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**PCT REQUEST**Original (for **SUBMISSION**)

<b>0</b>	<b>For receiving Office use only</b>	
<b>0-1</b>	International Application No.	PCT/US17/55653
<b>0-2</b>	International Filing Date	06 OCT 2017 (06.10.2016)
<b>0-3</b>	Name of receiving Office and "PCT International Application"	RO/US
<b>0-4</b>	<b>Form PCT/RO/101 PCT Request</b>	
<b>0-4-1</b>	Prepared Using	PCT-SAFE [EFS-Web mode] Version 3.51.077.253 MT/FOP 20170401/0.20.5.24
<b>0-5</b>	<b>Petition</b> The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
<b>0-6</b>	<b>Receiving Office (specified by the applicant)</b>	United States Patent and Trademark Office (USPTO) (RO/US)
<b>0-7</b>	<b>Applicant's or agent's file reference</b>	ILLINC346WO
<b>I</b>	<b>Title of Invention</b>	SYSTEM AND METHOD FOR SECONDARY ANALYSIS OF NUCLEOTIDE SEQUENCING DATA
<b>II</b>	<b>Applicant</b>	
<b>II-1</b>	This person is	Applicant only
<b>II-2</b>	Applicant for	All designated States
<b>II-4</b>	Name	ILLUMINA, INC.
<b>II-5</b>	Address	5200 Illumina Way San Diego, California 92122 United States of America
<b>II-6</b>	State of nationality	US
<b>II-7</b>	State of residence	US
<b>III-1</b>	<b>Applicant and/or inventor</b>	
<b>III-1-1</b>	This person is	Inventor only
<b>III-1-3</b>	Inventor for	All designated States
<b>III-1-4</b>	Name (LAST, First)	GARCIA, Francisco Jose
<b>III-1-5</b>	Address	c/o ILLUMINA, INC. 5200 Illumina Way San Diego, California 92122 United States of America

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<b>III-2</b>	<b>Applicant and/or inventor</b>	
III-2-1	This person is	<b>Inventor only</b>
III-2-3	Inventor for	<b>All designated States</b>
III-2-4	Name (LAST, First)	<b>RACZY, Come</b>
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<b>III-3</b>	<b>Applicant and/or inventor</b>	
III-3-1	This person is	<b>Inventor only</b>
III-3-3	Inventor for	<b>All designated States</b>
III-3-4	Name (LAST, First)	<b>DAY, Aaron</b>
III-3-5	Address	<b>c/o ILLUMINA, INC. 5200 Illumina Way San Diego, California 92122 United States of America</b>
<b>III-4</b>	<b>Applicant and/or inventor</b>	
III-4-1	This person is	<b>Inventor only</b>
III-4-3	Inventor for	<b>All designated States</b>
III-4-4	Name (LAST, First)	<b>CARNEY, Michael J.</b>
III-4-5	Address	<b>c/o ILLUMINA, INC. 5200 Illumina Way San Diego, California 92122 United States of America</b>
<b>IV-1</b>	<b>Agent or common representative; or address for correspondence</b>	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	<b>Agent</b>
IV-1-1	Name (LAST, First)	<b>FULLER, Michael L.</b>
IV-1-2	Address	<b>KNOBBE MARTENS OLSON &amp; BEAR LLP 2040 Main Street, Fourteenth Floor Irvine, California 92614 United States of America</b>
IV-1-3	Telephone No.	<b>(949) 760-0404</b>
IV-1-4	Facsimile No.	<b>(949) 760-9502</b>
IV-1-5	e-mail	<b>instructions@knobbe.com</b>
IV-1-5(a) )	E-mail authorization The receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority are authorized to use this e-mail address, if the Office or Authority so wishes, to send notifications issued in respect of this international application:	<b>exclusively in electronic form (no paper notifications will be sent)</b>
IV-1-6	Agent's registration No.	<b>36,516</b>

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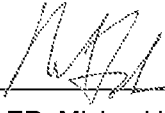
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<b>V</b>	<b>DESIGNATIONS</b>	
<b>V-1</b>	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
<b>VI-1</b>	<b>Priority claim of earlier national application</b>	
VI-1-1	Filing date	07 October 2016 (07.10.2016)
VI-1-2	Number	62/405,824
VI-1-3	Country or Member of WTO	US
<b>VI-2</b>	<b>Priority document request</b> The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	<b>VI - 1</b>
<b>VI-3</b>	<b>Incorporation by reference :</b> where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.	
<b>VII-1</b>	<b>International Searching Authority Chosen</b>	<b>European Patent Office (EPO) (ISA/EP)</b>
<b>VIII</b>	<b>Declarations</b>	Number of declarations
VIII-1	Declaration as to the identity of the inventor	-
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-

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<b>IX</b>	<b>Check list</b>	<b>Number of sheets</b>	<b>Electronic file(s) attached</b>
IX-1	Request (including declaration sheets)	<b>4</b>	✓
IX-2	Description	<b>28</b>	-
IX-3	Claims	<b>4</b>	-
IX-4	Abstract	<b>1</b>	✓
IX-5	Drawings	<b>15</b>	-
IX-7	TOTAL	<b>52</b>	
	<b>Accompanying Items</b>	<b>Paper document(s) attached</b>	<b>Electronic file(s) attached</b>
IX-8	Fee calculation sheet	✓	-
IX-20	Figure of the drawings which should accompany the abstract	6	
IX-21	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	FULLER, Michael L., Registration No.: 36,516	
X-1-3	Capacity (if such capacity is not obvious from reading the request)	Attorney of Record	

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10-1	Date of actual receipt of the purported international application	06 OCT 2017 (06.10.2017)
10-2	Drawings:	
10-2-1	Received <input checked="" type="checkbox"/>	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

**FOR INTERNATIONAL BUREAU USE ONLY**

11-1	Date of receipt of the record copy by the International Bureau	
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