

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5984512

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	SYNTHETIC GENOMICS, INC.	05/28/2019
RECEIVING PARTY DATA		
Name:	SGI-DNA, INC.	
Street Address:	11149 NORTH TORREY PINES ROAD	
City:	LA JOLLA	
State/Country:	CALIFORNIA	
Postal Code:	92037	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16799424
CORRESPONDENCE DATA		
Fax Number:	(858)638-5010	
<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>		
Phone:	8586386756	
Email:	aldon.griffis@dlapiper.com	
Correspondent Name:	LISA A. HAILE, J.D., PH.D.	
Address Line 1:	DLA PIPER LLP (US)	
Address Line 2:	4365 EXECUTIVE DRIVE, SUITE 1100	
Address Line 4:	SAN DIEGO, CALIFORNIA 92121-2133	
ATTORNEY DOCKET NUMBER:	SGIDNA1310-4	
NAME OF SUBMITTER:	LISA A. HAILE, J.D., PH.D.	
SIGNATURE:	/Lisa A. Haile/	
DATE SIGNED:	02/26/2020	
Total Attachments: 50		
source=SGIDNA1310-4 EXECUTED ASSIGNMENT Parent (Synthetic Genomics, Inc. to SGI-DNA, Inc.)#page1.tif		
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ASSIGNMENT

This assignment ("Assignment") is made by **Synthetic Genomics, Inc.** ("Assignor") a Delaware corporation and **SGI-DNA, Inc.** ("Assignee") a Delaware corporation with its principal place of business at 11149 North Torrey Pines Road, La Jolla, CA 92037, U.S.A.

Recitals

A. On the date hereof and prior to the execution and delivery of this Assignment, Assignor received a Certificate from the Secretary of State of the State of Delaware confirming Assignor's corporate status being in good standing in Delaware.

B. Assignor has agreed to sell, transfer and assign to Assignee all of the Assignors rights, title and interest to the acquired patents as outlined in **Exhibit A** ("Invention Patents"), herein incorporated by reference in its entirety.

Agreement

NOW, THEREFORE, in accordance with the obligations to assign the Invention Patents and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Assignor agrees to the foregoing and as follows:

1. The Assignor does and will sell, assign and transfer to Assignee, such Assignor's entire rights, title, and interest in and to each of the Invention Patents, including, without limitation, the rights to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.

2. The Assignor agrees that, upon request and without further compensation, but at no expense to such Assignor, such Assignor and such Assignor's legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the

Invention Patents in the United States and throughout the world, and for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Invention Patents in the United States and throughout the world. In the event that Assignee is unable for any reason to secure any of the Assignors' signatures to any document that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Invention Patents in the United States and throughout the world, or for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Invention Patents in the United States and throughout the world, each such Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents as such Assignor's agents and attorneys-in-fact to act for and on such Assignor's behalf and instead of such Assignor to execute such document, all with the same legal force and effect as if executed by such Assignor.

3. The Assignor represents and warrants that such Assignor has not granted and will not grant to others either (1) any rights, title or interest in and to any of the Invention Patents, or (2) any rights inconsistent with the rights granted herein.

4. The Assignor authorizes and requests the Assistant Commissioner for Patents of the United States and the various counterparts thereof throughout the world to issue and/or grant any Letters Patent granted for each of the Invention Patents to Assignee, its successors and assigns, as the assignee of the entire interest in such Invention Patents.

5. This Assignment constitutes the entire agreement with respect to its subject matter and supersedes all prior or contemporaneous oral or written agreements concerning such subject matter. No waiver, amendment, or modification of this Assignment shall be effective against the Assignee, unless in writing executed by a duly authorized representative of the Assignee. This Assignment shall be governed in all respects by the laws of the United States of America and by the laws of the state/province of California, as such laws are applied to agreements entered into and to be performed entirely within California between California residents. Each of the parties irrevocably consents to the exclusive personal jurisdiction of the federal and state courts located in California, as applicable, for any matter arising out of or

relating to this Assignment, except that in any action seeking to enforce any order or any judgment of such federal or state courts located in California, such personal jurisdiction shall be nonexclusive. A breach of any of the promises or agreements contained herein will result in irreparable and continuing damage to Assignee for which there will be no adequate remedy at law, and Assignee shall be entitled to injunctive relief and/or a decree of specific performance, and such other relief as may be proper.

Assignor:

Synthetic Genomics, Inc.

Signature: TT

Date: 5-28-19

Name: Robert H. Cutler

Title: General Counsel & Secretary

Exhibit A

See Attachment titled "Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc."

Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc.

