

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

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| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                                          | NEW ASSIGNMENT                    |               |                 |                     |                                   |              |            |                |       |              |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|-----------------|---------------------|-----------------------------------|--------------|------------|----------------|-------|--------------|----------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                                     | ASSIGNMENT                        |               |                 |                     |                                   |              |            |                |       |              |          |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                      |                                   |               |                 |                     |                                   |              |            |                |       |              |          |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>SATOSHI INOUE</td> <td>02/04/2014</td> </tr> <tr> <td>JUNICHI SATO</td> <td>02/04/2014</td> </tr> </tbody> </table>                                                                                                                                                                                 |                                   | Name          | Execution Date  | SATOSHI INOUE       | 02/04/2014                        | JUNICHI SATO | 02/04/2014 |                |       |              |          |
| Name                                                                                                                                                                                                                                                                                                                                                                                                      | Execution Date                    |               |                 |                     |                                   |              |            |                |       |              |          |
| SATOSHI INOUE                                                                                                                                                                                                                                                                                                                                                                                             | 02/04/2014                        |               |                 |                     |                                   |              |            |                |       |              |          |
| JUNICHI SATO                                                                                                                                                                                                                                                                                                                                                                                              | 02/04/2014                        |               |                 |                     |                                   |              |            |                |       |              |          |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                      |                                   |               |                 |                     |                                   |              |            |                |       |              |          |
| <table border="1"> <tr> <td>Name:</td> <td>JNC CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>2-1, OTEMACHI 2-CHOME, CHIYODA-KU</td> </tr> <tr> <td>City:</td> <td>TOKYO</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>100-8105</td> </tr> </table>                                                                                               |                                   | Name:         | JNC CORPORATION | Street Address:     | 2-1, OTEMACHI 2-CHOME, CHIYODA-KU | City:        | TOKYO      | State/Country: | JAPAN | Postal Code: | 100-8105 |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                     | JNC CORPORATION                   |               |                 |                     |                                   |              |            |                |       |              |          |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                           | 2-1, OTEMACHI 2-CHOME, CHIYODA-KU |               |                 |                     |                                   |              |            |                |       |              |          |
| City:                                                                                                                                                                                                                                                                                                                                                                                                     | TOKYO                             |               |                 |                     |                                   |              |            |                |       |              |          |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                            | JAPAN                             |               |                 |                     |                                   |              |            |                |       |              |          |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                              | 100-8105                          |               |                 |                     |                                   |              |            |                |       |              |          |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                                                 |                                   |               |                 |                     |                                   |              |            |                |       |              |          |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14188838</td> </tr> </tbody> </table>                                                                                                                                                                                                                                 |                                   | Property Type | Number          | Application Number: | 14188838                          |              |            |                |       |              |          |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                             | Number                            |               |                 |                     |                                   |              |            |                |       |              |          |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                       | 14188838                          |               |                 |                     |                                   |              |            |                |       |              |          |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                                                       |                                   |               |                 |                     |                                   |              |            |                |       |              |          |
| <p>Fax Number: (202)595-0530</p> <p>Phone: 202-842-8800</p> <p>Email: dcpatentfiling@dbr.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: DRINKER BIDDLE &amp; REATH (DC)</p> <p>Address Line 1: 1500 K STREET, N.W.</p> <p>Address Line 2: SUITE 1100</p> <p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005-1209</p> |                                   |               |                 |                     |                                   |              |            |                |       |              |          |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                   | 206313-0011-00-US                 |               |                 |                     |                                   |              |            |                |       |              |          |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                        | MERCEDES K. MEYER                 |               |                 |                     |                                   |              |            |                |       |              |          |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                | /Mercedes K. Meyer/               |               |                 |                     |                                   |              |            |                |       |              |          |
| Date:                                                                                                                                                                                                                                                                                                                                                                                                     | 02/25/2014                        |               |                 |                     |                                   |              |            |                |       |              |          |

PATENT

This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 3**

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**COMBINED DECLARATION AND ASSIGNMENT**

WHEREAS I/WE, the below-named inventor(s) – hereinafter referred to as Assignor(s) – have made an invention entitled:

**CODON-OPTIMIZED GENE FOR MUTATED SHRIMP LUCIFERASE AND METHOD FOR USE THEREOF**

for which I/WE are filing an application for United States Letters Patent, the application being the one identified in the Declaration set forth below; and

WHEREAS, JNC CORPORATION, a corporation of Japan, whose post office address is 2-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8105 Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/WE, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisionals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the United States Patent and Trademark Office to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention 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 this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, and all rights to claim priority on the basis of such applications, make all rightful oaths or the like, and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, 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, I/WE have hereunto set our hand(s) in the appropriate space below.

AS A DECLARATION UNDER 37 CFR 1.63, for a utility or design application using an Application Data Sheet (37 CFR 1.76), each below-named inventor for which a signature has been provided hereby declares that:

This Declaration is directed to (please check one of the following two boxes):

- ☒ The attached application, or
- ☐ United States application or PCT international application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

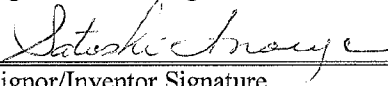
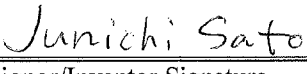
I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Note: An application data sheet (PTO/AIA/14 or equivalent) naming the entire inventive entity must accompany this form if not submitted previously.

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

|                                                                    |                                                                                                                          |                                 |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>Legal Name of Sole/First Assignor/Inventor</b><br>Satoshi INOUE | <b>Assignor/Inventor Signature</b><br> | <b>Date</b><br>February 4, 2014 |
| <b>Legal Name of Second Assignor/Inventor</b><br>Junichi SATO      | <b>Assignor/Inventor Signature</b><br> | <b>Date</b><br>February 4, 2014 |
| <b>Legal Name of Third Assignor/Inventor</b>                       | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Fourth Assignor/Inventor</b>                      | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Fifth Assignor/Inventor</b>                       | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Sixth Assignor/Inventor</b>                       | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Seventh Assignor/Inventor</b>                     | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Eighth Assignor/Inventor</b>                      | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Ninth Assignor/Inventor</b>                       | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Tenth Assignor/Inventor</b>                       | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |
| <b>Legal Name of Eleventh Assignor/Inventor</b>                    | <b>Assignor/Inventor Signature</b>                                                                                       | <b>Date</b>                     |

Name(s) of additional Assignor(s)/Inventor(s) attached: ☐ Yes ☒ No