

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PATI445390

|                                                                                                                                                                                                 |                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | RELEASE OF SECURITY INTEREST |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                              |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>        |
| INNOVATUS LIFE SCIENCES LENDING FUND I, LP, AS COLLATERAL AGENT                                                                                                                                 | 08/12/2024                   |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                              |
| <b>Company Name:</b>                                                                                                                                                                            | CODEXIS, INC.                |
| <b>Street Address:</b>                                                                                                                                                                          | 200 Penobscot Drive          |
| <b>City:</b>                                                                                                                                                                                    | Redwood City                 |
| <b>State/Country:</b>                                                                                                                                                                           | CALIFORNIA                   |
| <b>Postal Code:</b>                                                                                                                                                                             | 94063                        |
| <b>PROPERTY NUMBERS Total: 15</b>                                                                                                                                                               |                              |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                |
| Application Number:                                                                                                                                                                             | 16985742                     |
| Application Number:                                                                                                                                                                             | 17196858                     |
| Application Number:                                                                                                                                                                             | 16985761                     |
| Application Number:                                                                                                                                                                             | 16985788                     |
| Application Number:                                                                                                                                                                             | 16721102                     |
| Application Number:                                                                                                                                                                             | 17814371                     |
| Application Number:                                                                                                                                                                             | 17126647                     |
| Application Number:                                                                                                                                                                             | 17186462                     |
| Application Number:                                                                                                                                                                             | 63511347                     |
| Application Number:                                                                                                                                                                             | 63486037                     |
| Application Number:                                                                                                                                                                             | 63502053                     |
| Application Number:                                                                                                                                                                             | 63502058                     |
| Application Number:                                                                                                                                                                             | 17749034                     |
| Application Number:                                                                                                                                                                             | 18363976                     |
| Application Number:                                                                                                                                                                             | 18051856                     |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                              |
| <b>Fax Number:</b>                                                                                                                                                                              | 6505657100                   |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                              |
| <b>Phone:</b>                                                                                                                                                                                   | 6505657022                   |

**Email:** kceron@sidley.com  
**Correspondent Name:** Karla Ceron  
**Address Line 1:** 1001 Page Mill Road, Building 1  
**Address Line 4:** Palo Alto, CALIFORNIA 94304

**ATTORNEY DOCKET NUMBER:** 102396-30020

**NAME OF SUBMITTER:** Karla Ceron

**SIGNATURE:** Karla Ceron

**DATE SIGNED:** 08/21/2024

**Total Attachments: 18**

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source=Innovatus\_Codexis - Partial Release of Security Interest in Patents (08.12.2024)#page18.tiff

## PARTIAL RELEASE OF SECURITY INTEREST IN PATENTS

This PARTIAL RELEASE OF SECURITY INTEREST IN PATENTS (this “**Agreement**”), dated as of August 12, 2024 is made by INNOVATUS LIFE SCIENCES LENDING FUND I, LP, as Collateral Agent (the “**Assignee**”) in favor of CODEXIS, INC., a Delaware corporation (“**Grantor**”). Capitalized terms not otherwise defined herein have the respective meanings ascribed to them in the Loan and Security Agreement, dated as of February 13, 2024 (as amended, restated, supplemented or otherwise modified from time to time, the “**Loan Agreement**”), among the Grantor, the Assignee, and certain Lenders party thereto.

WHEREAS, Grantor has granted to the Assignee a security interest in the patents described on Exhibit A attached hereto (the “**Specified Patents**”) pursuant to (i) the Loan Agreement, and (ii) that certain Intellectual Property Security Agreement, dated as of February 13, 2024, between the Assignee, as collateral agent, and the Grantor (the “**IP Security Agreement**”).

WHEREAS, Grantor has requested and the Assignee has agreed to release its security interest in the Specified Patents.

NOW, THEREFORE, the Assignee agrees that it hereby releases its security interest in the Specified Patents, and reassigns to Grantor, without warranty or recourse, all interest of the Assignee in the Specified Patents.

