

PATENT ASSIGNMENT COVER SHEET

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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>ALDIS DARZINS</td> <td>06/14/2013</td> </tr> <tr> <td>LANCE P. ENCELL</td> <td>05/13/2013</td> </tr> <tr> <td>RACHEL FRIEDMAN OHANA</td> <td>05/13/2013</td> </tr> <tr> <td>PAUL OTTO</td> <td>05/13/2013</td> </tr> <tr> <td>GEDIMINAS VIDUGIRIS</td> <td>05/13/2013</td> </tr> <tr> <td>KEITH V. WOOD</td> <td>05/10/2013</td> </tr> <tr> <td>MONIKA G. WOOD</td> <td>05/13/2013</td> </tr> <tr> <td>KRIS ZIMMERMAN</td> <td>05/13/2013</td> </tr> <tr> <td>MICHAEL R. SLATER</td> <td>08/06/2013</td> </tr> <tr> <td>KATE QIN ZHAO</td> <td>08/07/2013</td> </tr> </tbody> </table>		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	GEDIMINAS VIDUGIRIS	05/13/2013	KEITH V. WOOD	05/10/2013	MONIKA G. WOOD	05/13/2013	KRIS ZIMMERMAN	05/13/2013	MICHAEL R. SLATER	08/06/2013	KATE QIN ZHAO	08/07/2013
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<table border="1"> <tr> <td>Name:</td> <td>PROMEGA CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>2800 WOODS HOLLOW ROAD</td> </tr> <tr> <td>City:</td> <td>MADISION</td> </tr> <tr> <td>State/Country:</td> <td>WISCONSIN</td> </tr> <tr> <td>Postal Code:</td> <td>53711-5399</td> </tr> </table>		Name:	PROMEGA CORPORATION	Street Address:	2800 WOODS HOLLOW ROAD	City:	MADISION	State/Country:	WISCONSIN	Postal Code:	53711-5399												
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CORRESPONDENCE DATA																							
Fax Number:	(608)662-1276																						
Phone:	6086621277																						
Email:	alchestnut@casimirjones.com																						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>																							
Correspondent Name:	CASIMIR JONES SC																						
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Address Line 2:	STE 310
Address Line 4:	MIDDLETON, WISCONSIN 53562

ATTORNEY DOCKET NUMBER:	PRMG-31684/US-4/DIV
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NAME OF SUBMITTER:	DAVID W. STAPLE
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Signature:	/David W. Staple/
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Date:	11/26/2013
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Total Attachments: 6

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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

ASSIGNMENT

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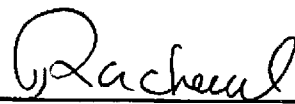
NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, 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.


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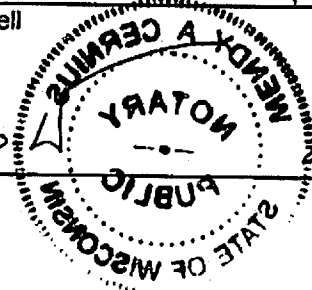
IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's name to this Assignment on the date indicated below.


Aldis Darzins _____ Date

 5-13-13
Lance P. Encell _____ Date

 5-13-13
Rachel Friedman Ohana _____ Date

 2013/25/13
Paul Otto _____ Date




Gediminas Vidugiris _____ Date

Keith V. Wood _____ Date

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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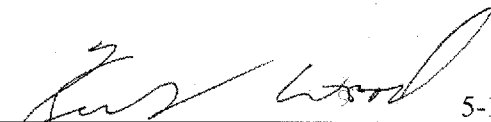
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Paul Otto Date

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 QF

COUNTY OF

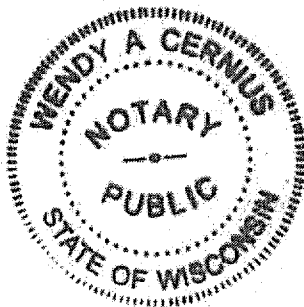
45.

On this 13th day of May, in the year of 2015, 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.

NOTARY PUBLIC or WITNESS

MY COMMISSION EXPIRES: 1-8-17

SEAL



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.

Walter 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 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.


NOTARY PUBLIC or WITNESS

SEAL

MY COMMISSION EXPIRES: _____