Reference #	Client Reference	Status	Title	Serial #	Filed Date	Patent #	Issue Date	Expiration Date	Inventor Names
SGI1270/AU/1	JCVI-072.20AU	ISSUED	Methods For Cloning And Manipulating Genomes	2010221172	3/6/2010	2010221172	9/17/2015	3/6/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Mikkel A. Algire Sanjay Vashee
SGI1270/CA/1	JCVI-072.20CA	ISSUED	Methods For Cloning And Manipulating Genomes	2,754,212	3/5/2010	2,754,212	7/2/2016	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/CH/1	JCVI-072.20CH	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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SGI1270/CN/1	JCVI-072.20CN	ISSUED	Methods For Cloning And Manipulating Genomes	201080020174.4	3/5/2010	ZL201080020174.4	12/16/2015	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/CN/1/D1	JCVI-072.40CN	PUBLISHED	Methods For Cloning And Manipulating Genomes	201310011289.2	3/5/2010			3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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			Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/DE/1	JCVI-072.20DE	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/DK/1	JCVI-072.20DK	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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			Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/EP/1	JCVI-072.20EP	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/EP/1/D1	JCVI-072.40EP	PUBLISHED	Methods For Cloning And Manipulating Genomes	17177614.9	3/5/2010			3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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			Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/FR/1	JCVI-072.20FR	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/GB/1	JCVI-072.20GB	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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SGI1270/IL/1	JCVI-072.201L	ISSUED	Methods For Cloning And Manipulating Genomes	214828	3/5/2010	214828	5/1/2016	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/IL/1/D1	JCVI-072.401L	ISSUED	Methods For Cloning And Manipulating Genomes	242303	3/5/2010	242303	9/30/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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SGI1270/IN/1	JCVI-072.20IN	PENDING	Methods For Cloning And Manipulating Genomes	7211/CHENP/2011	3/5/2010			3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/JIP/1	JCVI-072.20IP	ISSUED	Methods For Cloning And Manipulating Genomes	2011-553154	3/5/2010	5713925	3/20/2015	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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SGI1270/JP/1/D2	JCVI-072.41JP	ISSUED	Methods For Cloning And Manipulating Genomes	2017-105163	3/5/2010	6467460	1/18/2019	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/JP/1/D3	JCVI-072.42JP	PUBLISHED	Methods For Cloning And Manipulating Genomes	2018-192236	3/5/2010			3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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SGI1270/NL/1	JCVI-072.20NL	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/SE/1	JCVI-072.20SE	ISSUED	Methods For Cloning And Manipulating Genomes	10708854.4	3/5/2010	EP2403944	6/28/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

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			Methods For Cloning And Manipulating Genomes	10201400436P	3/5/2010	10201400436P	6/15/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/SG/1/D1	JCVI-072.40SG	ISSUED	Methods For Cloning And Manipulating Genomes	10201400436P	3/5/2010	10201400436P	6/15/2017	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/SG/1/D2	JCVI-072.41SG	ALLOWED	Methods For Cloning And Manipulating Genomes	10201704868R	3/5/2010			3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter

			Methods For Cloning And Manipulating Genomes	12/7/18,911	3/5/2010	9,273,310	3/1/2016	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/US/1	JCVI-072-20US	ISSUED	Methods For Cloning And Manipulating Genomes	12/7/83,489	5/19/2010	9,267,132	2/23/2016	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
			Methods For Cloning And Manipulating Genomes	12/7/83,489	5/19/2010	9,267,132	2/23/2016	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
SGI1270/US/2	JCVI-072.50US	ISSUED	Methods For Cloning And Manipulating Genomes	12/7/83,489	5/19/2010	9,267,132	2/23/2016	3/5/2030	Gwynedd A. Benders John I. Glass Clyde A. Hutchison III Carole Lartigue Sanjay Vashee Mikkel A. Algire Hamilton O. Smith Charles E. Merryman Vladimir N. Noskov Ray-Yuan Chuang Daniel G. Gibson J. Craig Venter
			Methods For Cloning And Manipulating Genomes	15/051,463	2/23/2016			3/5/2030	Vladimir N. Noskov Ray-Yuan Chuang
SGI1270/US/3	JCVI-072.53US	PUBLISHED	Methods For Cloning And Manipulating Genomes	15/051,463	2/23/2016			3/5/2030	Vladimir N. Noskov Ray-Yuan Chuang
			Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	2009214435	2/13/2009	2009214435	8/21/2014	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/AU/3	JCVI-059.20AU	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	2009214435	2/13/2009	2009214435	8/21/2014	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter

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SGI1290/BE/3/D1	JCVI-059.40BE	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/CA/3	JCVI-059.20CA	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	2,715,586	2/13/2009	2,715,586	8/28/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/CH/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/CH/3/D1	JCVI-059.40CH	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/CN/3/D1	JCVI-059.40CN	PUBLISHED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	201710235646.1	2/13/2009			2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/DE/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/DE/3/D1	JCVI-059.40DE	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter

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SGI1290/DK/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/DK/3/D1	JCVI-059.40DK	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/EP/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/EP/3/D1	JCVI-059.40EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/FR/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/FR/3/D1	JCVI-059.40FR	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/GB/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter

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SGI1290/GB/3/D1	JCVI-059.40GB	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/IL/3	JCVI-059.20IL	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	207572	2/13/2009	207572	7/31/2017	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/IL/3/D1	JCVI-059.40IL	PENDING	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	251161	2/13/2009			2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/IN/3	JCVI-059.20IN	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	5196/CHEMP/2010	2/13/2009	289454	11/10/2017	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/IN/3/D1	JCVI-059.40IN	PUBLISHED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	201748037979	2/13/2009			2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/J/P/3	JCVI-059.20JP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	2010-546942	2/13/2009	5725540	4/10/2015	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/J/P/3/D1	JCVI-059.40JP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	2015-007054	2/13/2009	6165789	6/30/2017	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter

Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc.

