

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2967200

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ALDIS DARZINS | 06/14/2013 |
| LANCE P. ENCELL | 05/13/2013 |
| RACHEL FRIEDMAN OHANA | 05/13/2013 |
| PAUL OTTO | 05/13/2013 |
| MONIKA G. WOOD | 05/13/2013 |
| KRIS ZIMMERMAN | 05/13/2013 |
| KEITH V. WOOD | 05/10/2013 |
| MICHAEL R. SLATER | 08/06/2013 |
| KATE QIN ZHAO | 08/07/2013 |
| GEDIMINAS VIDUGIRIS | 05/13/2013 |
| RECEIVING PARTY DATA | |
| Name: | PROMEGA CORPORATION |
| Street Address: | 2800 WOODS HOLLOW ROAD |
| City: | MADISON |
| State/Country: | WISCONSIN |
| Postal Code: | 53711-5399 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14285327 |
| CORRESPONDENCE DATA | |
| Fax Number: | (608)662-1276 |
| <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: | 6086621277 |
| Email: | dpyang@casimirjones.com |
| Correspondent Name: | CASIMIR JONES, S.C. |
| Address Line 1: | 2275 DEMING WAY |
| Address Line 2: | SUITE 310 |
| Address Line 4: | MIDDLETON, WISCONSIN 53562 |
| ATTORNEY DOCKET NUMBER: | PRMG-31684/US-5/CON |

PATENT

| | |
|--|-------------------|
| NAME OF SUBMITTER: | DAVID W. STAPLE |
| SIGNATURE: | /David W. Staple/ |
| DATE SIGNED: | 08/04/2014 |
| Total Attachments: 9 source=31684US5CON_ParentAssignmentExecuted#page1.tif source=31684US5CON_ParentAssignmentExecuted#page2.tif source=31684US5CON_ParentAssignmentExecuted#page3.tif source=31684US5CON_ParentAssignmentExecuted#page4.tif source=31684US5CON_ParentAssignmentExecuted#page5.tif source=31684US5CON_ParentAssignmentExecuted#page6.tif source=31684US5CON_ParentAssignmentExecuted#page7.tif source=31684US5CON_ParentAssignmentExecuted#page8.tif source=31684US5CON_ParentAssignmentExecuted#page9.tif | |

ASSIGNMENT

WHEREAS, WE, Aldis Darzins, Lance P. Encell, Rachel Friedman Ohana, Paul Otto, Gediminas Vidugiris, Keith V. Wood, Monika G. Wood, Kris Zimmerman, Michael R. Slater, and Kate Qin Zhao, hereinafter referred to as "ASSIGNOR," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **POLYNUCLEOTIDES ENCODING MUTANT HYDROLASE PROTEINS WITH ENHANCED KINETICS AND FUNCTIONAL EXPRESSION**

Filing Date: **16-Apr-2013** Serial No.: **13/863,924**

WHEREAS, Promega Corporation, a corporation having a place of business at 2800 Woods Hollow Road, Madison WI 53711-5399, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's name to this Assignment on the date indicated below.

Aldis Darzins 6-14-13
Aldis Darzins Date

Lance P. Encell Date

Rachel Friedman Ohana Date

Paul Otto Date

Gediminas Vidugiris Date

Keith V. Wood Date

Monika G. Wood _____ Date

Kris Zimmerman _____ Date

Michael R. Slater _____ Date

Kate Qin Zhao _____ Date

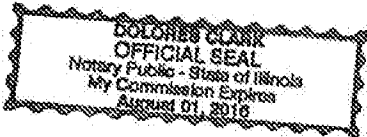
STATE OF ILLINOIS)
COUNTY OF COOK) ss.

On this 14TH day of JUNE, in the year of 2013, before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same.

[Signature]
NOTARY PUBLIC or WITNESS

MY COMMISSION EXPIRES: AUGUST 1, 2016

SEAL



ASSIGNMENT

WHEREAS, WE, Aldis Darzins, Lance P. Encell, Rachel Friedman Ohana, Paul Otto, Gediminas Vidugiris, Keith V. Wood, Monika G. Wood, Kris Zimmerman, Michael R. Slater, and Kate Qin Zhao, hereinafter referred to as "ASSIGNOR," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

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NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's name to this Assignment on the date indicated below.

