

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3286021

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	05/17/2010
CONVEYING PARTY DATA	
Name	Execution Date
CHENGCAI CHU	12/24/2014
CHUNLAI LI	12/24/2014
RECEIVING PARTY DATA	
Name:	INSTITUTE OF GENETICS AND DEVELOPMENTAL BIOLOGY
Street Address:	NO. 1 WEST BEICHEN ROAD
Internal Address:	CHAOYAND DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100101
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	13698370
PCT Number:	CN2011000852
CORRESPONDENCE DATA	
Fax Number:	(678)420-9301
<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:	678-420-9348
Email:	timherr@ballardspahr.com
Correspondent Name:	RICHARD T. TIMMER
Address Line 1:	999 PEACHTREE ST NE
Address Line 2:	SUITE 1000
Address Line 4:	ATLANTA, GEORGIA 30309
ATTORNEY DOCKET NUMBER:	36446.0210U1
NAME OF SUBMITTER:	RICHARD T. TIMMER
SIGNATURE:	/Richard T Timmer/
DATE SIGNED:	03/27/2015
Total Attachments: 4	

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PATENT

REEL: 035274 FRAME: 0151

WORLDWIDE ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in fulfillment of a pre-existing obligation of assignment, we, Chengcai Chu and Chunlai Li at the INSTITUTE OF GENETICS AND DEVELOPMENTAL BIOLOGY, No. 1 West Beichen Road, Chaoyang District, Beijing, Peoples Republic of China 100101, the undersigned inventors have sold and assigned, and by these presents hereby sells and assigns, as indicated below, unto

INSTITUTE OF GENETICS AND DEVELOPMENTAL BIOLOGY

No. 1 West Beichen Road
Chaoyang District
Beijing, Peoples Republic of China 100101

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the inventions in "Plastidial Nucleotide Sugar Epimerases", including all improvements to said invention ("Invention")

as set forth in this US Patent Application and the PCT Patent Application identified below,

- ☐ executed concurrently herewith
- ☐ executed on
- ☒ US Serial No. 13/698,370 filed on May 16, 2011 and;
- ☒ PCT Serial No. PCT/CN2011/000852 filed on May 16, 2011,

which claims priority to Serial No. CN201010178405.6, filed on May 17, 2010,

including all provisional, non-provisional, divisional, renewal, substitute, continuation, continuations-in-part, international and Convention applications based in whole or in part upon said Inventions or upon said Applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said Inventions or upon said Applications and every priority right that is or may be predicated upon or arise from said Inventions, said Applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said Inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; said assignment including the right to bring legal proceedings and obtain any relief to which the undersigned would have been entitled if this assignment had not been made, in respect of any infringements of the undersigned's rights in relation to said inventions, Applications and Letters Patent which occur before or after the date of this assignment; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other

right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said Inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said Inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said Inventions, and to testify in any proceedings relating to said Inventions, patent applications, Letters Patent, and to bind our heirs, legal representatives, and assigns, promptly to communicate to said Assignee or its representatives any facts known to us relating to said Inventions, to testify in any interference or legal proceedings involving said Inventions, the location of that testimony to be in the country in which we reside or in the nearest country in which such testimony is legal should our country of residence prohibit such testimony, to execute any additional papers which may be requested to confirm the right of the Assignee, its representatives, successors or assigns to secure patent or similar protection for said Inventions and to vest in the Assignee complete title to said Inventions and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

The undersigned hereby grant an authorized representative of Assignee the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office or the Patent Office of any other country for recordation of this Assignment.

This assignment is deemed to be effective at least as early as of May 17, 2010.

IN WITNESS WHEREOF, I have executed this Worldwide Assignment on the 24th day of December, 2014.

Chengcai Chu Chengcai Chu
Name of Inventor

Chengcai Chu
Signature of Inventor

Witnessed By: 童红宁
Signature

Hongning Tong
Printed Name of Witness

No.1 West Beichen Road, Chaoyang District, Beijing, China
Address of Witness

Date: December 24th, 2014

Witnessed By: 毕华
Signature

Biao Hu
Printed Name of Witness

No.1 West Beichen Road, Chaoyang District, Beijing, China
Address of Witness

Date: December 24th, 2014

IN WITNESS WHEREOF, I have executed this Worldwide Assignment on the 24th day of December, 2014.

Chunlai Li Chunlai Li
Name of Inventor

Chunlai Li
Signature of Inventor

Witnessed By: 童宁
Signature

Hongming Tong
Printed Name of Witness

No.1 West Beichen Road, Chaoyang District, Beijing, China
Address of Witness

Date: December 24th, 2014

Witnessed By: 胡斌
Signature

Bin Hu
Printed Name of Witness

No.1 West Beichen Road, Chaoyang District, Beijing, China
Address of Witness

Date: December 24th, 2014