SGI1290/NL/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/NL/3/D1	JCVI-059.40NL	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/SE/3	JCVI-059.20EP	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	09711127.2	2/13/2009	EP2255013	6/8/2016	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/SE/3/D1	JCVI-059.40SE	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16165528.7	2/13/2009	EP3064599	12/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/SG/3/D1	JCVI-059.40SG	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	201300777-8	2/13/2009	188101	3/12/2018	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/SG/3/D2	JCVI-059.41SG	PUBLISHED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	10201800778Q	2/13/2009			2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/US/3	JCVI-059.20US	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	12/371,543	2/13/2009	8,968,999	3/3/2015	2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter

Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc.

SGI1290/US/5	JCVI-059.41US	ISSUED	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	14/636,082	3/2/2015	10,266,865	4/23/2019	1/31/2031	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1290/US/6	JCVI-059.42US	PENDING	Methods For In Vitro Joining And Combinatorial Assembly Of Nucleic Acid Molecules	16/388,722	4/18/2019			2/13/2029	Daniel G. Gibson Hamilton O. Smith Clyde A. Hutchison III Lei Young J. Craig Venter
SGI1300/AU/3	JCVI-001.20AU	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	20062.42387	5/1/2006	20062.42387	4/21/2011	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/BR/3	JCVI-001.20BR	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	P10607661-0	5/1/2006	P10607661-0	8/8/2017	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/CA/3	JCVI-001.20CA	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	2,607,532	5/1/2006	2,607,532	3/12/2013	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/CN/3	JCVI-001.20CN	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	200680024024.4	5/1/2006	ZL200680024024.4	2/13/2013	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/DE/3	JCVI-001.20DE	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/DK/3	JCVI-001.20DK	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith

Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc.

SGI1300/EP/3	JCVI-001.20EP	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/FR/3	JCVI-001.20FR	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/GB/3	JCVI-001.20GB	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/HK/3	JCVI-001.20HK	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	08107959.6	5/1/2006	1112490	4/21/2011	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/IL/3	JCVI-001.20IL	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	187002	5/1/2006	187002	6/30/2012	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/IN/3	JCVI-001.20IN	ISSUED	Method For Amplification Of DNA Using Partially Random Primers	8526/DELNP/2007	5/1/2006	262638	9/1/2014	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/NL/3	JCVI-001.20NL	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith
SGI1300/SE/3	JCVI-001.20SE	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	06751837.3	5/1/2006	EP1885880	7/21/2010	5/1/2026	Clyde A. Hutchison III Hamilton O. Smith

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SGI1300/US/3	JCVI-001.20US	ISSUED	Amplification And Cloning Of Single DNA Molecules Using Rolling Circle Amplification	11/919,515	10/29/2007	8,497,069	7/30/2013	8/8/2027	Clyde A. Hutchison III Hamilton O. Smith
			In Vitro Recombination Method	2,618,699	8/11/2006	2,618,699	10/2/2012	8/11/2026	Lei Young Hamilton O. Smith Daniel G. Gibson
SGI1310/CA/1	JCVI-002.20CA	ISSUED							Lei Young
SGI1310/CH/1	JCVI-002.20CH	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/DE/1	JCVI-002.20DE	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/DK/1	JCVI-002.20DK	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/EP/1	JCVI-002.20EP	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/FR/1	JCVI-002.20FR	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/GB/1	JCVI-002.20GB	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/MV/1	JCVI-002.20MY	ISSUED	In Vitro Recombination Method	PI 20063912	8/11/2006	MV-143596-A	6/15/2011	8/11/2026	Lei Young Hamilton O. Smith
									Lei Young
SGI1310/NL/1	JCVI-002.20NL	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/SE/1	JCVI-002.20SE	ISSUED	In Vitro Recombination Method	06813388.3	8/11/2006	EP1915446	6/14/2017	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/US/1	JCVI-002.20US	ISSUED	In Vitro Recombination Method	11/502,746	8/11/2006	7,723,077	5/25/2010	8/11/2026	Hamilton O. Smith Daniel G. Gibson
									Lei Young
SGI1310/US/2	JCVI-002.40US	ISSUED	In Vitro Recombination Method	12/750,571	3/30/2010	9,534,251	1/3/2017	6/15/2027	Hamilton O. Smith Daniel G. Gibson

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SGI1310/US/3	JCVI-002.43US	PUBLISHED	In Vitro Recombination Method	15/385,537	12/20/2016			Lei Young Hamilton O. Smith Daniel G. Gibson
SGI1320/CA/2	JCVI-003.20CA	ISSUED	Method For In Vitro Recombination	2,618,665	8/11/2006	2,618,665	11/13/2012	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/DE/2	JCVI-003.20DE	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/DE/2/D1	JCVI-003.40DE	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/DK/2	JCVI-003.20DK	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/DK/2/D1	JCVI-003.40DK	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/EP/2	JCVI-003.20EP	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/EP/2/D1	JCVI-003.40EP	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/FR/2	JCVI-003.20FR	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/FR/2/D1	JCVI-003.40FR	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/GB/2	JCVI-003.20GB	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/GB/2/D1	JCVI-003.40GB	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/MV/2	JCVI-003.20MY	ISSUED	Method For In Vitro Recombination	PI 20063911	8/11/2006	MV-144014-A	7/29/2011	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/NL/2	JCVI-003.20NL	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/NL/2/D1	JCVI-003.40NL	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/SE/2	JCVI-003.20SE	ISSUED	Method For In Vitro Recombination	06836102.1	8/11/2006	EP1929012	10/6/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/SE/2/D1	JCVI-003.40SE	ISSUED	Method For In Vitro Recombination	10168787.9	8/11/2006	EP2239327	2/25/2015	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/US/2	JCVI-003.20US	ISSUED	Method For In Vitro Recombination	11/502,624	8/11/2006	7,776,532	8/17/2010	8/11/2026 Hamilton O. Smith Daniel G. Gibson
SGI1320/US/3	JCVI-003.30US	ISSUED	Method For In Vitro Recombination	12/820,861	6/22/2010	8,435,736	5/7/2013	11/30/2026 Hamilton O. Smith Daniel G. Gibson