This Agreement and the release set forth herein shall not be deemed to release any of the Collateral Agent’s and the Lenders’ security interests in any Collateral (other than the Specified Patents) or to be a consent to any other amendment, waiver or modification of any other term or condition of the Loan Agreement, the IP Security Agreement, or any other Loan Document.

THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK (WITHOUT REGARD TO THE CONFLICT OF LAWS PRINCIPLES THAT WOULD RESULT IN THE APPLICATION OF ANY LAWS OTHER THAN THE LAWS OF THE STATE OF NEW YORK).

This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts, and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

[Signature Page Follows]

IN WITNESS WHEREOF, each of the undersigned has caused this Agreement to be duly executed and delivered as of the date first above written.

**ASSIGNEE:**

INNOVATUS LIFE SCIENCES LENDING FUND I, LP

By: ANDREW DYM  
Name: Andrew Dym  
Title: Authorized Signatory

**GRANTOR:**

CODEXIS, INC.

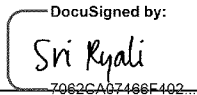
By:   
Name: Sri Ryali  
Title: CFO

Exhibit A

Specified Patents

| Country Name        | Application Number | Filing Date | Publication Number | Publication Date | Patent Number | Issue Date  | Title                              |
|---------------------|--------------------|-------------|--------------------|------------------|---------------|-------------|------------------------------------|
| Albania             | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Austria             | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Australia           | 2015370125         | 23-May-2017 |                    |                  | 2015370125    | 19-May-2022 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Australia           | 2022202939         | 03-May-2022 |                    |                  |               |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Belgium             | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Bulgaria            | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Brazil              | BR1120170133008    | 20-Jun-2017 |                    |                  |               |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Canada              | 2970638            | 12-Jun-2017 | 2970638            | 30-Jun-2016      |               |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Switzerland         | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Cyprus, Republic of | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Czech Republic      | 15874075.3         | 21-Jul-2017 | 3237621            | 01-Nov-2017      | 3237621       | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |

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|----------------------------|---------------|-------------|----------|-------------|---------|-------------|------------------------------------|
| Germany                    | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Denmark                    | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Estonia                    | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| European Patent Convention | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| European Patent Convention | 23168236.0    | 17-Apr-2023 | 4234699  | 30-Aug-2023 |         |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Spain                      | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Finland                    | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| France                     | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| United Kingdom             | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Greece                     | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Hong Kong                  | 42024087380.2 | 21-Feb-2024 | 40098554 | 05-Apr-2024 |         |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Croatia                    | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Hungary                    | 15874075.3    | 21-Jul-2017 | 3237621  | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |

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| Ireland            | 15874075.3      | 21-Jul-2017 | 3237621         | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Israel             | 252479          | 24-May-2017 | 252479          | 25-Mar-2021 | 252479  | 26-Jun-2021 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Iceland            | 15874075.3      | 21-Jul-2017 | 3237621         | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Italy              | 15874075.3      | 21-Jul-2017 | 3237621         | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan              | 2017-533453     | 20-Jun-2017 | 2018-500907     | 18-Jan-2018 | 6650943 | 23-Jan-2020 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan              | 2019-9294       | 23-Jan-2019 | 2019-76110      | 23-May-2019 |         |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan              | 2020-168384     | 05-Oct-2020 | 2021-3129       | 14-Jan-2021 |         |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan              | 2022-78184      | 11-May-2022 | 2022-097653     | 30-Jun-2022 |         |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Korea, Republic of | 10-2017-7019488 | 13-Jul-2017 | 10-2017-0093976 | 16-Aug-2017 | 2438885 | 01-Sep-2022 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Korea, Republic of | 10-2022-7029553 | 26-Aug-2022 | 10-2022-0123342 | 06-Sep-2022 |         |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Lithuania          | 15874075.3      | 21-Jul-2017 | 3237621         | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Luxembourg         | 15874075.3      | 21-Jul-2017 | 3237621         | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Latvia             | 15874075.3      | 21-Jul-2017 | 3237621         | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |

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|------------------------|------------|-------------|---------|-------------|---------|-------------|------------------------------------|
| <b>Monaco</b>          | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>North Macedonia</b> | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Malta</b>           | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Netherlands</b>     | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Norway</b>          | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>New Zealand</b>     | 732171     | 23-May-2017 |         |             | 732171  | 30-Apr-2021 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Poland</b>          | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Portugal</b>        | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Romania</b>         | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Serbia</b>          | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Sweden</b>          | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Slovenia</b>        | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Slovakia</b>        | 15874075.3 | 21-Jul-2017 | 3237621 | 01-Nov-2017 | 3237621 | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |



|                                  |                     |             |              |             |          |             |                                    |
|----------------------------------|---------------------|-------------|--------------|-------------|----------|-------------|------------------------------------|
| <b>Turkiye</b>                   | 15874075.3          | 21-Jul-2017 | 3237621      | 01-Nov-2017 | 3237621  | 19-Apr-2023 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 15/529383           | 24-May-2017 | 20170360900  | 21-Dec-2017 |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 16/985742           | 05-Aug-2020 | 20200360489  | 19-Nov-2020 | 10973888 | 13-Apr-2021 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 17/196858           | 09-Mar-2021 | 20210244804  | 12-Aug-2021 |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 18/656,340          | 06-May-2024 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 16/985761           | 05-Aug-2020 | 20200360490  | 19-Nov-2020 | 11278600 | 22-Mar-2022 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 16/985788           | 05-Aug-2020 | 20200405826  | 31-Dec-2020 | 11497798 | 15-Nov-2022 | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 62/095313           | 22-Dec-2014 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United States of America</b>  | 62/216452           | 10-Sep-2015 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Patent Cooperation Treaty</b> | PCT/US2015/063329   | 02-Dec-2015 | WO2016105889 | 30-Jun-2016 |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>United Arab Emirates</b>      | P6001039/2021       | 20-Jun-2021 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Australia</b>                 | 2019403323          | 09-Jun-2021 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Brazil</b>                    | BR 11 2021 011750 4 | 16-Jun-2021 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS |

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|------------------------------|----------------|-------------|----------------|-------------|--|--|------------------------------------|
| Canada                       | 3123598        | 15-Jun-2021 | 3123598        | 25-Jun-2020 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| China (People's Republic)    | 2019800927189  | 20-Aug-2021 | 113544268      | 22-Oct-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Colombia                     | NC2021/0009297 | 15-Jul-2021 | NC2021/0009297 | 30-Jul-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Algeria                      | 210375         | 29-Jun-2021 |                |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Eurasian Patent Organization | 202191735      | 19-Jul-2021 | 202191735      | 24-Nov-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| European Patent Convention   | 19897710.0     | 08-Jul-2021 | 3898960        | 27-Oct-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Hong Kong                    | 62022050758.1  | 29-Mar-2022 | 40062118 A     | 10-Jun-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Hong Kong                    | 62022050853.0  | 30-Mar-2022 | 40061332       | 27-May-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Indonesia                    | P00 2021 05520 | 19-Jul-2021 | 2022/02337     | 10-May-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Israel                       | 284133         | 17-Jun-2021 |                |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| India                        | 202147031859   | 15-Jul-2021 | 202147031859   | 23-Jul-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan                        | 2021-535658    | 18-Jun-2021 | 2022-515742    | 22-Feb-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan                        | 2024-70026     | 23-Apr-2024 | 2024-087015    | 28-Jun-2024 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |

