

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>William Gleason Richards</td> <td>10/18/2011</td> </tr> <tr> <td>Hsieng Sen Lu</td> <td>10/18/2011</td> </tr> <tr> <td>Hua Zhu Ke</td> <td>10/18/2011</td> </tr> <tr> <td>Chaoyang Li</td> <td>10/18/2011</td> </tr> <tr> <td>Frederick W. Jacobsen</td> <td>10/18/2011</td> </tr> </tbody> </table>		Name	Execution Date	William Gleason Richards	10/18/2011	Hsieng Sen Lu	10/18/2011	Hua Zhu Ke	10/18/2011	Chaoyang Li	10/18/2011	Frederick W. Jacobsen	10/18/2011
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Amgen Inc.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>One Amgen Center Drive</td> </tr> <tr> <td><b>Internal Address:</b></td> <td>M/S 28-2-C</td> </tr> <tr> <td><b>City:</b></td> <td>Thousand Oaks</td> </tr> <tr> <td><b>State/Country:</b></td> <td>CALIFORNIA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>91320</td> </tr> </table>		<b>Name:</b>	Amgen Inc.	<b>Street Address:</b>	One Amgen Center Drive	<b>Internal Address:</b>	M/S 28-2-C	<b>City:</b>	Thousand Oaks	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	91320
<b>Name:</b>	Amgen Inc.												
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<b>PROPERTY NUMBERS Total: 1</b>													
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<b>PCT Number:</b>	US1158025												
<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (805)499-8011</p> <p>Email: diazs@amgen.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Amgen Inc.</p> <p>Address Line 1: One Amgen Center Drive</p> <p>Address Line 4: Thousand Oaks, CALIFORNIA 91320</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	A-1574-WO-PCT												
<b>NAME OF SUBMITTER:</b>	Randolph N. Mohr												

CH \$40.00 US1158025

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**PATENT**  
 REEL: 027139 FRAME: 0344

Total Attachments: 6

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## ASSIGNMENT

Whereas, we, William Gleason Richards, 3079 Espana Lane, Thousand Oaks, California 91362;  
Hsieng Sen Lu, 2758 Rainfield Avenue, Westlake Village, CA 91321;  
Hua Zhu Ke, 5258 Via Dolores, Newbury Park, CA 91320;  
Chaoyang Li, 97 Via Aldea, Newbury Park, CA 91320; and  
Frederick W. Jacobsen, 1168 Homestake Place, Newbury Park, CA 91320

(hereinafter referred to as ASSIGNOR), has made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled:

### DKK1 ANTIBODIES AND METHODS OF USE

which is found in:

☒ International Application No. PCT/US11/58025 filed October 27, 2011; which claims the benefit of U.S. Provisional Application No. 61/407,128 filed October 27, 2010.

☒ ASSIGNOR hereby authorizes and requests ASSIGNEE or its legal representative to insert herein above the application number and filing date of said Application when known.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by ASSIGNEE for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, and any extensions thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganisms(s) or other biological materials(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on the 18 day of October 2011

William Gleason Richards

(Name of Inventor)

[Signature]  
(Signature of Inventor)

### UNITED STATES OF AMERICA

State of California } ss:  
County of Ventura }

October 18, 2011

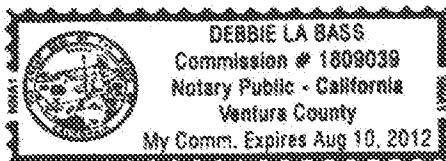
Before me, a Notary Public for Ventura County, State of California, personally appeared

William Gleason Richards

☐ personally known to me - OR - ☒ who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



[Signature]  
Notary Public  
My commission expires August 10, 2012

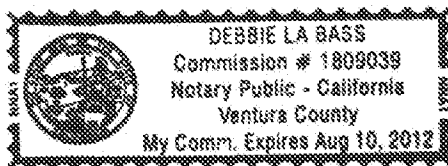
In Witness Whereof I have executed this assignment on the 18 day of October 2011Hsieng Sen Lu  
(Name of Inventor)[Signature]  
(Signature of Inventor)

## UNITED STATES OF AMERICA

State of California } ss:  
County of Ventura }October 18, 2011Before me, a Notary Public for Ventura County, State of California, personally appeared  
Hsieng Sen Lu☐ personally known to me - OR - ☒ who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that ~~he~~she executed the same in ~~his~~her authorized capacity, and that by ~~his~~her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

August 10, 2012

In Witness Whereof I have executed this assignment on the 18<sup>th</sup> day of Oct 2011Hua Zhu Ke

(Name of Inventor)

[Signature]

(Signature of Inventor)

## UNITED STATES OF AMERICA

State of California } ss:  
County of Ventura }October 18, 2011

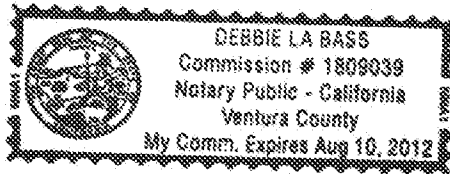
Before me, a Notary Public for Ventura County, State of California, personally appeared

Hua Zhu Ke

☐ personally known to me - OR - ☒ who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that ~~he~~/she executed the same in ~~his~~/her authorized capacity, and that by ~~his~~/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

August 10, 2012

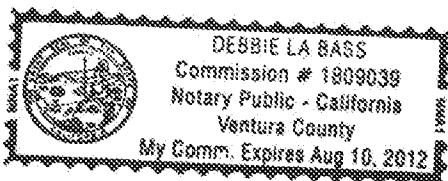
In Witness Whereof I have executed this assignment on the 18 day of Oct 2011Chaoyang Li  
(Name of Inventor)[Signature]  
(Signature of Inventor)

## UNITED STATES OF AMERICA

State of California } ss:  
County of Ventura }October 18, 2011Before me, a Notary Public for Ventura County, State of California, personally appeared  
Chaoyang Li☐ personally known to me - OR - ☒ who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Signature]  
Notary Public

My commission expires

August 10, 2012

In Witness Whereof I have executed this assignment on the 18<sup>th</sup> day of October 2011

Frederick W. Jacobsen  
(Name of Inventor)

Frederick W. Jacobsen  
(Signature of Inventor)

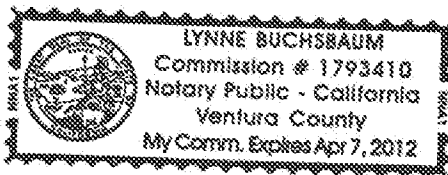
**UNITED STATES OF AMERICA**

State of California } ss:  
County of Ventura }

Oct 18 2011

Before me, a Notary Public for Ventura County, State of California, personally appeared  
Frederick W. Jacobsen

☐ personally known to me - OR - ☒ who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Lynne Buchsbaum  
Notary Public

My commission expires

April 7 2012