	10415030	09/17/2019	1/28/2037		ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.

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31	BNAN-002CON3	US	16997614	08/19/2020	11674132	6/13/2023	8/6/2037	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002CON4	US	18141641	05/01/2023				ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002EP	European Patent Office	177450574	01/28/2017	3408389	03/10/2021	1/28/2037	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002EPDIV	European Patent Office	211611959	01/28/2017			(1/28/2037)	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002JP	Japan	2018559168	01/28/2017	7277050	05/10/2023	1/28/2037	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002JPDIV	Japan	2022100462	01/28/2017			(1/28/2037)	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002SG	Singapore	11201806190	01/28/2017	11201806190	07/05/2022	1/28/2037	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
31	BNAN-002SGDIV	Singapore	102022250075T	01/28/2017			(1/28/2037)	ISOTACHOPHORESIS FOR PURIFICATION OF NUCLEIC ACIDS	Purigen Biosystems, Inc.
32	BNAN-003	US	16052565	08/01/2018	11041150	44369	50310	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003AU	Australia	2018312570	08/01/2018			(8/1/2038)	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003CA	Canada	3071816	08/01/2018			(8/1/2038)	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003CN	China	2018800645559	08/01/2018	ZL201880064555.9	8/2/2022	8/1/2038	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003CNDIV	China	2022108506340	08/01/2018			(8/1/2038)	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003DIV	US	17230582	04/14/2021				SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003DIVCON	US	18231601	08/08/2023				SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.

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32	BNAN-003EP	European Patent Office	188418545	08/01/2018		(8/1/2038)	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.	
32	BNAN-003JP	Japan	2020529103	08/01/2018	7203106	12/28/2022	8/1/2038	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.
32	BNAN-003PDIW	Japan	2022207724	08/01/2018		(8/1/2038)	SYSTEMS, DEVICES, AND METHODS FOR ISOTACHOPHORESIS	Purigen Biosystems, Inc.	
33	BNAN-005WO	PCT	US2022050961	11/23/2022				FLUIDIC DEVICE WITH CAPILLARY BARRIER	Purigen Biosystems, Inc.
34	BNAN-006WO	PCT	US2023025947	6/22/2023				LYSIS BUFFERS COMPRISING CYANATE OR THIOCYANATE AND A DETERGENT	(Purigen Biosystems, Inc.) not yet recorded
34	BNAN-006	US	18212882	6/22/2023				LYSIS BUFFERS COMPRISING CYANATE OR THIOCYANATE AND A DETERGENT	(Purigen Biosystems, Inc.) not yet recorded
35	BNAN-001PRV	US	63427590	11/23/2022				TOP HAT ILLUMINATION BIOLOGICAL SAMPLE IMAGING DEVICES, AND METHODS OF USING THE SAME	(Bionano Genomics, Inc.) not yet recorded
LICENSED									
L1		US	10/484,293	07/25/2002	7,670,770	03/02/2010	03/07/2024	Nanochannel arrays and their preparation and use for high throughput macromolecular analysis	Princeton
L1		US	12/216,406	10/30/2008	8,652,828	02/18/2014	01/17/2024	Nanochannel arrays and their preparation and use for high throughput macromolecular analysis	Princeton
L2		US	10/414,620	04/16/2003	7,217,562	02/19/2004	12/13/2023	Gradient structures interfacing microfluidics and nanofluidics	Princeton
L2		US	11/536,178	09/29/2006	8,333,934	12/18/2012	12/29/2023	Gradient structures interfacing microfluidics and nanofluidics	Princeton
L2		US	13/675,685	11/13/2012	9,733,185	08/15/2017	12/12/2024	Gradient structures interfacing microfluidics and nanofluidics	Princeton
L2		US	15/664,196	07/31/2017	10,551,319	02/04/2020	06/05/2023	Gradient structures interfacing microfluidics and nanofluidics	Princeton
L2		US	16/720,205	12/19/2019				Gradient structures interfacing microfluidics and nanofluidics	Princeton
L3			11/871,016	10/11/2007	8,008,007	08/30/2011	05/26/2027	S-adenosyl-L-methionine analogs with extended activated groups for transfer by methyltransferase	Institute Biotechnology (Q Biotechnology)
L4		US	17/260,125	2021-01-13				NANOFLUIDIC ANALYTICAL DEVICES AND METHODS OF USING THEREOF	University of Kansas