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|-----------------------------------------|------------------|-----------------|------------------|-------------|----------|---------------------|-------------------------------------------|
| <b>Korea,<br/>Republic of</b>           | 10-2021-7023026  | 20-Jul-2021     | 10-2021-0106537  | 30-Aug-2021 |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Mexico</b>                           | MX/A/2021/007552 | 18-Jun-<br>2021 | MX/A/2021/007552 | 20-Sep-2021 |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Malaysia</b>                         | PI 2021003380    | 16-Jun-<br>2021 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>New Zealand</b>                      | 777049           | 09-Jun-<br>2021 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Philippines</b>                      | 1-2021-551372    | 10-Jun-<br>2021 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Saudi Arabia</b>                     | 521422325        | 17-Jun-<br>2021 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Singapore</b>                        | 11202106348Q     | 14-Jun-<br>2021 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Singapore</b>                        | 10202301741Q     | 19-Jun-<br>2023 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Thailand</b>                         | 2201000882       | 11-Feb-<br>2022 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>Ukraine</b>                          | a202104190       | 19-Jul-2021     |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>United<br/>States of<br/>America</b> | 16/721102        | 19-Dec-<br>2019 | 20200199563      | 25-Jun-2020 | 11427813 | 30-<br>Aug-<br>2022 | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>United<br/>States of<br/>America</b> | 17/814371        | 22-Jul-2022     | 20220356458      | 10-Nov-2022 |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |
| <b>United<br/>States of<br/>America</b> | 62/782553        | 20-Dec-<br>2018 |                  |             |          |                     | HUMAN ALPHA-<br>GALACTOSIDASE<br>VARIANTS |

|                              |                     |             |                   |             |  |  |                                            |
|------------------------------|---------------------|-------------|-------------------|-------------|--|--|--------------------------------------------|
| Patent Cooperation Treaty    | PCT/US2019/067493   | 19-Dec-2019 | WO2020/132252     | 25-Jun-2020 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS         |
| United Arab Emirates         | P6001180/2022       | 20-Jun-2022 |                   |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Argentina                    | P 20 01 03596       | 21-Dec-2020 | AR 120858 A1      | 23-Mar-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Australia                    | 2020408066          | 10-Jun-2022 |                   |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Brazil                       | BR 11 2022 011760 4 | 14-Jun-2022 |                   |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Canada                       | 3165484             | 20-Jun-2022 | 3165484           | 24-Jun-2021 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Chile                        | 1655-2022           | 16-Jun-2022 | 1655-2022         | 24-Feb-2023 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| China (People's Republic)    | 2020800971409       | 19-Aug-2022 | 115427574         | 02-Dec-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Colombia                     | NC2022/0010224      | 19-Jul-2022 | NC2022/0010224    | 09-Aug-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Algeria                      | 220368              | 16-Jun-2022 |                   |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Algeria                      | 221032              | 15-Dec-2022 |                   |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Eurasian Patent Organization | 202291832           | 30-Jun-2022 | 202291832         | 06-Oct-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| Ecuador                      | SENADI-2022-56585   | 19-Jul-2022 | SENADI-2022-56585 | 30-Nov-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |

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| <b>Egypt</b>                      | PCT 830/2022     | 19-Jun-2022 |                  |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>European Patent Convention</b> | 20901357.2       | 19-Jul-2022 | 4077679          | 26-Oct-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Hong Kong</b>                  | 62023071641.2    | 19-Apr-2023 | 40083239         | 23-Jun-2023 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Indonesia</b>                  | P00 2022 07729   | 20-Jul-2022 | P00 2022 07729   | 16-Dec-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Israel</b>                     | 294082           | 19-Jun-2022 |                  |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Japan</b>                      | 2022-537514      | 17-Jun-2022 | 2023-507575      | 24-Feb-2023 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Korea, Republic of</b>         | 10-2022-7023968  | 12-Jul-2022 | 10-2022-0129547  | 23-Sep-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Mexico</b>                     | MX/A/2022/007399 | 15-Jun-2022 | MX/A/2022/007399 | 20-Oct-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Malaysia</b>                   | PI 2022003109    | 14-Jun-2022 |                  |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>New Zealand</b>                | 789287           | 10-Jun-2022 |                  |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Peru</b>                       | 1133-2022        | 17-Jun-2022 | PE 20221266      | 16-Aug-2022 |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Philippines</b>                | 1-2022-500009    | 14-Jun-2022 |                  |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Saudi Arabia</b>               | 522433041        | 16-Jun-2022 |                  |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |

