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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
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EPAS ID: PAT5635207

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED   | 07/22/2019                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>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: 2</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| <b>Application Number:</b>  | 16218003                       |
| <b>PCT Number:</b>  | US2018065124                   |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  | (650)421-8350                  |
| <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>Email:</b>   | careyna.fujimoto@codexis.com   |
| <b>Correspondent Name:</b>  | CODEXIS, INC.                  |
| <b>Address Line 1:</b>  | 200 PENOBSCOT DRIVE            |
| <b>Address Line 4:</b>  | REDWOOD CITY, CALIFORNIA 94063 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | CX2-165US1/WO1                 |
| <b>NAME OF SUBMITTER:</b>   | KAMRIN T. MACKNIGHT            |
| <b>SIGNATURE:</b>   | /Kamrin T. MacKnight/          |
| <b>DATE SIGNED:</b>   | 07/24/2019                     |
| <b>Total Attachments: 1</b>   |                                |
| source=PU66478P US-PCT Assignment from GSKIPDLtd to Codexis_signed#page1.tif  |                                |

ASSIGNMENT

WHEREAS, **GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED**, hereinafter referred to as "ASSIGNOR," a company incorporated in England, whose registered office is 980 Great West Road, Brentford, Middlesex TW8 9GS, England, is the joint owner of PCT International Application PCT/US2018/065124 filed 12 December 2018 and U.S. Application 16/218003 filed on 12 December 2018 entitled "Carboxyesterase Polypeptides for Amide Coupling" and

WHEREAS, **CODEXIS, INC.**, hereinafter referred to as "ASSIGNEE," a corporation organized and existing under the laws of the State of California, whose post office address is 200 Penobscot Drive, Redwood City, California 94063, United States of America, is desirous of acquiring the entire right, title, and interest in, to and under said patent applications, and any letters patents to be issued upon these applications and the inventions covered thereby;

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, Assignor, has sold, assigned, transferred, and set over, and does hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, its entire right, title, and interest in and to these inventions, any Letters Patents to these patent applications, all divisions, and continuations thereof, and all Letters Patent which may be granted thereon, and all reissues thereof;

AND, ASSIGNOR HEREBY further covenants and agrees that it will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to it respecting these inventions, any Letters Patents of these patent applications, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to these inventions, any Letters Patents to these patent applications, in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for these inventions, these Letters Patent and these patent applications it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, **GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED** has caused these presents to be signed by its duly authorized officer.

Signature: \_\_\_\_\_

Typed Name: Edward R. GIMMI

Title: Attorney and Authorized Official

Date: July 22, 2019

IN TESTIMONY WHEREOF, **CODEXIS, INC.** has caused these presents to be signed by its duly authorized officer.

Signature: \_\_\_\_\_

Typed Name: Kamrin T. MacKnight

Title: Associate VP, Intellectual Property & Chief Patent Counsel

Date: July 9, 2019