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SGI1340/AU/1	JCVI-008.20AU	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	2006320275	12/4/2006	2006320275	9/30/2012	12/4/2026	Lei Young
SGI1340/CA/1	JCVI-008.20CA	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	2,642,514	12/4/2006	2,642,514	6/7/2011	12/4/2026	Lei Young
SGI1340/CH/1	JCVI-008.20CH	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/DE/1	JCVI-008.20DE	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/EP/1	JCVI-008.20EP	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/FR/1	JCVI-008.20FR	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/GB/1	JCVI-008.20GB	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/JP/1	JCVI-008.20JP	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	2008-543550	12/4/2006	4789271	7/29/2011	12/4/2026	Lei Young
SGI1340/NL/1	JCVI-008.20NL	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/SE/1	JCVI-008.20SE	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	06844856.2	12/4/2006	EP1963525	11/20/2013	12/4/2026	Lei Young
SGI1340/US/1	JCVI-008.20US	ISSUED	Synthesis Of Error - Minimized Nucleic Acid Molecules	11,633,686	12/4/2006	7,704,690	4/27/2010	12/4/2026	Lei Young
SGI1350/AU/1	JCVI-010.20AU	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	2006346810	12/22/2006	2006346810	8/15/2013	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter

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SGI1350/CA/1	JCVI-010.20CA	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	2,643,136	12/22/2006	2,643,136	4/18/2017	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/DE/1	JCVI-010.20DE	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/DK/1	JCVI-010.20DK	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/EP/1	JCVI-010.20EP	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter

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SGI1350/FR/1	JCVI-010.20FR	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/GB/1	JCVI-010.20GB	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/NL/1	JCVI-010.20NL	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/SE/1	JCVI-010.20SE	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	06851502.2	12/22/2006	EP1963515	5/28/2014	12/22/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter

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SGI1350/TW/1	JCVI-010.20TW	ISSUED	Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	095148784	12/25/2006	1472619	2/11/2015	12/25/2026	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
			Installation Of Genomes Or Partial Genomes Into Cells Or Cell-Like Systems	11/644,713	12/22/2006	9,434,974	9/6/2016	6/19/2027	John I. Glass Lei Young Carole Lartigue Nacyra Assad-Garcia Clyde A. Hutchison III Hamilton O. Smith J. Craig Venter
SGI1350/US/1	JCVI-010.20US	ISSUED							
			Synthetic Genomes	2006347573	12/6/2006	2006347573	5/2/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/AU/1	JCVI-016.20AU	ISSUED							
			Synthetic Genomes	200680052444.3	12/6/2006	ZL200680052444.3	3/12/2014	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/CN/1	JCVI-016.20CN	ISSUED							
			Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/DE/1	JCVI-016.20DE	ISSUED							
			Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/DK/1	JCVI-016.20DK	ISSUED							
			Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson

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SGI1360/EP/1	JCVI-016.20EP	ISSUED	Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/FR/1	JCVI-016.20FR	ISSUED	Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/GB/1	JCVI-016.20GB	ISSUED	Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/IL/1	JCVI-016.20IL	ISSUED	Synthetic Genomes	192041	12/6/2006	192041	11/30/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/IN/1	JCVI-016.20IN	ISSUED	Synthetic Genomes	2702/KOLNP/2008	12/6/2006	292756	2/9/2018	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/IN/1/D1	JCVI-016.40IN	PUBLISHED	Synthetic Genomes	201838001297	12/6/2006			12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/JP/1	JCVI-016.20JP	ISSUED	Synthetic Genomes	2008-544524	12/6/2006	5106412	10/12/2012	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/NL/1	JCVI-016.20NL	ISSUED	Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson