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|-----------------------------------------------|-------------------|-------------|--------------|-------------|----------|-------------|--------------------------------------------|
| <b>Singapore</b>                              | 11202250368N      | 13-Jun-2022 |              |             |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Thailand</b>                               | 2201003869        | 20-Jun-2022 |              |             |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Taiwan</b>                                 | 109145088         | 18-Dec-2020 | 202136506    | 01-Oct-2021 |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Ukraine</b>                                | a202202588        | 19-Jul-2022 |              |             |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>United States of America</b>               | 17/126647         | 18-Dec-2020 | 20210189365  | 24-Jun-2021 | 11970722 | 30-Apr-2024 | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>United States of America</b>               | 18/611,354        | 20-Mar-2024 |              |             |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>United States of America</b>               | 62/951625         | 20-Dec-2019 |              |             |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Vietnam</b>                                | 1-2022-04545      | 19-Jul-2022 | 93257A       | 27-Mar-2023 |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>Patent Cooperation Treaty South Africa</b> | PCT/US2020/066041 | 18-Dec-2020 | WO2021127457 | 24-Jun-2021 |          |             | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS |
| <b>United Arab Emirates</b>                   | P6001657/2022     | 24-Aug-2022 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS         |
| <b>Argentina</b>                              | P210100519        | 26-Feb-2021 | AR 121457 A1 | 08-Jun-2022 |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS         |
| <b>Australia</b>                              | 2021228689        | 05-Aug-2022 |              |             |          |             | HUMAN ALPHA-GALACTOSIDASE VARIANTS         |

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| <b>Brazil</b>                       | BR 11 2022 016990<br>6 | 25-Aug-2022 |                   |  |             |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Canada</b>                       | 3173294                | 25-Aug-2022 | 3173294           |  | 02-Sep-2021 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Chile</b>                        | 2330-2022              | 25-Aug-2022 | 2330-2022         |  | 03-Mar-2023 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>China (People's Republic)</b>    | 2021800174552          | 26-Aug-2022 | 116096898         |  | 09-May-2023 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Colombia</b>                     | NC2022/0012809         | 08-Sep-2022 | NC2022/0012809    |  | 22-Sep-2022 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Algeria</b>                      | 220678                 | 05-Sep-2022 |                   |  |             |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Eurasian Patent Organization</b> | 202292477              | 27-Sep-2022 | 202292477         |  | 14-Dec-2022 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Ecuador</b>                      | SENADI-2022-75305      | 27-Sep-2022 | SENADI-2022-75305 |  | 01-Dec-2022 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Egypt</b>                        | PCT 1185/2022          | 22-Aug-2022 |                   |  |             |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>European Patent Convention</b>   | 21761023.7             | 22-Sep-2022 | 4110926           |  | 04-Jan-2023 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Hong Kong</b>                    | 62023073181.7          | 19-May-2023 | 40085341          |  | 04-Aug-2023 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Indonesia</b>                    | P00 2022 10595         | 28-Sep-2022 | P00 2022 10595    |  | 21-Dec-2022 |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| <b>Israel</b>                       | 295818                 | 22-Aug-2022 |                   |  |             |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |



