

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| AMPLIPHI BIOSCIENCES CORPORATION | 08/10/2011 |
| RECEIVING PARTY DATA | |
| Name: | GENZYME CORPORATION |
| Street Address: | 50 BINNEY STREET |
| City: | CAMBRIDGE |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02142 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16006210 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
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| ATTORNEY DOCKET NUMBER: | 6002-US-DIV |
| NAME OF SUBMITTER: | MICHELE SILVER |
| SIGNATURE: | /Michele Silver/ |
| DATE SIGNED: | 06/03/2019 |
| Total Attachments: 2 | |
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ACKNOWLEDGEMENT OF ASSIGNMENT

Targeted Genetics Corporation, a Washington corporation ("Targeted"), now known as AmpliPhi Biosciences Corporation ("AmpliPhi"), was heretofore the owner of the entire right, title and interest in and to the following:

1) United States Patent Application Number 61/187,601 filed on June 16, 2009; now expired; and

2) Patent Cooperation Treaty Patent Application Number PCT/US2010/38897 filed on June 16, 2010; now pending;

(together with all other patent applications claiming priority thereto, patents issuing in any of the foregoing and all re-examinations, re-issues and extensions thereof, the "Assigned Patents").

By prior assignment pursuant to that certain Patent Assignment Agreement executed between Targeted and Genzyme Corporation, a Massachusetts corporation ("Genzyme") on September 8, 2009 ("Targeted-Genzyme Patent Assignment Agreement"), Targeted transferred, assigned, and conveyed to Genzyme, the entire right, title and interest in and to the Assigned Patents.

NOW THEREFORE, AmpliPhi hereby acknowledges that pursuant to and subject to the terms and conditions of the Targeted -Genzyme Patent Assignment Agreement, it has heretofore transferred, assigned and conveyed to Genzyme the entire right, title and interest to the Assigned Patents.

AmpliPhi hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and all of foreign countries to issue any Letters Patent granted among the Assigned Patents (whether on the foregoing explicitly identified by number applications or on any subsequently filed division, continuation, continuation in part, reexamination or reissue application), to Genzyme, its successors and assigns.

IN TESTIMONY WHEREOF, the undersigned has executed this instrument on the 10th day of August 2011.

By: Edward C. Cappabianca

Print name: Edward C. Cappabianca

Title: President and Chief Executive Officer, AmpliPhi Biosciences Corporation

State of ENGLAND)
County of ESSEX)

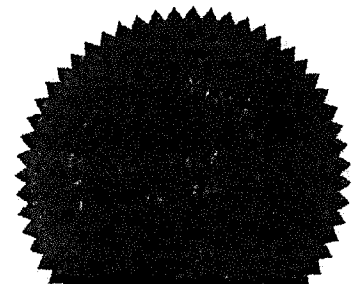
Then personally appeared before me the above-named EDWARD CAPPABIANCA and acknowledged that he executed the foregoing instrument as his free act and deed this 10th day of August, 2011

(SEAL)

J. Winward Notary Public
JUDITH WINWARD (print name)

My commission expires with life

Judith A. Winward
Notary Public
Headgate Court
Head Street
Colchester, Essex CO1 1NP



PATENT