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SGI1360/SE/1	JCVI-016.20SE	ISSUED	Synthetic Genomes	06851474.4	12/6/2006	EP1968994	7/3/2013	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1360/US/1	JCVI-016.20US	ISSUED	Method Of Nucleic Acid Cassette Assembly	11/635,355	12/6/2006	10,041,060	8/7/2018	12/6/2026	J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith Daniel G. Gibson
SGI1370/DE/1	JCVI-018.20DE	ISSUED	Recombinant Hydrogen Producing Cyanobacterium And Uses Thereof	07874083.4	10/16/2007	EP2076586	9/24/2014	10/16/2027	Qing Xu Hamilton O. Smith
SGI1370/EP/1	JCVI-018.20EP	ISSUED	Recombinant Hydrogen Producing Cyanobacterium And Uses Thereof	07874083.4	10/16/2007	EP2076586	9/24/2014	10/16/2027	Qing Xu Hamilton O. Smith
SGI1370/FR/1	JCVI-018.20FR	ISSUED	Recombinant Hydrogen Producing Cyanobacterium And Uses Thereof	07874083.4	10/16/2007	EP2076586	9/24/2014	10/16/2027	Qing Xu Hamilton O. Smith
SGI1370/GB/1	JCVI-018.20GB	ISSUED	Recombinant Hydrogen Producing Cyanobacterium And Uses Thereof	07874083.4	10/16/2007	EP2076586	9/24/2014	10/16/2027	Qing Xu Hamilton O. Smith
SGI1370/US/1	JCVI-018.20US	ISSUED	Recombinant Hydrogen Producing Cyanobacterium And Uses Thereof	12/445,929	8/3/2010	8,859,744	10/14/2014	8/31/2030	Qing Xu Hamilton O. Smith

Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc.

SGI1390/AU/4	JCVI-038.20AU	ISSUED	Assembly Of Large Nucleic Acids	2008311000	10/7/2008	2008311000	4/3/2014	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/BE/4	JCVI-038.20BE	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/CA/4	JCVI-038.20CA	ISSUED	Assembly Of Large Nucleic Acids	2,701,923	10/7/2008	2,701,923	7/10/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/CN/4	JCVI-038.20CN	PUBLISHED	Assembly Of Large Nucleic Acids	200880119758.X	10/7/2008			10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith

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SGI1390/DE/4	JCVI-038.20DE	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/DK/4	JCVI-038.20DK	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/EP/4	JCVI-038.20EP	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/FR/4	JCVI-038.20FR	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith

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SGI1390/GB/4	JCVI-038.20GB	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/IL/4	JCVI-038.20IL	ISSUED	Assembly Of Large Nucleic Acids	204892	10/7/2008	204892	5/29/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/IN/4	JCVI-038.20IN	ISSUED	Assembly Of Large Nucleic Acids	2477/DELNP/2010	10/7/2008	283647	5/26/2017	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/IP/4	JCVI-038.20IP	ISSUED	Assembly Of Large Nucleic Acids	2010-528976	10/7/2008	5618413	9/26/2014	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith

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SGI1390/MV/4	JCVI-038.20MY	ISSUED	Assembly Of Large Nucleic Acids	PI 2010001512	10/7/2008	MV-161418-A	4/14/2017	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/NL/4	JCVI-038.20NL	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/SE/4	JCVI-038.20SE	ISSUED	Assembly Of Large Nucleic Acids	08838436.7	10/7/2008	EP2207899	4/18/2018	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1390/SG/4/D1	JCVI-038.40SG	ISSUED	Assembly Of Large Nucleic Acids	201208978-5	10/7/2008	186628	6/7/2016	10/7/2028	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith

Appendix A to Assignment from Synthetic Genomics, Inc. to SGI-DNA, Inc.

SGI1390/US/4	JCVI-038.20US	ISSUED	Assembly Of Large Nucleic Acids	12/24/126	10/7/2008	9,593,329	3/14/2017	10/14/2030	Daniel G. Gibson Gwynedd A. Benders Lei Young John I. Glass J. Craig Venter Clyde A. Hutchison III Hamilton O. Smith
SGI1510/AU/1	JCVI-040.20AU	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	2008254291	5/1/2008	2008254291	1/7/2016	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/BE/1	JCVI-040.20BE	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	08754990.3	5/1/2008	EP2147099	8/8/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/CN/1	JCVI-040.20CN	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	200880023057.6	5/1/2008	ZL200880023057.6	12/11/2013	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith

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SGI1510/DE/1	JCVI-040.20DE	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	08754990.3	5/1/2008	EP2147099	8/8/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/EP/1	JCVI-040.20EP	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	08754990.3	5/1/2008	EP2147099	8/8/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/FR/1	JCVI-040.20FR	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	08754990.3	5/1/2008	EP2147099	8/8/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/GB/1	JCVI-040.20GB	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	08754990.3	5/1/2008	EP2147099	8/8/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith

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SGI1510/IL/1	JCVI-040.201L	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	201835	5/1/2008	201835	11/1/2013	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/IN/1	JCVI-040.201N	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	4101/KOLNP/2009	5/1/2008	300249	8/24/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/JP/1	JCVI-040.201P	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	2010-506659	5/1/2008	5637846	10/31/2014	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/NL/1	JCVI-040.20NL	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	08754990.3	5/1/2008	EP2147099	8/8/2018	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith

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SGI1510/SG/1	JCVI-040.20SG	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	200907187-9	5/1/2008	156476	5/15/2012	5/1/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee Nina Y. Alperovich Clyde A. Hutchison III J. Craig Venter Hamilton O. Smith
SGI1510/US/1	JCVI-040.20US	ISSUED	Methods Of Genome Installation In A Recipient Host Cell	12/598,414	4/22/2010	9,481,880	11/1/2016	7/21/2028	Carole Lartigue John I. Glass Charles E. Merryman Sanjay Vashee J. Craig Venter Hamilton O. Smith Clyde A. Hutchison III Nina Y. Alperovich
SGI1550/AU/1	SGI-049.20AU	ISSUED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	2013214771	2/1/2013	2013214771	12/21/2017	2/1/2033	Daniel Gibson Nicky C. Caiazza Toby Richardson
SGI1550/AU/1/D1	SGI-049.40AU	PENDING	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	2017272206	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Caiazza Toby Richardson
SGI1550/CA/1	SGI-049.20CA	PENDING	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	2,862,149	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Caiazza Toby Richardson
SGI1550/CN/1	SGI-049.20CN	ISSUED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	201380009031.7	2/1/2013	ZL201380009031.7	10/30/2018	2/1/2033	Daniel Gibson Nicky C. Caiazza Toby Richardson