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| India              | 202247053927     | 21-Sep-2022 | 202247053927     | 30-Sep-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Japan              | 2022-551638      | 26-Aug-2022 | 2023-516301      | 19-Apr-2023 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Korea, Republic of | 10-2022-7033613  | 27-Sep-2022 | 10-2022-0146601  | 01-Nov-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Lebanon            | 486              | 26-Feb-2021 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Mexico             | MX/A/2022/010663 | 26-Aug-2022 | MX/A/2022/010663 | 20-Oct-2022 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Malaysia           | PI 2022004343    | 11-Aug-2022 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| New Zealand        | 791095           | 05-Aug-2022 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Peru               | 001808-2022      | 23-Aug-2022 | PE20230487       | 21-Mar-2023 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Philippines        | 1-2022-552047    | 08-Aug-2022 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Saudi Arabia       | 522440317        | 25-Aug-2022 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Singapore          | 11202252505Q     | 25-Aug-2022 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Thailand           | 2201005282       | 23-Aug-2022 |                  |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| Taiwan             | 110107124        | 26-Feb-2021 | 202146648        | 16-Dec-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS |



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| Ukraine                                | a202203592                      | 27-Sep-2022                |               |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS                                       |
| United States of America               | 17/186462                       | 26-Feb-2021                | 20210269787   | 02-Sep-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS                                       |
| United States of America               | 62/982949                       | 28-Feb-2020                |               |             |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS                                       |
| Vietnam                                | 1-2022-05939                    | 16-Sep-2022                | 93357 A       | 27-Mar-2023 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS                                       |
| Patent Cooperation Treaty South Africa | PCT/US2021/019811<br>2022/09934 | 26-Feb-2021<br>06-Sep-2022 | WO2021/173928 | 02-Sep-2021 |  |  | HUMAN ALPHA-GALACTOSIDASE VARIANTS<br>HUMAN ALPHA-GALACTOSIDASE VARIANTS |
| United States of America               | 18/759,313                      | 28-Jun-2024                |               |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS                               |
| United States of America               | 63/511,347                      | 30-Jun-2023                |               |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS                               |
| Patent Cooperation Treaty              | PCT/US2024/036223               | 28-Jun-2024                |               |             |  |  | ENGINEERED ACID ALPHA-GLUCOSIDASE VARIANTS                               |
| United States of America               | 63/373041                       | 19-Aug-2022                |               |             |  |  | ENGINEERED BETA-GALACTOSIDASE POLYPEPTIDES                               |
| United States of America               | 63/486,037                      | 20-Feb-2023                |               |             |  |  | ENGINEERED BETA-GALACTOSIDASE POLYPEPTIDES                               |
| Patent Cooperation Treaty              | PCT/US2023/072531               | 19-Aug-2023                | WO2024/040258 | 22-Feb-2024 |  |  | ENGINEERED BETA-GALACTOSIDASE POLYPEPTIDES                               |
| United States of America               | 63/483,010                      | 02-Feb-2023                |               |             |  |  | ENGINEERED AAV POLYPEPTIDES                                              |

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| United States of America   | 63/502,053          | 12-May-2023 |              |             |  | ENGINEERED AAV POLYPEPTIDES                |
| Patent Cooperation Treaty  | PCT/US2024/014362   | 02-Feb-2024 |              |             |  | ENGINEERED AAV POLYPEPTIDES                |
| United States of America   | 63/482,947          | 02-Feb-2023 |              |             |  | ENGINEERED GLUCOCEREBROSIDASE VARIANTS     |
| United States of America   | 63/502,058          | 12-May-2023 |              |             |  | ENGINEERED GLUCOCEREBROSIDASE VARIANTS     |
| Patent Cooperation Treaty  | PCT/US2024/014039   | 01-Feb-2024 |              |             |  | ENGINEERED GLUCOCEREBROSIDASE VARIANTS     |
| Australia                  | 2022279241          | 13-Nov-2023 |              |             |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| Brazil                     | BR 11 2023 024198 7 | 17-Nov-2023 |              |             |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| Canada                     | 3220735             | 20-Nov-2023 | 3220735      | 24-Nov-2022 |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| China (People's Republic)  | 202280036840.6      | 21-Nov-2023 | 117413057    | 16-Jan-2024 |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| European Patent Convention | 22805522.4          | 20-Dec-2023 | EP4341395    | 27-Mar-2024 |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| India                      | 202347086342        | 18-Dec-2023 | 202347086342 | 12-Jan-2024 |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| Japan                      | 2023-571886         | 20-Nov-2023 |              |             |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| Taiwan                     | 111118747           | 19-May-2022 | 202313969    | 01-Apr-2023 |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |