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L5	US	11/093,565	03/30/20050	7,805,282	09/28/2010	12/16/2025	Process, software arrangement and computer-accessible medium for obtaining information associated with a haplotype	NYU/WARF
L5	US	12/890,464	09/24/2010	8,473,221	06/25/2013	03/30/2025	Process, software arrangement and computer-accessible medium for obtaining information associated with a haplotype	NYU/WARF
L5	US	10/553,618	11/20/2033				Process, software arrangement and computer-accessible medium for obtaining information associated with a haplotype	NYU/WARF
L6	US	11/55449	05/30/2007	8414754	4/9/2013	8/22/2031	ELECTROPHORETIC SAMPLE ANALYSIS AND APPROACH THEREFOR	National Science Foundation The Board of Trustees of Leland Stanford Junior University
L7	US	12/716142	03/02/2010	8846314	9/30/2014	12/9/2030	ISOTACHOPHORETIC FOCUSING OF NUCLEIC ACIDS	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government
L7	US	14497050	09/25/2014	9753007	9/5/2017	*3/2/2030	ISOTACHOPHORETIC FOCUSING OF NUCLEIC ACIDS	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government
L8	US	13252138	10/03/2011	9151732	10/6/2015	1/29/2033	ENHANCED ISOTACHOPHORESIS ASSAYS USING ADDITIVES WITH SPATIAL GRADIENTS	The Board of Trustees of the Leland Stanford Junior University
L8	US	14828487	08/17/2015	10132775	11/20/2018	*8/20/2032	ENHANCED ISOTACHOPHORESIS ASSAYS USING ADDITIVES WITH SPATIAL GRADIENTS	The Board of Trustees of the Leland

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L10	BNAN-007CNDIV	China	201910521030X	03/14/2014	ZL201910521030.X	06/24/2022	3/14/2034	CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007CON	US	15853370	12/22/2017	10233441	3/19/2019	3/14/2034	CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007CON2	US	16192034	11/15/2018	10787660	9/29/2020	3/14/2034	CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007CON3	US	16998839	08/20/2020				CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007EP	European Patent Office	147699581	03/14/2014				CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007GB	United Kingdom	15173644	03/14/2014	2526999	1/21/2020	3/14/2034	CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007JP	Japan	2016502964	03/14/2014	6673820	3/9/2020	3/14/2034	CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L10	BNAN-007JPDIV	Japan	2020037919	03/14/2014				CAPILLARY BARRIERS FOR STAGED LOADING OF MICROFLUIDIC DEVICES	The Board of Trustees of the Leland Stanford Junior University
L11		US	13373773	11/29/2011	8524061	9/3/2013	5/17/2032	ON-CHIP HYBRIDIZATION COUPLED WITH TTP BASED PURIFICATION FOR FAST SEQUENCE SPECIFIC IDENTIFICATION	Board of Trustees of the Leland Stanford Junior University, The
L12		US	14593925	01/09/2015	10750928	8/25/2020	10/14/2036	SIMULTANEOUS EXTRACTION AND SEPARATION OF RNA AND DNA FROM	The Board of Trustees of the

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L13		US	11880479	07/20/2007	7951278	5/31/2011	9/20/2029	METHOD OF DETECTING DIRECTLY UNDETECTABLE ANALYTES USING DIRECTLY DETECTABLE SPACER MOLECULES	Leland Stanford Junior University National Institutes of Health (NIH) U.S. Dept. of Health and Human Services (DHHS), U.S. Government
L13		US	13134165	05/31/2011	8562804	10/22/2013	*1/26/2028	FLUORESCENT FINGER PRINTS FOR INDIRECT DETECTION IN ISOTACHOPHORESIS	Board of Trustees of Leland Stanford Junior University, The
L14		US	13065168	03/14/2011	8721858	5/13/2014	11/25/2031	NON-FOCUSING TRACERS FOR INDIRECT DETECTION IN ELECTROPHORETIC DISPLACEMENT TECHNIQUES	Board of Trustees of the Leland Stanford Junior University, The
L15		US	13199895	09/12/2011	8986529	3/24/2015	9/12/2031	ISOTACHOPHORESIS HAVING INTERACTING ANIONIC AND CATIONIC SHOCK WAVES	Board of Trustees of the Leland Stanford Junior University, The
L16		US	13972655	08/21/2013	9057673	6/16/2015	1/22/2034	METHOD OF PREPARING RNA FROM RIBONUCLEASE-RICH SOURCES	The Board of Trustees of the Leland Stanford Junior University
L17		US	14450069	08/01/2014	11325123	5/10/2022	8/14/2036	FLOW REGULATION IN FLUIDIC SYSTEMS USING A PHASE-CHANGE MATERIAL AT SYSTEM PORTS	The Board of Trustees of the Leland Stanford Junior University

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Schedule III

Copyrights and Copyright Licenses

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Schedule IV

Other Intellectual Property – Domains

None.