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SGI1550/EP/1	SGI-049.20EP	ALLOWED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	13/743/10.9	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Calazza Toby Richardson
SGI1550/IL/1	SGI-049.20IL	PENDING	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	233687	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Calazza Toby Richardson
SGI1550/IN/1	SGI-049.20IN	PUBLISHED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	5816/CHENP/2014	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Calazza Toby Richardson
SGI1550/JP/1/D1	SGI-049.40JP	PUBLISHED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	2017-245919	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Calazza Toby Richardson
SGI1550/SG/1/D1	SGI-049.40SG	PUBLISHED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	10201606285Y	2/1/2013			2/1/2033	Daniel Gibson Nicky C. Calazza Toby Richardson
SGI1550/US/1	SGI-049.20US	ISSUED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	13/757,633	2/1/2013	9,771,576	9/26/2017	2/1/2033	Toby H. Richardson Nicky C. Calazza Daniel G. Gibson
SGI1550/US/2	SGI-049.40US	PUBLISHED	Materials And Methods For The Synthesis Of Error-Minimized Nucleic Acid Molecules	15/667,515	8/2/2017			2/1/2033	Toby H. Richardson Nicky C. Calazza Daniel G. Gibson
SGI1600/AU/1	SGI-052.20AU	ISSUED	Digital To Biological Converter	2013302376	8/16/2013	2013302376	6/7/2018	8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/AU/1/D1	SGI-052.40AU	PENDING	Digital To Biological Converter	2018201085	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill

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SGI1600/CA/1	SGI-052.20CA	PENDING	Digital To Biological Converter	2,880,687	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/CN/1	SGI-052.20CN	PUBLISHED	Digital To Biological Converter	201380053606.5	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/CN/1/D1	SGI-052.40CN	PUBLISHED	Digital To Biological Converter	201810115909.X	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/EP/1	SGI-052.20EP	PUBLISHED	Digital To Biological Converter	13829140.6	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/IL/1	SGI-052.20IL	PENDING	Digital To Biological Converter	236966	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/IN/1	SGI-052.20IN	PUBLISHED	Digital To Biological Converter	1350/CHEMP/2015	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/JP/1	SGI-052.20JP	ALLOWED	Digital To Biological Converter	2015-527674	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/JP/1/D1	SGI-052.40JP	PENDING	Digital To Biological Converter	2019-071760	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/SG/1/D1	SGI-052.40SG	ISSUED	Digital To Biological Converter	10201701022V	8/16/2013	10201701022V	9/26/2018	8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/SG/1/D2	SGI-052.41SG	PUBLISHED	Digital To Biological Converter	10201808286T	8/16/2013			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/US/1	SGI-052.20US	ISSUED	Digital To Biological Converter	13/969,215	8/16/2013	9,718,060	8/1/2017	8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1600/US/2	SGI-052.30US	PUBLISHED	Digital To Biological Converter	15/654,306	7/19/2017			8/16/2033	J. Craig Venter Daniel Gibson John E. Gill
SGI1610/AT/1	FBI-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1133127	7/26/2006	2/18/2020	Peer F. STAHLER (or Stahler in Eng) Cord F. Stahler Manfred Muller

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SGI1610/AT/1/D1	FBT-001.40EP	ISSUED	Method For Producing Polymers	06014767.5	2/18/2000	EP1728860	1/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/AU/1	FBT-001.20AU	ISSUED	Method For Producing Polymers	2000031570	2/18/2000	767606	11/20/2003	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/CA/1	FBT-001.20CA	ISSUED	Method For Producing Polymers	2,362,939	2/18/2000	2,362,939	7/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/CH/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/CH/1/D1	FBT-001.40EP	ISSUED	Method For Producing Polymers	06014767.5	2/18/2000	EP1728860	1/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/CH/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/DE/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/DE/1/D1	FBT-001.40EP	ISSUED	Method For Producing Polymers	06014767.5	2/18/2000	EP1728860	1/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/DE/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/DK/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller

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SGI1610/EP/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/EP/1/D1	FBT-001.40EP	ISSUED	Method For Producing Polymers	06014767.5	2/18/2000	EP1728860	1/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/EP/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/FR/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/FR/1/D1	FBT-001.40EP	ISSUED	Method For Producing Polymers	06014767.5	2/18/2000	EP1728860	1/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/FR/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/GB/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/GB/1/D1	FBT-001.40EP	ISSUED	Method For Producing Polymers	06014767.5	2/18/2000	EP1728860	1/27/2010	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/GB/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/IE/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller

