10-13-1999

SHEET

U.S. Department of Commerce Form PTO-1595 Patent and Trademark Office 101169857 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): Kenneth J. Rothschild AmberGen, Inc. 1106 Commonwealth Avenue Sadanand Gite Boston, MA 02215 Jerzy Olejnik Additional name(s) & address(es) attached? No Additional name(s) of conveying party(ies) attached? Nature of conveyance: Assignment Execution Date: 09/28/99 N-Terminal and C-Terminal Markers In Nascent Proteins 4. Title of Invention: Application number(s) or patent number(s): B. Patent No.(s): A. Patent Application No.(s): 09/382,950 Additional numbers attached? No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: 1 concerning document should be mailed: 7. Total fee(s): Peter G. Carroll MEDLEN & CARROLL, LLP Check(s) in the amount of \$105 enclosed (\$65 220 Montgomery Street, Suite 2200 surcharge for filing; \$40 recordation). San Francisco, California 94104 8. Deposit Account Authorization: The Commissioner is hereby authorized to charge 10/Q8/1999 MMARMOL 00000004 09382950 any additional fees or credit any overpayment to Deposit Account No. 08-1290. An originally 02 FC:581 40.00 DP executed duplicate of this transmittal is enclosed for this purpose. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correspond any attached copy is a true copy of the original document. Date: October 4, 1999 Signature: Name: Peter G. Carroll Reg. No.: 32,837 Total number of pages including cover sheet, attachments, and document: 3

1.

PATENT REEL: 010296 FRAME: 0879

Attorney Docket No.: AMBER-03879

ASSIGNMENT

WHEREAS, WE, Kenneth J. Rothschild, Sadanand Gite and Jerzy Olejnik, 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: N-Terminal and C-Terminal Markers In

Nascent Proteins

Serial No.: Filing Date:

WHEREAS, AmberGen, Inc., a Massachusetts corporation, 1106 Commonwealth Avenue, Boston, MA 02215, 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 and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does 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, 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 ASSIGNOR had this assignment and transfer not been made, to the full end 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 will 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 names to this assignment on the date indicated below.

SS.

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57ember, in the year of 1999, before me, the undersigned notary day of public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.

SEAL

PATENT REEL: 010296 FRAME: 0880

PATENT

Attorney Docket No.: AMBER-03879

RECORDATION FORM COVER SHEET U.S. Department of Commerce Form PTO-1595 Patent and Trademark Office PATENTS ONLY To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): AmberGen, Inc. Kenneth J. Rothschild Sadanand Gite 1106 Commonwealth Avenue Boston, MA 02215 Jerzy Olejnik Additional name(s) of conveying party(ies) attached? Additional name(s) & address(es) attached? No 3. Nature of conveyance: Assignment Execution Date: 09/28/99 N-Terminal and C-Terminal Markers In Nascent Proteins 4. Title of Invention: Application number(s) or patent number(s): Patent No.(s): A. Patent Application No.(s): B. 09/382,950 Additional numbers attached? No 5. Name and address of party to whom correspondence Total number of applications and patents involved: 1 6. concerning document should be mailed: 7. Total fee(s): Peter G. Carroll MEDLEN & CARROLL, LLP Check(s) in the amount of \$105 enclosed (\$65 220 Montgomery Street, Suite 2200 surcharge for filing; \$40 recordation). San Francisco, California 94104 8. Deposit Account Authorization: The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Signature: Date: October 4, 1999 Name: Peter G. Carroll Reg. No.: 32,837

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PATENT REEL: 010296 FRAME: 0881