Aldis Darzins Date

Rachel Friedman Ohana 5.13.13
Rachel Friedman Ohana Date

Gediminas Vidugiris
Gediminas Vidugiris Date

Lance P. Encell 5-13-13
Lance P. Encell Date

Paul Otto 2013/15/13
Paul Otto Date

Keith V. Wood
Keith V. Wood Date

Monika G. Wood 18 May 2013
Monika G. Wood Date

Kris Zimmerman 5/13/13
Kris Zimmerman Date

Michael R. Slater Date

Kate Qin Zhao Date

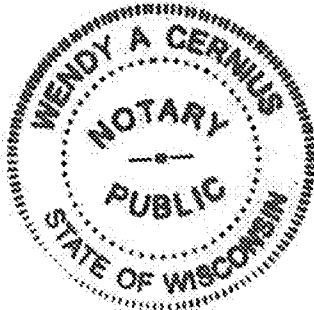
STATE OF Wisconsin ss.
COUNTY OF Dane

On this 13th day of May, in the year of 2013, before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same.

Wendy A. Cernius
NOTARY PUBLIC or WITNESS

MY COMMISSION EXPIRES: 1-8-17

SEAL



ASSIGNMENT

WHEREAS, WE, Aldis Darzins, Lance P. Encell, Rachel Friedman Ohana, Paul Otto, Gediminas Vidugiris, Keith V. Wood, Monika G. Wood, Kris Zimmerman, Michael R. Slater, and Kate Qin Zhao, hereinafter referred to as "ASSIGNOR," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **POLYNUCLEOTIDES ENCODING MUTANT HYDROLASE PROTEINS WITH ENHANCED KINETICS AND FUNCTIONAL EXPRESSION**

Filing Date: **16-Apr-2013** Serial No.: **13/863,924**

WHEREAS, Promega Corporation, a corporation having a place of business at 2800 Woods Hollow Road, Madison WI 53711-5399, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's name to this Assignment on the date indicated below.

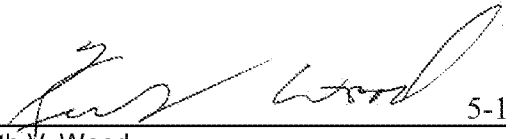
Aldis Darzins Date

Lance P. Encell Date

Rachel Friedman Ohana Date

Paul Otto Date

Gediminas Vidugiris Date



Keith V. Wood 5-10-2013
Date

Monika G. Wood Date

Kris Zimmerman Date

Michael R. Slater Date

Kate Qin Zhao Date

STATE OF)
COUNTY OF) ss.

On this 10th day of May, in the year of 2013, before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same.

Cynthia Robey-Duncomb
NOTARY PUBLIC or WITNESS

SEAL

MY COMMISSION EXPIRES: _____

Attorney Docket No.: PRMG-31684/US-4/DIV

Title of Invention: POLYNUCLEOTIDES ENCODING MUTANT HYDROLASE PROTEINS WITH ENHANCED KINETICS AND FUNCTIONAL EXPRESSION

WHEREAS, Promega Corporation, a corporation having a place of business at 2800 Woods Hollow Road, Madison WI 53711-5399, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

Lance P. Encell Date

Paul Otto Date

Keith V. Wood Date

Monika G. Wood

Date

Kris Zimmerman

Date

Michael R. Slater Aug 6, 2013
Michael R. Slater Date

Kate Qin Zhao

Date

STATE OF

COUNTY OF

ss.

On this 6th day of August, in the year of 2013, before me, the undersigned ~~Notary Public or Witness~~, personally appeared the above-named ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same.

Deather S. Gerard
NOTARY PUBLIC or WITNESS


SEAL

MY COMMISSION EXPIRES: _____

Monika G. Wood Date

Kris Zimmerman Date

Michael R. Slater Date

 2013-08-07

Kate Qin Zhao Date

STATE OF)
COUNTY OF) ss.

On this 7th day of August, in the year of 2013, before me, the undersigned ~~Notary Public~~ Witness, personally appeared the above-named ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same.


NOTARY PUBLIC ~~or~~ WITNESS

SEAL

MY COMMISSION EXPIRES: _____