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SGI1610/IE/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/NL/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/NL/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/SE/1	FBT-001.20EP	ISSUED	Method For Producing Polymers	00909211.5	2/18/2000	EP1153127	7/26/2006	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/SE/1/D2	FBT-001.41EP	ISSUED	Method For Producing Polymers	10151688.8	2/18/2000	EP2175021	6/19/2013	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/US/1	FBT-001.20US	ISSUED	Method For Producing Polymers	09/869.332	7/26/2001	6,586,211	7/1/2003	2/18/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/US/2	FBT-001.40US	ISSUED	Method For Producing Polymers	10/455,369	6/6/2003	7,790,369	9/7/2010	12/5/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/US/3	FBT-001.30US	ISSUED	Method For Producing Polymers	12/400,493	3/9/2009	9,568,839	2/14/2017	4/25/2020	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1610/US/4	FBT-001.34US	ABANDONED	Method For Producing Polymers	15/426,860	2/7/2017			4/19/2019	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Manfred Muller
SGI1620/AT/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/AT/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito

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SGI1620/CH/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/CH/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/DE/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/DE/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/EP/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/EP/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/FR/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/FR/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/GB/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/GB/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/IE/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/IE/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/NL/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/NL/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito

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SGI1620/SE/1	FBT-004.20EP	ISSUED	Programmable Oligonucleotide Synthesis	07801845.4	8/23/2007	EP2057176	10/16/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/SE/1/D1	FBT-004.40EP	ISSUED	Programmable Oligonucleotide Synthesis	12163204.6	8/23/2007	EP2489671	3/25/2015	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/US/1	FBT-004.20US	ISSUED	Programmable Oligonucleotide Synthesis	12/438,425	2/23/2009	8,173,368	5/8/2012	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/US/2	FBT-004.40US	ISSUED	Programmable Oligonucleotide Synthesis	13/441,186	4/6/2012	8,367,335	2/5/2013	8/23/2027	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1620/US/3	FBT-004.41US	ISSUED	Programmable Oligonucleotide Synthesis	13/741,231	1/14/2013	9,644,225	5/9/2017	9/24/2028	Peer F. STÄHLER (or Staehler in Eng) Raphael Carapito
SGI1630/CH	FBT-002.20EP	ISSUED	Highly Parallel DNA-Synthesiser Based On Matrices	04803181.9	11/18/2004	EP1685261	3/25/2015	11/18/2024	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Markus Beier
SGI1630/DE	FBT-002.20EP	ISSUED	Highly Parallel DNA-Synthesiser Based On Matrices	04803181.9	11/18/2004	EP1685261	3/25/2015	11/18/2024	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Markus Beier
SGI1630/EP	FBT-002.20EP	ISSUED	Highly Parallel DNA-Synthesiser Based On Matrices	04803181.9	11/18/2004	EP1685261	3/25/2015	11/18/2024	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Markus Beier
SGI1630/FR	FBT-002.20EP	ISSUED	Highly Parallel DNA-Synthesiser Based On Matrices	04803181.9	11/18/2004	EP1685261	3/25/2015	11/18/2024	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Markus Beier
SGI1630/GB	FBT-002.20EP	ISSUED	Highly Parallel DNA-Synthesiser Based On Matrices	04803181.9	11/18/2004	EP1685261	3/25/2015	11/18/2024	Peer F. STÄHLER (or Staehler in Eng) Cord F. Stahler Markus Beier

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SGI1640/CH	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/DE	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/DK	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/EP	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/FR	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier

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SGI1640/GB	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/IT	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/NL	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/SE	FBI-003.20EP	ISSUED	Synthesis Of Sequence- Verified Nucleic Acids	10705856.2	2/19/2010	EP2398915	8/24/2016	2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier
SGI1640/US/1	FBI-003.30US	PUBLISHED	Synthesis Of Sequence- Verified Nucleic Acids	15/465.532	3/21/2017			2/19/2030	Peer F. STÄHLER (or Stahler in Eng) Raphael Carapito Cord F. Stahler Mark Matzas Jack T. Leonard Joachim Jaeger Markus Beier

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SGI1680/AU/1	SGI-051.20AU	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	2013359293	12/11/2013	2013359293	2/15/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/BE/1	SGI-051.20BE	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/CA/1	SGI-051.20CA	PENDING	PEG-Mediated Assembly Of Nucleic Acid Molecules	2,893,817	12/11/2013			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/CH/1	SGI-051.20CH	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/CN/1/D1	SGI-051.40CN	PENDING	PEG-Mediated Assembly Of Nucleic Acid Molecules	201910266146.3	12/11/2013			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/DE/1	SGI-051.20DE	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/DK/1	SGI-051.20DK	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/EP/1	SGI-051.20EP	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/FR/1	SGI-051.20FR	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/GB/1	SGI-051.20GB	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson