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| United States of America     | 17/749034           | 19-May-2022 | 20220403362    | 22-Dec-2022 |  |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| United States of America     | 63/191799           | 21-May-2021 |                |             |  |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| United States of America     | 63/274349           | 01-Nov-2021 |                |             |  |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| Patent Cooperation Treaty    | PCT/US2022/030128   | 19-May-2022 | WO2022/246126  | 24-Nov-2022 |  |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| South Africa                 | 2023/10880          | 24-Nov-2023 |                |             |  |  | ENGINEERED METHIONINE GAMMA LYASE VARIANTS |
| Australia                    | 2021216389          | 13-Jul-2022 |                |             |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| Brazil                       | BR 11 2022 015139 0 | 29-Jul-2022 |                |             |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| Canada                       | 3168922             | 25-Jul-2022 | 3168922        | 12-Aug-2021 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| China (People's Republic)    | 2021800269270       | 30-Sep-2022 | 116113691      | 12-May-2023 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| Eurasian Patent Organization | 202292265           | 02-Sep-2022 | 202292265      | 02-Dec-2022 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| European Patent Convention   | 21751078.3          | 09-Aug-2022 | 4103711        | 21-Dec-2022 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| Indonesia                    | P00 2022 09479      | 04-Sep-2022 | P00 2022 09479 | 16-Dec-2022 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| Israel                       | 295169              | 28-Jul-2022 |                |             |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| India                        | 202247048767        | 26-Aug-2022 | 202247048767   | 02-Sep-2022 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |
| Japan                        | 2022-547083         | 02-Aug-2022 | 2023-512683    | 28-Mar-2023 |  |  | ENGINEERED LEUCINE DECARBOXYLASES          |

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|---------------------------------|-------------------|-------------|------------------|-------------|--|--|--------------------------------------|
| Korea,<br>Republic of           | 10-2022-7030236   | 31-Aug-2022 | 10-2022-0137057  | 11-Oct-2022 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Mexico                          | MX/A/2022/009531  | 03-Aug-2022 | MX/A/2022/009531 | 20-Oct-2022 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Malaysia                        | PI 2022003898     | 21-Jul-2022 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| New Zealand                     | 790311            | 13-Jul-2022 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Philippines                     | 1-2022-551776     | 18-Jul-2022 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Singapore                       | 11202251267U      | 14-Jul-2022 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Singapore                       | 10202300278U      | 03-Feb-2023 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Thailand                        | 2201004856        | 03-Aug-2022 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| United<br>States of<br>America  | 17/166934         | 03-Feb-2021 | 20210238575      | 05-Aug-2021 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| United<br>States of<br>America  | 18/363,976        | 02-Aug-2023 | 20240018504      | 18-Jan-2024 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| United<br>States of<br>America  | 62/970039         | 04-Feb-2020 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Patent<br>Cooperation<br>Treaty | PCT/US2021/016450 | 03-Feb-2021 | WO2021/158686    | 12-Aug-2021 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| South Africa                    | 2022/07854        | 14-Jul-2022 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| United<br>States of<br>America  | 18/051,856        | 01-Nov-2022 | 20230277635      | 07-Sep-2023 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| United<br>States of<br>America  | 63/274395         | 01-Nov-2021 |                  |             |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |
| Patent<br>Cooperation<br>Treaty | PCT/US2022/079089 | 01-Nov-2022 | WO2023077169     | 04-May-2023 |  |  | ENGINEERED LEUCINE<br>DECARBOXYLASES |

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