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SGI1680/IL/1	SGI-051.201L	PENDING	PEG-Mediated Assembly Of Nucleic Acid Molecules	238918	12/11/2013			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/IN/1	SGI-051.201N	PUBLISHED	PEG-Mediated Assembly Of Nucleic Acid Molecules	3633/CHENP/2015	12/11/2013			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/JP/1/D1	SGI-051.401P	PUBLISHED	PEG-Mediated Assembly Of Nucleic Acid Molecules	2018-175502	12/11/2013			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/NL/1	SGI-051.20NL	ISSUED	PEG-Mediated Assembly Of Nucleic Acid Molecules	13863073.6	12/11/2013	EP2931913	10/17/2018	12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/SG/1/D1	SGI-051.40SG	ALLOWED	PEG-Mediated Assembly Of Nucleic Acid Molecules	10201704426U	12/11/2013			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1680/US/2	SGI-051.30US	PENDING	PEG-Mediated Assembly Of Nucleic Acid Molecules	16/212.534	12/6/2018			12/11/2033	Zhiqing Qi Jun Urano Nicky C. Calazza Daniel G. Gibson
SGI1800/AU/1	SGI-074.20AU	PENDING	Tamper-Resistant Assembly For Securing Valuable Material	2015252926	5/1/2015			5/1/2035	Laurence Warden Tei Newman-Lehman Daniel Gibson
SGI1800/CA/1	SGI-074.20CA	PENDING	Tamper-Resistant Assembly For Securing Valuable Material	2,945,810	5/1/2015			5/1/2035	Laurence Warden Tei Newman-Lehman Daniel Gibson
SGI1800/CN/1	SGI-074.20CN	PUBLISHED	Tamper-Resistant Assembly For Securing Valuable Material	2015800214889	5/1/2015			5/1/2035	Laurence Warden Tei Newman-Lehman Daniel Gibson
SGI1800/EP/1	SGI-074.20EP	PUBLISHED	Tamper-Resistant Assembly For Securing Valuable Material	15786364.8	5/1/2015			5/1/2035	Laurence Warden Tei Newman-Lehman Daniel Gibson

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SGI1800/US/1	SGI-074.20US	ISSUED	Tamper-Resistant Assembly For Securing Valuable Material	14/702,378	5/1/2015	9,751,668	9/5/2017	5/6/2035	Laurence Warden Tel Newman-Lehman Daniel Gibson
SGI1800/US/2	SGI-074.30US	ISSUED	Tamper Resistant Assembly For Securing Valuable Material	15/682,288	8/21/2017	10,017,306	7/10/2018	5/1/2035	Laurence Warden Tel Newman-Lehman Daniel G. Gibson
SGI1810/AU/1	SGI-078.20AU	PENDING	Lid Mechanism	2015289674	7/15/2015			7/15/2035	Laurence Warden Scott W. Beaver Mark H. Becker
SGI1810/CA/1	SGI-078.20CA	PENDING	Lid Mechanism	2,955,188	7/15/2015			7/15/2035	Laurence Warden Scott W. Beaver Mark H. Becker
SGI1810/CN/1	SGI-078.20CN	ALLOWED	Lid Mechanism	201580038201.3	7/15/2015			7/15/2035	Laurence Warden Scott W. Beaver Mark H. Becker
SGI1810/EP/1	SGI-078.20EP	PUBLISHED	Lid Mechanism	15821717.4	7/15/2015			7/15/2035	Laurence Warden Scott W. Beaver Mark H. Becker
SGI1810/US/1	SGI-078.20US	ISSUED	Lid Mechanism	14/800,113	7/15/2015	9,446,407	9/20/2016	7/15/2035	Laurence Warden Scott W. Beaver Mark H. Becker
SGI1910/US/1	SGI-091.20US	ALLOWED	Genetically Engineered Vibrio sp. And Uses Thereof	15/367,106	12/1/2016			12/1/2036	Eric D. Heseck Christopher M. Wilson Matthew T Weinstock
SGI2050/EP/1	SGI-115.20EP	PENDING	Genetically Engineered Vibrio Sp. And Uses Thereof	17844539.1	8/25/2017			8/25/2037	Matthew T Weinstock Christopher M. Wilson
SGI2050/US	SGI-115.10PV	EXPIRED	Genetically Engineered Vibrio Sp. And Uses Thereof	62/380,341	8/26/2016			8/26/2017	Matthew T Weinstock Eric D. Heseck Christopher M. Wilson Daniel G. Gibson
SGI2050/US/1	SGI-115.20US	PUBLISHED	Genetically Engineered Vibrio Sp. And Uses Thereof	15/687,373	8/25/2017			8/25/2037	Matthew T Weinstock Christopher M. Wilson

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SGI2050/WO/1	SGI-115.20WO	EXPIRED	Genetically Engineered Vibrio Sp. And Uses Thereof	PCT/US2017/048743	8/25/2017			3/26/2019	Matthew T Weinstock Christopher M. Wilson
SGI2070/US/1	SGI-103.20US	PUBLISHED	Methods For Assembling DNA Molecules	15/839,597	12/12/2017			12/12/2037	John E. Gill Daniel G. Gibson Lixia Fu
SGI2070/WO/1	SGI-103.20WO	PUBLISHED	Methods For Assembling DNA Molecules	PCT/US2017/065877	12/12/2017			7/14/2019	John E. Gill Daniel G. Gibson Lixia Fu
SGI2110/US/1	SGI-121.20US	PENDING	Vibrio SP. Organisms With Modified Lipopolysaccharide	16/154,618	10/8/2018			10/8/2038	Matthew T Weinstock Daniel G. Gibson Daniel Strimling
SGI2110/WO/1	SGI-121.20WO	PENDING	Vibrio SP. Organisms With Modified Lipopolysaccharide	PCT/US2018/054883	10/8/2018			6/20/2020	Matthew T Weinstock Daniel G. Gibson Daniel Strimling

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